



2020 – 2022

# Undergraduate Catalog

**EU** EDINBORO  
1857 UNIVERSITY



# EDINBORO UNIVERSITY OF PENNSYLVANIA 2020-2022 Undergraduate Catalogue

## Accreditation

### Institutional Accreditation

Edinboro University is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104 (264-284-5000). The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary and the Council for Higher Education Accreditation.

### Program Accreditations and Approvals

#### Accrediting Agency

#### Program

Accreditation Commission of Education in Nursing  
3343 Peachtree Road NE, Suite 850  
Atlanta, GA 30326  
(404) 975-5000

MS Nursing/Family Nurse Practitioner  
*Joint Program with Clarion University*

*Approved by the Pennsylvania State Board of Nursing*

Accreditation Council for Business Schools and Programs  
11520 West 119<sup>th</sup> Street  
Overland Park, KS 66213  
(913) 339-9356

AS Business Administration  
BS Business Administration

American Chemical Society  
1155 Sixteenth Street, NW  
Washington, DC 20036  
(800) 227-5558

BS Chemistry  
(ACS approved program)

Commission on Accreditation of Allied Health Education Programs  
25400 US Hwy 19 N., Suite 158  
Clearwater, FL 33763  
(727) 210-2350

MA Counseling – Art Therapy

Commission on Collegiate Nursing Education  
655 K Street NW, Suite 750  
Washington, DC 20001  
(202) 887-6791

BS in Nursing

*Approved by the Pennsylvania State Board of Nursing*

Commission on Collegiate Nursing Education  
655 K Street NW, Suite 750  
Washington, DC 20001  
(202) 887-6791

Doctor of Nursing Practice  
*Joint Program with Clarion University*

*Approved by the Pennsylvania State Board of Nursing*

Computing Accreditation Commission of ABET  
415 North Charles Street  
Baltimore, MD 21201  
(410) 347-7700

Council for Accreditation of Counseling and  
Related Educational Programs  
1001 North Fairfax Street, Suite 510  
Alexandria, VA 22314  
(703) 535-5990

Council for the Accreditation of Educator Preparation  
1140 19<sup>th</sup> St NW, Suite 400  
Washington, DC 20036  
(202) 223-0077

*Approved by the Pennsylvania Department of Education*

Council on Academic Accreditation in Audiology  
and Speech-Language Pathology  
2200 Research Boulevard  
Rockville, MD 20850-3289  
(301) 296-5700

*Approved by the Pennsylvania Department of Education*

Council on Social Work Education  
1701 Duke Street, Suite 200  
Alexandria, VA 22314  
(703) 683-8080

National Association of School Psychologists  
4340 East West Highway, Suite 402  
Bethesda, MD 20814  
(301) 657-0270

National Association of Schools of Art and Design  
11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190-5248  
(703) 437-0700

National Council for Accreditation of Teacher Education  
1140 19<sup>th</sup> Street, NW, Suite 400  
Washington, DC 20036  
(202) 223-0077

*Approved by the Pennsylvania Department of Education*

BS Computer Science, Theoretical Track

MA Clinical Mental Health/  
Clinical Rehabilitation Counseling  
MA Clinical Mental Health Counseling  
College Counseling  
School Counseling

School of Education  
All Teacher Certification and School  
Personnel Preparation Programs

MA Speech-Language Pathology

BS Social Work  
Master of Social Work

EDS Educational Specialist in  
School Psychology  
(NASP approved program)

BS Art Education  
BFA Applied Media Arts  
BFA Studio Arts  
MA Art  
MFA Studio Art  
MA Counseling – Art Therapy  
Post-Master’s Certificate, Art Therapy

School of Education  
All Teacher Certification and School  
Personnel Preparation Programs

**NON-DISCRIMINATION STATEMENT**

Edinboro University of Pennsylvania is an equal opportunity education institution and employer and will not discriminate on the basis of age, race, color, religion, ethnicity, veteran status, national origin, gender, gender identity, sex, sexual orientation or disability in its activities, programs or employment practices as required by state law, federal law, [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 the Office of Social Equity, Reeder Hall, 219 Meadville Street, Edinboro, PA 16444 (814-732-2167).

For information or assistance regarding services, activities and facilities that are accessible to and used by persons with a disability, contact the [Office for Accessibility Services](#) 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.

**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. Edinboro University is committed to ensuring compliance with Title IX and providing safe and equitable educational opportunities for all students. For information

regarding concerns of gender equity, including complaints of sexual harassment and sex/gender discrimination, contact the university Title IX Coordinator at Phone: 814-732-1564 or Email: [titleix@edinboro.edu](mailto:titleix@edinboro.edu), the Title IX Coordinator's Office is located in Room 314 Reeder Hall, 219 Meadville Street, Edinboro, PA 16444. 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.

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.

**UNIVERSITY OMBUDSPERSON**

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

The Ombudsperson will arrange a confidential meeting at a time and place convenient for anyone interested in meeting. It's helpful to make an appointment, but visitors can drop by the office without an appointment. It would be most effective to meet in person, but a meeting via telephone can also be arranged. The Ombudsperson will generally not work through email and discourages the sharing of any confidential information. Contact the University Ombudsperson at 814-732-1710.

**CONTACT:**

Beth Zewe

*University Ombudsperson*

Reeder Hall, 312 219 Meadville Street Edinboro, PA 16444

**Phone:** (814) 732-1710 **Email:** [zewe@edinboro.edu](mailto:zewe@edinboro.edu)

Office Hours: Monday-Friday, 8 a.m. – 4:30 p.m.

By appointment at other times and other locations, if necessary.

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## **Mission Statement**

The mission of Edinboro University is to develop students personally, intellectually and professionally to become contributing citizens to the Commonwealth and beyond.

## **Values Statement**

Edinboro University maintains a welcoming culture of acceptance and belonging, and is committed to:

- Fostering an appreciation for learning as a life-long process
- Supporting a community that values integrity, responsibility, respect and inclusiveness
- Encouraging innovation, creativity, exploration and reflection
- Enhancing quality in all aspects of a cohesive university experience.

## **Vision Statement**

By offering excellent programs and services for an ever-changing society, Edinboro University will be the first choice among students, employers and the community.

## **2020-2021** **(50-Minute Periods)**

### **FIRST SEMESTER (FALL 2020)**

|                                      |                     |
|--------------------------------------|---------------------|
| Classes Begin .....                  | Monday, August 17   |
| Labor Day Holiday (no classes) ..... | Monday, September 7 |
| Last Day of Classes .....            | Friday, November 20 |
| Exam Period Begins .....             | Tuesday, December 1 |
| Semester Ends .....                  | Friday, December 4  |
| Commencement .....                   | TBD                 |

### **SECOND SEMESTER (SPRING 2021)**

|                          |                             |
|--------------------------|-----------------------------|
| Classes Begin .....      | Monday, January 25          |
| Classes End .....        | Friday, April 30            |
| Exam Period Begins ..... | Tuesday, May 4              |
| Semester Ends .....      | Friday, May 7               |
| Commencement .....       | Saturday, May 8 (Tentative) |

## **2021-2022** **(50-Minute Periods)**

### **FIRST SEMESTER (FALL 2021)**

|                             |                       |
|-----------------------------|-----------------------|
| Classes Begin .....         | Monday, August 23     |
| Semester Ends .....         | Friday, December 10   |
| December Commencement ..... | Saturday, December 11 |

### **SECOND SEMESTER (SPRING 2022)**

|                     |                    |
|---------------------|--------------------|
| Classes Begin ..... | Monday, January 10 |
| Semester Ends ..... | Friday, April 29   |
| Commencement .....  | Saturday, April 30 |

# Programs of the University

## COLLEGE OF ARTS, HUMANITIES, AND SOCIAL SCIENCES Undergraduate Programs

### Associate Degree Programs

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

### Bachelor of Arts Degrees

- BA – Anthropology  
Forensic Anthropology  
BA – Art History  
BA – Criminal Justice  
BA – English  
Literature  
Writing  
BA – History  
BA – Individualized Studies  
BA – Journalism  
Digital Media Production  
BA – Political Science  
BA – Sociology  
Human Service and  
Community Development

### 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

- BSAE – Art Education  
Community Arts  
BS – Strategic Communications

## COLLEGE OF SCIENCE AND HEALTH PROFESSIONS

### Undergraduate Programs

#### Certificate Programs

- CERT – Quality Assurance Technician

### Associate Degree Programs

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

### Bachelor of Arts Degrees

- BA – Environmental Studies

### Bachelor of Science Degrees

- BS – Biology  
Pre-Veterinary  
BS – Chemistry  
Biochemistry  
Forensic Science  
Fermentation Science  
Natural Products Chemistry  
BS – Computer Science  
Applied  
Cybersecurity  
Game and Virtual  
World Development  
Network and System  
Administration  
Theoretical  
Web & Mobile Application  
Development  
BS – Environmental Biology  
Wildlife Biology  
BS – Geology  
Environmental Geology  
BS – Geographic Information  
Science  
BS – Health Sciences  
Pre-Chiropractic  
Pre-Dental  
Pre-Medical  
Pre-Occupational Therapy  
Pre-Optometry  
Pre-Physician Assistant  
Pre-Physical Therapy  
BS – Applied Technical Leadership  
Industrial  
Engineering  
Administration  
BS – Mathematics  
Actuarial Science  
BS – Data Analytics  
BS – Medical Technology  
BS – Physics  
Cooperative Engineering  
Physics  
Materials Science  
BS – Psychology  
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 – Accounting  
BS – Business Administration  
Comprehensive Business  
Admin.  
Finance  
Intelligent Enterprise  
International Business  
Personal Financial Planning  
Marketing  
BS – Economics

## SCHOOL OF EDUCATION Undergraduate Programs

### Associate Degrees

- AS – Pre-School Education

### Bachelor of Science Degrees

- BS – Exercise Science  
BS – Health & Wellness Studies  
BS – Sport & Recreation  
Management

### Bachelor of Science in Education Degrees

- BS in Ed. – Early Childhood Education  
BS in Ed. – Early Childhood Education  
& Deaf Education  
BS in Ed. – Early Childhood Education  
(P-4) and Special  
Education (P-8)  
BS in Ed. – Middle Level Education  
English/Language Arts/  
Reading  
English/Language Arts/  
Reading and Special  
Education (PK-8)  
Math and English/Lang  
Arts/Reading  
Math and English/Lang  
Arts/Reading and Special  
Education (PK-8)  
Math and Science  
Math and Science and  
Special Education (PK-8)  
Math and Social Studies  
Math and Social Studies and  
Special Education (PK-8)  
Mathematics  
Mathematics and Special  
Education (PK-8)  
Science



|           |  |     |   |   |  |
|-----------|--|-----|---|---|--|
|           | Science and Special Education (PK-8)                               | MA  | – | Counseling  | Institutional Certificate – Conflict Management (Gainful Employment Information) 2 |
|           | Science and English/Lang Arts/Reading                              |     |   | Art Therapy   |  |
|           | Science and English/Lang Arts/Reading and Special Education (PK-8) |     |   | Clinical Mental Health  |  |
|           | Science and Social Studies   | MA  | – | Clinical Mental Health/ Clinical Rehabilitation   | Reading Specialist Certificate (Gainful Employment information) 2                  |
|           | Science and Social Studies and Special Education (PK-8)            | MBA | – | College School  | School Guidance Counselor Certificate (Gainful Employment information) 1           |
|           | Social Studies   | MED | – | Speech-Language Pathology   | Post Master's Licensure Preparation 1  |
|           | Social Studies and Special Education (PK-8)                        | MED | – | Business  |  |
| BS in Ed. | – Secondary Education  |     |   | Early Childhood Education 2   |  |
|           | Biology  |     |   | Teacher Leadership English  |  |
|           | Chemistry  |     |   | ESL Specialist  |  |
|           | Comprehensive English  | MED | – | Online Instruction  | <b>Post-Baccalaureate Teacher Certification*</b>                                   |
|           | Mathematics  | MED | – | Social Studies  | Biology  |
|           | Physics  |     |   | Teacher Certification   | Chemistry  |
|           | Social Studies   |     |   | Educational Psychology 2  | Comprehensive English  |
| BS in Ed. | – Secondary Education  |     |   | Reading 2   | Early Childhood Education  |
|           | Biology/Special Education 7-12                                     |     |   | Dyslexia Interventions  | Biology/Special Education 7-12   |
|           | Chemistry/Special Education 7-12                                   |     |   | Special Education 2   | Chemistry/Special Education 7-12   |
|           | Comprehensive English/ Special Education 7-12                      |     |   | Autism  | Comprehensive English/Special Education 7-12                                       |
|           | Mathematics/Special Education 7-12                                 |     |   | Behavior Management   | Mathematics/Special Education 7-12   |
|           | Physics/Special Education 7-12                                     |     |   | Fine Arts   | Physics/Special Education 7-12   |
|           | Social Studies/Special Education 7-12                              | MFA | – | Ceramics  | Social Studies/Special Education 7-12  |
| BS in     | Health and Physical Education                                      |     |   | Jewelry/Metalsmithing   | ESL Specialist   |
|           | Teacher Certification  |     |   | Painting  | Health and Physical Education  |
|           |  |     |   | Printmaking   | Mathematics  |
|           |  |     |   | Sculpture   | Middle Level - English   |
|           |  |     |   | Nursing (in consortium with Clarion University) 3   | Middle Level – Mathematics   |
|           |  |     |   | Family Nurse Practitioner   | Middle Level – Science   |
|           |  |     |   | Post-master's Family Nurse Practitioner Certificate (in consortium with Clarion University) 3 | Middle Level – Social Studies  |
|           |  |     |   | Social Work 2   | Middle Level – English and Mathematics   |
|           |  |     |   | PA Principal K-12   | Middle Level – English and Science   |
|           |  |     |   | Post-master's Certificate (Gainful Employment information) 1, 2                               | Middle Level – Mathematics and Science   |
|           |  |     |   | Supervisor of Special Education   | Middle Level – Mathematics and Social Studies                                      |
|           |  |     |   | Post-master's Certificate (Gainful Employment information) 1, 2                               | Middle Level – Science and Social Studies  |
|           |  |     |   | Letter of Eligibility for Superintendents   | Physics  |
|           |  |     |   | Post-master's Certificate (Gainful Employment information) 1, 2                               | Social Studies   |

## SCHOOL OF GRADUATE STUDIES

|     |   |  |
|-----|---|--|
| DNP | – | Doctor of Nursing Practice (in consortium with Clarion University) 3 |
| EDS | – | Educational Specialist in School Psychology                          |
| MA  | – | Art Studio Art Art Education 2                                       |
| MA  | – | Communication Studies 2 Internship Non-Internship                    |

\*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.

1 post master's program  
2 program offered online  
3 program offered online in consortium with Clarion University

# GOVERNOR OF PENNSYLVANIA

The Honorable Tom Wolf

## PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION

Dr. Daniel Greenstein, *Chancellor*

### BOARD OF GOVERNORS

|                                    |  |
|------------------------------------|--|
| Cynthia D. Shapira, <i>Chair</i>   | Thomas S. Muller                       |
| David M. Maser, <i>Vice Chair</i>  | Noe Ortega (Designee of Sec. Rivera)   |
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| Audrey F. Bronson                  | Sen. Judith L. Schwank                 |
| Nicole Dunlop                      | Meg Snead (Designee of Gov. Wolf)      |
| Alex Fefolt                        | Stephen L. Washington, Jr.             |
| Donald E. Houser Jr.               | Neil R. Weaver                         |
| Sen. Scott Martin                  | Governor Tom Wolf                      |
| Marian D. Moskowitz                | Janet L. Yeomans                       |

## EDINBORO UNIVERSITY OF PENNSYLVANIA

Dr. Guiyou Huang, *President*

### COUNCIL OF TRUSTEES

|   |   |
|---|---|
| Ms. Barbara C. Chaffee, <i>Chair</i>                  | Mr. Kyle Hurysz, <i>Student Trustee</i> |
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| Dr. Daniel Greenstein, <i>Chancellor (ex officio)</i> | Mr. Robert J. Lowther, Jr.              |
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### EXECUTIVE LEADERSHIP TEAM

Dr. Guiyou Huang, *President*

|  |
|--|
| Dr. Michael Hannan, <i>Provost and Vice President for Academic Affairs</i>                                     |
| Mr. John Hynes, <i>Vice President for Finance and Administration</i>   |
| Ms. Angela Burrows, <i>Vice President for Marketing and Communications</i>                                     |
| Dr. William Edmonds, <i>Vice President for Enrollment Management</i>   |
| Ms. Michelle Ritzel, <i>Interim Dean of Student Engagement</i>   |
| Ms. Amanda Sissem, <i>Interim Assistant Vice President for Advancement &amp; Director of Alumni Engagement</i> |

### PRESIDENT'S EXECUTIVE COUNCIL

|  |
|--|
| Dr. Michael Hannan, <i>Provost and Vice President for Academic Affairs</i>                                     |
| Mr. John Hynes, <i>Vice President for Finance and Administration</i>   |
| Ms. Angela Burrows, <i>Vice President for Marketing and Communications</i>                                     |
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| Dr. Philomena Gill, <i>Assistant Vice President for Academic &amp; Student Services</i>                        |
| Dr. Erinn Lake, <i>Dean, School of Education; Executive Director, School of Graduate Studies</i>               |
| Dr. Scott Miller, <i>Dean, School of Business; Dean, College of Arts, Humanities &amp; Social Sciences</i>     |
| Dr. Terrence Mitchell, <i>Chief Diversity and Inclusion Officer</i>  |
| Dr. Denise Ohler, <i>Dean, College of Science &amp; Health Professions</i>                                     |
| Mr. Wayne Patterson, <i>Director of Human Resources &amp; Faculty Relations</i>                                |
| Ms. Michelle Ritzel, <i>Interim Dean of Student Engagement</i>   |
| Dr. Katherine Robbins, <i>Director of Athletics</i>  |
| Ms. Amanda Sissem, <i>Interim Assistant Vice President for Advancement &amp; Director of Alumni Engagement</i> |
| Dr. Brian Zimmerman, <i>Chairperson of the Geosciences Department</i>  |

## President's Message

Dear Students:

Welcome to Edinboro University, where you have chosen to pursue your education and shape the future of your career. Edinboro University has served our students and the region with high-quality academic programs for more than 160 years, with an impressive record of many successful graduates as artists, educators, leaders, and health professionals, among others. Although the institution has evolved significantly since its founding as a private training academy for teachers, we are a forward-looking university that honors our history and traditions by continuing to provide the outstanding instruction, co-curricular activities, and other opportunities that will prepare you for a rewarding career and fulfilling life.

At Edinboro, you will find engaging and challenging academic programs, outstanding and caring faculty, dedicated staff, and state-of-the-art learning environments, all of which contribute to evidence-based, outcomes-oriented learning. Beyond the classroom, you will have access to a wide range of activities, including high-impact experiential learning opportunities (local and global) that will broaden your perspective, hone your leadership skills, foster both independence and collaboration, and allow you to fully participate in the Edinboro University community.

I am confident that in four years — when you complete your studies — you will be well prepared in your field of study with rich knowledge deeply rooted in a strong liberal arts foundation that enhances your problem-solving, critical-thinking, reasoning, and interpersonal and communication skills. You will find evidence of this preparation throughout the pages of this catalog.

All of us at Edinboro — faculty, staff, administration, and your fellow students — are committed to your success as a student and person. That commitment is reflected in our academic advising, service, tutoring and academic support, and a community that cares about you as an individual. We will challenge you and support you, while also expecting you to be fully invested in reaching your goals.

I am delighted that you have chosen Edinboro University as your career launch pad. Student success is our business — we are student-centered, we are here for you — for those who strive, who persist, who persevere. You will thrive here and emerge as a fully educated person prepared to serve your communities and the broader world that will benefit from your talents and contributions!

Sincerely,

Guiyou Huang, Ph.D.  
President



## President's Expectations for Student Services

Edinboro University is committed to ensuring the highest quality of service to its students. As president, I am keenly interested in the quality of the student campus experience and student success, and therefore want to share my strong expectations of all University faculty and staff in this critical area. Consistent with our institutional values, these expectations support our commitment to providing a welcoming, attentive and supportive environment for all students in a community that values integrity, responsibility, respect and inclusiveness.

Edinboro University and its employees provide all students with a range of services to assist them in reaching their educational and professional goals, including:

- Effective academic and career advising and support and access to technology and digital resources
- Assistance and support with financial aid and billing, registration and scheduling, career development, academic support and study abroad
- Support and guidance in physical and mental health and wellness, student safety and fulfilling campus and residential life experiences

All Edinboro University personnel are expected to be helpful, respectful and constructive in all communications and interactions with students.

All campus offices and personnel are expected to make every effort to respond to student inquiries and requests immediately, if possible. Two to three business days is a reasonable period of time if the response cannot be immediate.

All departments and offices are expected to regularly evaluate their policies and processes from a student perspective and adjust them as needed to ensure that services and resources are being provided in the clearest, most accessible and most supportive way.

Edinboro University and its various units are expected to proactively seek student feedback through surveys, focus groups and other methods and to take timely action to improve the student experience based on that feedback.

These expectations will be shared with all new employees as part of new employee orientation to ensure knowledge of these expectations and to promote discussion of them regarding employee engagement with students.

These expectations will be shared on a periodic basis with all employees for refreshment/reinforcement.

In cases where there are complaints or concerns raised or observed with regard to meeting the expectations, the employee's supervisor will be expected to address such concerns through discussion with the employee and with reference to these expectations. Repeated concerns may be elevated to a higher-level supervisor for intervention with the employee.

## 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 Enrollment Management.....               | 732-2761              |
| Vice President for Finance and Administration .....         | 732-2585              |
| Vice President for Marketing and Communications.....        | 732-2193              |
| Vice President for University Advancement.....              | 732-2992              |
| Dean of School of Business .....                            | 732-2460              |
| 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 Student Engagement.....                             | 732-2313              |

### Academic Departments

|   |          |
|---|----------|
| Art.....  | 732-2406 |
| Biology and Health Sciences .....                                 | 732-2500 |
| Business and Economics.....                                       | 732-2407 |
| Chemistry.....  | 732-2485 |
| Communication, Journalism and Media .....                         | 732-2444 |
| Communication Sciences and Disorders .....                        | 732-2433 |
| Counseling, School Psychology and Special Education.....          | 732-2287 |
| Criminal Justice, Anthropology, and Forensic Studies .....        | 732-2409 |
| Early Childhood and Reading.....                                  | 732-2750 |
| Middle and Secondary Education and Educational<br>Leadership..... | 732-2830 |
| English and Philosophy.....                                       | 732-2736 |
| Geosciences.....  | 732-2529 |
| Health and Physical Education .....                               | 732-2502 |
| History, Politics, Languages and Cultures .....                   | 732-2575 |
| Mathematics and Computer Science.....                             | 732-2760 |
| Music and Theatre.....  | 732-2555 |
| Nursing.....  | 732-2900 |
| Physics and Technology.....                                       | 732-2592 |
| Psychology.....   | 732-2774 |
| Social Work.....  | 732-2013 |
| Sociology .....   | 732-2573 |

### Other Offices

|   |          |
|---|----------|
| Admissions.....                         | 732-2761 |
| Affirmative Action .....                | 732-2167 |
| Alumni .....                            | 732-2715 |
| Bookstore .....                         | 732-2456 |
| Center for Career Services .....        | 732-2781 |
| Continuing Education .....              | 732-2544 |
| Dining Services.....                    | 732-2635 |
| Financial Aid.....                      | 732-3500 |
| Global Education Office .....           | 732-2770 |
| Graduate Studies .....                  | 732-2856 |
| Health Center .....                     | 732-2743 |
| Information Technology Services.....    | 732-2931 |
| Library.....                            | 732-2273 |
| Office for Accessibility Services.....  | 732-2462 |
| Office for Adult Student Services ..... | 732-2701 |
| 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 Accounts Office .....           | 732-3502 |
| Student Government .....                | 732-2910 |

## Edinboro At A Glance

A comprehensive university with a strong tradition in quality liberal arts, education and professional programs, Edinboro University is committed to equipping students for careers and lifelong success. Located in the resort community of Edinboro, the University is only 18 miles from Erie, Pennsylvania's fourth largest city, and within 100 miles of, and with easy interstate highway access to, the major educational and cultural centers of Buffalo, Cleveland and Pittsburgh.

Edinboro boasts 42 buildings on a beautiful 585-acre campus, which includes a 5-acre lake, open fields and woods, 9 on-campus residence halls for approximately 1,100 students, and the largest and most comprehensive academic library in northwestern Pennsylvania with nearly 300,000 volumes and access to more than 100 databases.

Students are guided and inspired by an internationally recognized instructional faculty, 85% of whom hold terminal degrees in their fields of study. Celebrated for their outstanding research and scholarly accomplishments, a number of faculty members also have held state and national leadership roles in their professional organizations. The student-faculty ratio is 15:1.

There are more than 100 student-related clubs and organizations which offer a wide variety of activities. Students are involved with recreational trips, NCAA and intramural athletics, performing arts, formal and informal dances, movies, co-curricular activities and a thriving Greek life scene. In addition, there are numerous choral and instrumental musical groups open to all students.

Students with exceptionally high academic aptitude scores and excellent high school records can reach higher through the Edinboro University Honors College. Supported by stellar faculty members who are enthusiastic about working with talented and motivated students, scholars in the program enjoy preferential scheduling, dedicated Living Learning Floors, extended library privileges and scholarships.

The Office for Accessibility Services provides nationally renowned support services dedicated to enhancing the University's commitment to equal opportunity for students with disabilities. The University works to promote confidence and independent functioning for students with disabilities across campus. Edinboro's students and many visitors benefit from a campus that is highly accessible and celebrates diversity.

Recognizing that classroom learning provides only part of a complete education, Edinboro University facilitates off-campus internships in businesses, industries and offices throughout the tri-state area and beyond. Edinboro students have interned at ESPN, Philadelphia Museum of Art, MTV Studios, UPMC Health Systems, the Smithsonian Institution, Erie Zoo, WJET-TV, National Park Service, Flagship Niagara, Hermitage House Youth Services and many more. Every major has one or more designated internship directors to assist with identifying opportunities and coordinating credits.

Edinboro students also are encouraged to participate in the University's international travel-study opportunities. Many types of experiences abroad are available to EU students, from short-term (2-5 weeks) to a semester or even a year abroad, and many scholarships exist to help make overseas study possible. In addition, visiting scholars from around the world serve as resource individuals for area schools, businesses and industries, and provide special lectures, seminars and workshops for Edinboro students and faculty.

The Edinboro University Alumni Association is a proud and powerful network of more than 65,000 members. Alumni have played a major role in fundraising efforts for student scholarships and continue to be some of the best ambassadors for Edinboro University. EU graduates have found continued success through graduate- and professional-level scholarship and in careers as government officials, Disney animators, federal agents, medical professionals, acclaimed artists and college presidents as well as leaders in business, education, science, criminal justice and countless other fields.

# GENERAL INFORMATION

EDINBORO  
UNIVERSITY

## ADMISSION

Edinboro University utilizes a rolling admissions system, which means complete applications are reviewed and processed until capacities are filled. However, there are some priority admission application deadlines - November 1, early action and honors college admission and scholarship consideration deadline and March 1 priority admission and scholarship consideration deadline.

### 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/transcripts, standardized test scores, recommendations, and/or 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, GED 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. New entering freshmen must submit an official SAT or ACT score. New students who have been out of high school for two or more years are not required to submit SAT or ACT scores. 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 regarding the SAT/ACT examinations.
4. Satisfactory character, as well as proper interest and attitudes, as determined by the high school principal, school 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, i.e. nursing, 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.

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 college/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 Freshman Class

1. Application for admission may be completed online at [edinboro.edu](http://edinboro.edu) or [commonapp.org](http://commonapp.org)
2. A thirty dollar (\$30) non-refundable application fee is required at time of application (Fee waivers are granted for students demonstrating financial need if a proper fee waiver request is submitted.). The application fee should be paid online, however students may also send a check or money order made payable to Edinboro University and mailed to the Admissions Office.
3. Request an official high school transcript be sent directly from the school counselor's office to the Edinboro University Admissions Office. Please note: All documents submitted by the student become the property of Edinboro University and cannot be returned.

4. Request official standardized test scores (SAT or ACT) be sent from test center or school counselor's office. Students who have been out of high school for two or more 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 regarding the SAT/ACT examinations.
5. Participate in a personal interview, if requested by the Edinboro University Admissions Office.
6. Pay all deposits and fees when requested/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.

### Special Students

Applicants who do not wish to pursue 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 30 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. Application for admission may be completed online at [edinboro.edu](http://edinboro.edu). Special Students should choose Non-degree seeking students when applying.
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.

### 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 online as a Dual Enrollment/Early Advantage student
2. Have written permission from a high school official, either the principal or school counselor, indicating that the student is in good academic standing, prepared for college level coursework, in concert with concurrent high school studies.
3. Dual enrollment students have the opportunity to take up to eleven credits per semester, and summer.
4. 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.
5. 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

A student who has attended other post-secondary institutions 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. Official transcripts from other colleges

and universities submitted for admission and evaluation of transfer credit must be received directly from the institution, and contain the signature of the registrar (or other appropriate person) and official seal of the institution.

Upon admission to the University, review and acceptance of academic credits for transfer is performed by the Undergraduate Admissions Office in consultation with department chairs and academic deans, as appropriate. Edinboro University accepts credits in transfer from institutions of higher education which are accredited by regional accrediting bodies. 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.

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 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).

Regardless of credits transferred, all first baccalaureate degree students will take at least 30 of their last 60 credits at Edinboro University. Students seeking an associate degree must complete at least 15 of their last 30 credits at Edinboro University. All first baccalaureate and associate students will take at least 50% of the credits required for the major from a PA State System University.

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 (Elective credit may be awarded for valid academic courses for which the University has no equivalent); 2) courses completed at other colleges or universities in which grades below C- were earned (with the exception of the Academic Passport described in the section below).

### Academic Passport

Students who earn the AA or AS degree in a transfer or college parallel program from an accredited public Pennsylvania community college, and PA State System University transfer students who have attained a GPA of 2.0 or higher in a minimum of 12 credit hours of college level coursework, shall be considered to hold an Academic Passport. Such students 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 non-transfer students. 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.

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 Edinboro University Transfer Articulator on the EU website. It is *strongly suggested* 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 the Edinboro University Transfer Articulator on the EU website. This transfer articulator will assist in

course selections at a community college or another college/university for transfer back to EU. 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 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.

### 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.

### 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 \$30 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.

### 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 **APRIL 1** priority deadline for the fall semester and **AUGUST 1** priority deadline 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, Duolingo, PTE Academic, GTEC CBT exam 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 Global Education Office.
5. **APPLICATION FEE.** An application fee of \$30 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.

### International Transfer Coursework

The Admissions Office requires that all internationally-educated applicants have their foreign credentials from a college or university evaluated by an accredited credential evaluation service. For a list of such services, please consult the National Association of Credential Evaluation Services (NACES). Transfer applicants must have a "Course by Course Report" completed by the service, in order for any foreign coursework to be considered for transfer.

**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 | International Undergraduate |
|---|-------------|--------------|-----------------------------|
| Part-Time (1-11 sem. hrs.)                          | \$322       | \$482        | \$548                       |
| Full-Time (12-18 sem. hrs.)                         | \$3,858     | \$5,787      | \$6,559                     |
| Additional charge for each credit over 18 sem. hrs. | \$322       | \$482        | \$548                       |

### Graduate

|                                   |       |       |       |
|-----------------------------------|-------|-------|-------|
| Per Credit Hour                   | \$516 | \$774 | \$774 |
| Per Credit Hour Special Programs* | \$568 | \$851 | \$851 |

\*Graduate Special Program Rate applies to all concentrations in the Master of Fine Arts degree as well as the Speech Language Pathology degree.

### Basic Tuition Fees Per Summer Session

|  | PA Resident | Non-Resident | International |
|--|-------------|--------------|---------------|
| <b>Undergraduate</b> (per sem. hr.)      | \$322       | \$482        | \$548         |
| <b>Graduate</b> (per sem. hr.)           | \$516       | \$774        | \$774         |
| <b>Per Credit Hour Special Programs*</b> | \$568       | \$851        | \$851         |

\*Graduate Special Program Rate applies to all concentrations in the Master of Fine Arts degree as well as the Speech Language Pathology degree.

### 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 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 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 deposit or any part thereof.

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

|                                 |                        |
|---------------------------------|------------------------|
| <b>Undergraduate</b>            |                        |
| 1-11 credit hours               | \$26.75 per credit     |
| 12 or more credits              | \$320                  |
| <b>Graduate-Per Credit Hour</b> | <b>\$36 per credit</b> |

### Student Activity Fee Per Academic Semester (Including Summer Sessions)

|                      |                    |
|----------------------|--------------------|
| <b>Undergraduate</b> | <b>Graduate</b>    |
| 1-11 credits         | \$18.75 per credit |
| 12 or more credits   | \$225              |

### Student Success Fee Per Academic Semester

|                      |                   |
|----------------------|-------------------|
| <b>Undergraduate</b> | \$70 per semester |
|----------------------|-------------------|

### Student Success Fee Per Summer Semester

|                      |                  |
|----------------------|------------------|
| <b>Undergraduate</b> | \$35 per session |
|----------------------|------------------|

### 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              |

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

|                            |                    |                     |
|----------------------------|--------------------|---------------------|
| <b>Undergraduate</b>       | <b>PA Resident</b> | <b>Non-Resident</b> |
| 1-11 credits               | \$20 per credit    | \$30                |
| 12 or more credits         | \$239              | \$364               |
| <b>Graduate-per credit</b> | <b>\$28</b>        | <b>\$40</b>         |

### 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 Instructional Fees

#### BSN in Innovative/Accelerated Nursing

#### BSN in Nursing Program Fee

25% of Tuition Billed per Academic Semester (Fall/Spring)

#### Master's in Speech Language Pathology Program Fee

Ranges from \$825 - \$1,410 One Time Fee Charged in the First Semester

#### School Psychology Assessment Fee

\$75 per Academic Semester (Fall/Spring except During Internship)

### Course Specific Instructional Fees (Including Summer Sessions)

|  |   |
|--|---|
| <b>Art Fee-Applied to Courses with ART Subject</b> | 5% of Tuition<br>Billed per Credit Hour |
|--|---|

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Applied Music Fee</b> | \$100 per course<br>(Undergraduate) |
|--------------------------|-------------------------------------|

|                         |                      |
|-------------------------|----------------------|
| <b>STEM Course Fee*</b> | \$30 per Credit Hour |
|-------------------------|----------------------|

\*Applied to select courses in Science, Technology, Engineering, and Math

### Clinical Practice Placement Fee

Fee Varies by Placement

### Housing Per Academic Semester

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

|  |         |
|--|---------|
| Double Room, per person (2 @ room)       | \$3,000 |
| Private Room (1 @ room)                  | \$4,400 |
| Break Housing, per person (2 @room/week) | \$200   |
| Break Housing, per person (1 @room/week) | \$295   |

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

|                     |         |
|---------------------|---------|
| Semi-Suite – Double | \$3,330 |
| Semi-Suite – Single | \$4,100 |
| Suite – Double      | \$4,200 |
| Suite – Private     | \$4,500 |
| Single – Studio     | \$5,000 |

### Single Room Upcharge

150% of regular room rate

|            |       |
|------------|-------|
| Storage:   |       |
| Per Term   | \$128 |
| Per Summer | \$256 |

### Meals – Plans per Academic Semester

|  | <b>Meal Plan</b> | <b>Flex Dollars</b> | <b>Total</b> |
|--|------------------|---------------------|--------------|
| Food, 19 meals                           | \$1,472          | \$300               | \$1,772      |
| Food, 14 meals                           | \$1,276          | \$300               | \$1,546      |
| Food, 10 meals                           | \$1,160          | \$300               | \$1,460      |
| <b>Block Plans:</b>                      |                  |                     |              |
| 210 meals                                | \$1,592          | \$300               | \$1,892      |
| 175 meals                                | \$1,346          | \$300               | \$1,646      |
| 105 meals                                | \$946            | \$300               | \$1,246      |
| 60 meals                                 | \$553            | \$300               | \$853        |
| 30 meals                                 | \$277            | \$300               | \$577        |
| Flex meals only (off-campus & commuters) | \$100            | \$100               | \$100        |

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

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

|                           |       |
|---------------------------|-------|
| Double Suite, per person  | \$200 |
| Private Suite, per person | \$295 |

### Meals for Summer Housing (per week)

|                |      |
|----------------|------|
| Food, 14 meals | \$85 |
| Food, 10 meals | \$77 |

## 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).

## Application Fee

Undergraduate students applying for admission shall pay a \$30 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 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.

## Senior Citizen Tuition Waiver

All persons age 62 or over who wish to enroll to audit an undergraduate or graduate credit-bearing course offered by Edinboro University of Pennsylvania will be given a full remission of tuition and fees for classes which have available seats. Sundry charges, as defined in the catalog, will apply as appropriate. Individuals interested in utilizing this waiver to audit classes must contact the Registrar and are scheduled one week prior to the start of the semester/term based upon seat availability. This tuition and fee waiver does not apply to courses taken for college credits.

## Credit by Competency Examination Fee

A flat administrative fee of \$50 per credit hour for each separate examination taken for credit is charged regardless of the number of credits.

## Life Experience Credit Charges

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

|                                    |        |
|------------------------------------|--------|
| Preliminary Application Fee        | \$25   |
| Evaluation Fee - First Department/ | \$100/ |
| Each Additional Department         | \$50   |
| Life Experience Credit Hour Fee    | \$25   |

## 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                 |
| Medication/Supplies        | \$3 - \$60          |
| Physical Fee:              |                     |
| Basic                      | \$25                |
| Advanced                   | \$50                |
| Immunizations              | At cost \$15 - \$60 |
| Women's Clinic Appointment | \$10                |
| No Show Charge             | \$15                |
| Ghering Lab Tests          | \$5 - \$35          |
| Records Fee                | State Fee Rate      |
| Medical Transport          | Actual Taxi Cost    |
| Tuberculosis Testing       | \$10                |

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 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 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 campus or online or a combination of on campus/online, during a semester must pay the Health Center, Student Activity and University Center fees at the per credit hour rate equal to the total scheduled credit hours.

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.

## 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 charge is \$50 for up to two people.

## Sundry Charges

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

|  |                                       |
|--|---------------------------------------|
| Competency Examination                               | \$50 per credit hour                  |
| Duplicating (External/Internal)                      | .10/.04                               |
| Computer Lab Printing excess                         | \$5 per increment                     |
| Course Withdrawal Fee (after the drop period)        | \$25 per course                       |
| Late Graduation Application Fee                      | \$100                                 |
| Lost Key - single                                    | \$25                                  |
| Lost Key - master                                    | \$75-\$100                            |
| Returned Checks                                      | \$30                                  |
| Library (lost book fees)                             | Replacement cost +                    |
|  | accumulated fines+\$10 processing fee |
| Notebook PC Late Fine, Per Day                       | \$5                                   |
| Notebook PC replacement cost-\$25 processing fee     | \$250+                                |
| Laptop replacement                                   | \$2,000                               |
| Media and Curriculum Materials (minimum) replacement | \$50                                  |
| New Student Transition Fee, guest meals              | \$125/\$20                            |
| Payment Plan Semester Fee                            | \$40                                  |
| Payment Plan Late Fee                                | \$15                                  |
| Late Fee – Art Department Return of Equipment        |                                       |
| Per Day/Per piece of equipment                       | \$10                                  |
| Late Payment Fee-Student's                           |                                       |
| with no payment arrangements                         | \$100                                 |

|   |       |
|---|-------|
| Testing Center (Formerly Pearson Testing Center Test) |       |
| CLEP Fee  | \$35  |
| Strong Interest Inventory                             | \$10  |
| Vehicle Registration - per year                       | \$75  |
| Vehicle Registration - replacement                    | \$25  |
| Reserved Parking                                      | \$150 |
| Parking Violations                                    | \$30  |
| Parking Violations Late Fee                           | \$10  |
| Parking Violation – Handicap Parking Zone             | \$100 |
| Parking Violation – Blocking Emergency Device         | \$50  |
| Parking Violation – Fire Lane Parking                 | \$30  |
| Parking Violation – Illegal Parking                   | \$30  |
| Parking Violation – No Decal/Expired Permit           | \$30  |
| Boot Removal  | \$50  |
| First Student Identification Card                     | \$20  |
| Replacement Student Identification Card               | \$20  |
| Drug and Alcohol Awareness Class                      | \$100 |

## Transcripts

An academic transcript is the official record of coursework taken at the university for either graduate or undergraduate credit and also includes any credits transferred to the university. The university issues separate and distinct undergraduate and graduate transcripts.

- Academic transcripts are issued by the Office of Records and Registration upon receipt of an online order; original written request or signed facsimile request of the current or former student (hereinafter referred to as student), by legal order of a court, or by request based upon statutory law (Family Educational Rights and Privacy Act of 1974).
- A fee, established by the Council of Trustees and reviewed annually, will be charged for the issuance of transcripts requested by the student.
- Employees of the university and members of their immediate families are not charged a fee for the issuance of transcripts. Such transcripts must be requested in person at the Office of Records and Registration. Such requests are subject to a two-week processing time period.
- The academic transcript may contain the following information:
  - Basic accreditation statement of Edinboro University
  - Student name
  - Student address
  - Student birth date (day-month)
  - Student identification number
  - Date of production of the transcript
  - Current cumulative quality point average for all coursework provided on the transcript
  - Current major and minor programs
  - Listing, by academic term, of all courses taken for credit
  - Grade received in each course
  - Semester hours of credit earned
  - Quality points earned
  - Transfer credits accepted by the university
  - Current institutional grading scale and definitions of grades
  - Dean's list and honors recognition
  - Academic standing designations
  - Degrees and minors awarded
  - Date degrees and minors awarded
  - Seal of the university
  - Signature of the Registrar
  - Statement of the Family Educational Rights and Privacy Act 1974
- Edinboro University reserves the right to withhold transcripts and scheduling privileges for persons who are financially indebted to the University or who have failed to provide the University with official transcripts from previously attended institutions. Transcripts may be withheld in other instances where the President or the President's designee deems the action to be in the best interests of the institution. The University does not withhold semester or session final grade reports.

## 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 Student Accounts 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 Student Accounts 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 Student Accounts 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 by the billing due date by check, credit card through Paypath or debit card, have proof of financial aid, provide a VA certificate of benefits eligibility or enroll in a semester payment plan will be charged a \$100.00 late fee for non-payment and a financial hold preventing future registration and access to the student's records will be placed on the account. Failure to complete the payment process and/or provide written proof of bank loans, other financial assistance or a VA certificate of benefits eligibility 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), username, and passwords. Through this exciting technology, students can also choose payments by check (ACH) and credit card via PayPath. For more information and answers to frequently asked questions, logon to ([www.edinboro.edu](http://www.edinboro.edu) keyword: Student Accounts).

## 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 that students may find it necessary to withdraw from a course or courses for a variety of valid reasons. There are no refunds for partial withdrawals from a semester or term because the University incurs expenses for each student upon registration for classes. There is also a course withdrawal fee for each course withdrawn from the schedule after the designated drop/add period. If a student withdraws for the entire semester or term that is designated a “total withdrawal.” The total withdrawal refund policy includes a time-related schedule with withdrawal refund deadlines. The refund deadlines are published in advance of each term and can be found on the Edinboro University website and are also available upon request.

### Refund Policies for Total Withdrawal

The Student Accounts Office processes tuition refunds for withdrawals from the University in accordance with University and Pennsylvania State System of Higher Education Policies.

During the regular Fall and Spring semesters, if students choose to withdraw from the University during the first five weeks of the semester, there will be a refund of tuition, room and meals (if applicable) and some fees. The refund percentage used in the calculation is based on the date of withdrawal entered by the student in the S.C.O.T.S. system in accordance with [PA Board of Governors Policy 1983-19-A](#). Refunds for students that withdraw from special start and end date terms will be calculated according to the [Tuition Refund and Account Adjustment Schedule](#) Special Start and End Date Classes.\*

Students who reduce their credit hour load to part-time after the 100% refund shall not be eligible for a refund or account adjustment of amounts that exceed the part-time rate. After the drop period, refunds for tuition and fees shall be made only for full semester withdrawal.

| Refund Period<br>(% of Enrollment<br>Period Completed) | Refund<br>Percentage | Duration<br>(Illustration of Estimated<br>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. 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 below).

### 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.

### Other refunds (All semesters/sessions)

- 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.
- 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; At the end of the spring semester, flex balances \$5 and greater will be credited back to University student accounts; balances less than \$5 will be forfeited. These credits will be applied to outstanding student account balances. If no outstanding balance exists, the credit can be applied to future charges. Students separating from the University due to graduation, withdrawal, or other reasons, will receive a refund of any credit balance of \$5 or more.

| Refund<br>Percentage | Duration<br>(Illustration of Estimated<br>Weeks in Typical Semester) |
|----------------------|--|
| 90%                  | Through week 1 *   |
| 80%                  | Through week 2 *   |
| 60%                  | Through week 3 *   |
| 50%                  | Through week 4 *   |
| 40%                  | Through week 5 *   |
| 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 Student Accounts 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 December 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:

All undergraduate students are required to maintain a minimum cumulative grade point average of 2 or better and complete at least 67% of all attempted coursework which includes (F)ailures, (I)ncompletes, (W)ithdrawals, and (R)epeat courses.

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

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, supporting documentation, and what has changed in order to better facilitate academic success.

Once this material is received by the Financial Aid Office, an academic plan will be issued to the student, if the appeal is approved. 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 8th 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 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 \$ 639 - \$6345 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 \$300- \$600. 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**

**A scholarship for Honors Students - The Edinboro University Honors College** 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 college may apply for Upperclassman Honors Scholarships which are awarded on a semester-by-semester basis.

Inquiries concerning the honors college should be addressed to the director of the Honors College.

**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 at [www.goarmy.com](http://www.goarmy.com).

**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 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 is 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. **This program is currently on hiatus per the federal government**

**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 Financial Aid Office. Awards may not exceed \$250 per semester and students must be enrolled full-time. Emergency Loans are only available during the first three weeks of the semester.

#### 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. Students may work 15 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 (INSTWK)** - The institutional work study program is in most cases based on need. 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, GA's 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 Policies & Procedures

Policies and procedures may be found on the University's website at [www.edinboro.edu/directory/offices-services/hr/policies/policies.html](http://www.edinboro.edu/directory/offices-services/hr/policies/policies.html). 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 and Illegal or Controlled Drugs                            |
| A002     | Confidentiality and Privacy of Student Record                                  |
| A003     | University Related Advisorship   |
| A004     | Accelerated Means of Earning Credits   |
| 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                            |
| A014     | Change of Major  |
| A015     | Satisfactory/Unsatisfactory Grades   |
| A017     | Transfer Student Prior Conduct Review  |
| A018     | Self-Medication  |
| A019     | Undergraduate Transfer Standards   |
| A020     | Student Organization Activities  |
| 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     | Evaluation of Credits Over Ten Years Old                                       |
| 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  |
| A040     | Honors College   |
| 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                                       |
| A061     | Transcripts  |
| A062     | Class Attendance   |
| A063     | Inactive Courses   |
| A064     | Dual Numbering of Courses  |
| A065     | Student Vandalism of University Property                                       |

|      |   |
|------|---|
| A067 | Visiting Student Program  |
| A069 | Student Exposure to Bloor Borne Pathogens or other Potentially Infectious Materials |
| A070 | Mandatory Health Insurance for International Students                               |
| A072 | Semester Credit Hour  |
| A073 | Priority Registration   |
| A074 | Student Travel  |
| A075 | Family Assistance Center  |
| A076 | Review of Applicants with Prior Felony Convictions or Disciplinary Dismissal        |
| A079 | Academic Minors   |
| A080 | Pet Friendly Residence Halls  |
| D046 | University Center   |
| G004 | University Sex Discrimination and Sexual Misconduct Policy Handbook                 |

### University Procedures

Appeal of Academic Suspension  
 Awarding of Academic Honors  
 Reportable Diseases  
 Seriously Disruptive Behavior  
 Simultaneous Dual Degrees Study Abroad Award Guidelines P024  
 Student Trustee Selection P007  
 Verification of Student Identity in Distance Education

## STUDENT ENGAGEMENT

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

College is an experience, and Edinboro University offers seemingly endless opportunities to get involved, stay active, and develop valuable life skills. Edinboro has over 140 clubs and organizations; 18 competitive NCAA Division I and Division II teams; and 12 social fraternities and sororities.

### Frank G. Pogue Student Center

Pogue Student Center is the hub for campus life activity. Students can grab a meal in the food court, work out in the fitness center, shop in the University Bookstore or Student Government Association convenience store, and meet with friends to watch a movie in Scot Cinema or socialize in the Game Room.

### Celtic Court

The food court is on the first floor of Pogue Student Center and features a variety of options. Currently the home of Absurd Bird, Scots Subs, and Sushi Do. The Cyber Café serves items like yogurt, sandwiches, pastries, and coffee and is often the location of evening entertainment. Both spaces provide lounge-type seating, but also make food easy to grab and go – whatever you need to fit your schedule.

### Scot Cinema

Located on the first floor of Pogue Student Center is our 75-seat theater. The theater is free for students and only \$1 for guests. A stage is also available for small productions and speaker events. Each semester, the University Programming Board hosts box office movies here in our cinema complete with popcorn if you'd like – and we don't mind if you bring snacks!

## 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 1/4 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. A gender flexible locker room is also available. Our facilities offer two racquetball courts, an extra cardio room, and climbing gym! In addition, the Fitness Center provides an area where students can sign out a variety of sports balls and equipment.

## 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 of 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.

## Student Organizations

African Student Association  
 AIDS Awareness (Wellness Peer Educators)  
 AIGA Graphic Design Club  
 All Jokes Aside Improv  
 Alpha Gamma Delta  
 Alpha Kappa Lambda  
 Alpha Kappa Psi  
 Alpha Psi Omega  
 Alpha Sigma Alpha  
 Alpha Sigma Tau  
 American Sign Language Club  
 Animation Club  
 Anthropology Club  
 Applied Communicators of Edinboro  
 Art Education Club  
 Asia Club  
 Beta Beta Beta Biological Honor Society  
 Black Student Union Association  
 Brothers and Sisters United  
 Bruce Gallery  
 Business and Economics Club  
 Center for Outdoor Recreational Experience (C.O.R.E.)

CHAOS (Cooper Hall's Ambassadors of Science)  
 Chi Sigma Iota  
 Chimera  
 Circle K Club  
 Clay Club  
 Computer Science Club  
 Council for Exceptional Children  
 Cru  
 Cycling Club  
 Delta Zeta  
 Dramatic Activities  
 Drawing and Painting Club  
 Early Childhood Club  
 Edinboro Anime Club  
 Edinboro Chi Alpha Club  
 Edinboro Club Lacrosse  
 Edinboro Equestrian Team  
 Edinboro Film Series  
 Edinboro Fly Fishing Club  
 Edinboro Gamer's Guild  
 Edinboro Love Your Melon Campus Crew  
 Edinboro ROTC Student Organization  
 Edinboro University Disc Golf Association  
 Marketing Club  
 Edinboro University of Pennsylvania Accounting Club  
 Edinboro University of Pennsylvania Hockey Club  
 Edinboro University Paranormal Society  
 Edinboro University Players  
 Edinboro University Shooting Sports  
 Edinboro University Skeptics Club  
 Edinboro University Student Government Association, Inc.  
 Edinboro University Student Mock Trial Organization  
 Edinboro University Film Club  
 EPIC Outreach  
 EUP Jiu Jitsu Club  
 EUP Student American Art Therapy Association  
 Exercise Science Club  
 Fighting Scots Club Baseball  
 Game Development Club  
 Geoscience Club  
 Graduate Art Education  
 Health and Physical Education Major's Club  
 Health Professions Club  
 Highland Ambassadors  
 Highland Games  
 History Club  
 Identity  
 Illustration Club  
 Interfraternity Council  
 International Students Affiliation  
 Kappa Delta Rho  
 Knitting for Those in Need  
 Lambda Chi Alpha  
 Latino Student Organization  
 MacCato Crew  
 Math Club  
 Men's Club Rugby  
 Men's Ultimate Frisbee Team  
 Men's Volleyball Club  
 Metals Club  
 Middle Level and Secondary Education Club  
 Model NATO  
 Model United Nations

NAFME Collegiate Chapter  
 National Panhellenic Council  
 National Panhellenic Conference  
 National Society for Leadership and Success (NSLS)  
 Newman Student Association  
 Order of Omega  
 PAW Prints  
 Personal Financial Planning (PFP) Club  
 Phi Alpha Social Work (Honor Society)  
 Phi Kappa Psi  
 Phi Mu Alpha (SINFONIA Men’s Music Fraternity)  
 Phi Sigma Pi (National Honor Fraternity)  
 Photography Club  
 Physics & Astronomy Club  
 Print Club  
 Psi Chi  
 Sculpture Club  
 Sigma Alpha Iota  
 Sigma Gamma Ro  
 Sigma Sigma Sigma  
 Sigma Tau Delta (International English Honor Society)  
 Social Work Association of Graduate Students (SWAGS)  
 Social Work Club  
 Sociology Club  
 Spectator (campus newspaper)  
 Speech and Hearing Club  
 Spirit of Scots Marching Band  
 Student Art League  
 Student Community Outreach Through Service (SCOTS)  
 Student Concert Series  
 Student Nurses Organization of Edinboro (SNOE)  
 Student Pennsylvania State Education Association (SPSEA)  
 Students of Edinboro for Environmental Defense (SEED)  
 Student Veterans Association  
 The Tartan Tour Guide Volunteers  
 Triathlon Club  
 University Programming Board (UPB)  
 WFSE (campus radio)  
 Women’s History Month  
 Women’s Ultimate Frisbee Team  
 Women’s Volleyball Club  
 Wood Furniture Club  
 Wrestling Club  
 X-Plus Dance Team  
 Xclusive Step Team  
 Zeta Tau Alpha

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

## 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

Kappa Delta Rho  
 Lambda Chi Alpha  
 Phi Kappa Psi  
 Phi Mu Alpha

### Sororities

Alpha Sigma Alpha  
 Alpha Sigma Tau  
 Delta Zeta  
 Sigma Sigma Sigma  
 Zeta Tau Alpha

## Campus Life

The Campus Life Office serves as a campus programming hub for University clubs and organizations, Recreational Sports, Club Sports, University Programming Board, Homecoming Activities, Greek Life, The Pogue Student Center, 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 (UPB) 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.

Working closely with our Office of Diversity and Inclusion, 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.

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.

## Volunteer Service

The Office of 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. 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.

## Office for Diversity and Inclusion

The Office for Diversity and Inclusion 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.

## Student Conduct

Standards of scholarship and conduct are established to maintain order, to provide for the safety and well-being 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 Conduct provides the due process through which allegations of misconduct are addressed. The Student Code of Conduct and Judicial Procedures is available on the Office of Student Conduct website.

## 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. These sports include 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

The Campus Outdoor Recreational Experience (CORE) 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.

## 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 are among the most energy efficient residence halls in the nation, using geothermal energy technology for their climate control systems; they have 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 and network access are included. All residence halls feature common lounges with wireless access, recreation areas, television lounges, vending/snack equipment, and laundry facilities. Pet friendly housing is available, through an application and approval process, in our traditional hall.

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 Assistant Directors are assisted by Graduate Hall Coordinators (GHCs) and undergraduate Resident Assistants (RAs) 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. Students are encouraged to e-mail ([boroliving@edinboro.edu](mailto:boroliving@edinboro.edu)) or call the Housing and Residence Life Office (814.732.2818) whenever questions arise.

Students are encouraged to reside on campus throughout their college career. Living on-campus provides connection to students and faculty, convenience, and comfort. First- and second-year students must reside on campus unless they are over the age of 21 or commute from the home of a parent or legal guardian. Students are required to reside in on-campus housing for four 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 they may find themselves 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 that 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 ongoing in the hall communities. In addition, the Edinboro University Police and Environmental Health and Safety Officer participate in staff and student education programs and routinely may be found in the residence halls.

## 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 they reside 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.

## Student Accessibility Services

Edinboro University has been actively involved in providing services to students with disabilities since September 1974. Student Accessibility Services (SAS) provides needed support services to students with various disabilities who attend the University. These disabilities include, but are not limited to, physical disabilities, learning disabilities, autism spectrum disorders, visual impairments, and hearing impairments. Students are required to provide appropriate medical documentation and/or test evaluations to the SAS if they are going to request any accommodations; it is important to note that providing documentation of a disability does not always suffice for documenting accommodation needs. Educational accommodations at the university level are provided based upon current documentation, expressed need of the student, and involve an interactive process. Educational accommodations may include priority scheduling, alternative testing arrangements, books and materials in alternate formats, readers, scribes, interpreters or real-time captioning service, and laboratory aides.

The Office for Accessibility Services (OAS) 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 Accessibility Services

## Student Health Services

Student Health Services is available to provide health care and health education for students. The mission of 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 to promote 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 a licensed family physicians, a certified registered nurse practitioner, and registered nurses. In 2019, 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 their own 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.

A Parenting Resource Room is also available at McNerney Hall across the lobby from Ghering Health and Wellness Center to assist students who are pregnant or parents by providing a safe space for themselves and their children while on campus. 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 within the Ghering Health and Wellness Center 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.

All services provided are held strictly confidential and require payment of the Health and Wellness Center fee. For additional information, call 814-732-2252 or visit us at [www.edinboro.edu](http://www.edinboro.edu), search: *CAPS*.

## 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.

## 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, men's tennis, women's indoor track and field, women's volleyball 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 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.

Students are required to provide the Veterans Success Center with a Certificate of Eligibility and Edinboro University Certification Request Form as soon as possible after scheduling coursework in order for Edinboro University to certify enrollment information with the Department of Veterans Affairs (VA) in a timely manner. Once these documents are received, students will not receive late fees or registration holds on their accounts due to unpaid balances on their accounts until after VA has completed payment of the tuition and fees amount they are obligated to pay or 90 days after Edinboro University has certified tuition and fees with VA.

Potential Active Duty, Reserve or National Guard students are highly recommended to contact their Educational Services Officer (ESO) or their Military Education Office to discuss the use of Federal Tuition Assistance prior to enrollment.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. Government Web site at [www.benefits.va.gov/gibill](http://www.benefits.va.gov/gibill).

## Center for Career Development and Experiential Learning

The Center for Career Development and Experiential Learning (CCDEL) offers a variety of programs, information and services to undergraduate and graduate students, alumni, and prospective students. Students may meet with professional staff to help clarify goals and interests, review occupational workforce data and connect with hands-on learning opportunities in their field. The Center maintains TartanEdge, a comprehensive website that includes customized information about careers, internships, and more. CDEL also provides:

- Personality and career assessments
- Interview preparation services and mock interview feedback
- Assistance with professional writing, including resumes and cover letters
- Free professional headshots
- Personal branding guidance
- Extensive job and internship opportunities
- Job and internship search and application assistance
- Networking assistance
- Educational programs for classes and student clubs and organizations

Several events, including career fairs, employer information sessions, and on-campus interview days take place throughout the year. Students are encouraged to visit the CDEL during their first year of study to take full advantage of these resources.

## 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.

## Global Education Services

The Global Education Office, for more than 50 years, has been welcoming students from around the world. The office provides qualified support to international students from application to graduation and beyond. This support includes, but is not limited to, non-immigrant student status compliance, cultural adjustment, academic success, and liaising with other campus offices and the surrounding community.

Students interested in applying for admission can learn more by visiting Edinboro University's website at: [www.edinboro.edu/admissions/international-students/index.html](http://www.edinboro.edu/admissions/international-students/index.html)

## 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), for a semester, or academic year.

Edinboro University offers short-term, for credit, study abroad programs at various locations throughout the world for all students. Programs are offered in the summer, during winter and spring breaks, and our faculty accompany our students. Recently, students have traveled to England, Scotland, Italy, China, Japan, Ireland, and the Dominican Republic on long and short-term experiences.

Getting started is easy! The Global Education Office will provide students with a basic overview of study abroad opportunities and the process. Individual guidance is provided to meet a student's specific goals regarding location, finances, classes/transfer credits, and preparation.

[www.edinboro.edu/directory/offices-services/global-education-office/study-abroad/index.html](http://www.edinboro.edu/directory/offices-services/global-education-office/study-abroad/index.html)

## 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. A Commuter Lounge is available on the 2nd floor of the Frank G. Pogue Student Center. The space is complete with a refrigerator, microwave, study area, television, and lockers.

## Parking on Campus

Parking on campus is by decal which you apply for on line at [secure.edinboro.edu/EVR/VehReg.pl](http://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/Campus Police Station. 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. Visitors can also obtain temporary parking permits by filling out the form online [www.edinboro.edu/directory/offices-services/police/event-parking-registration.html](http://www.edinboro.edu/directory/offices-services/police/event-parking-registration.html). 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: [www.edinboro.edu/directory/offices-services/police/parking-on-campus.html](http://www.edinboro.edu/directory/offices-services/police/parking-on-campus.html). The University Police may be contacted at any time at 732-2921 for assistance.

## 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. Any student can take all of the ROTC classes and earn a minor in Adaptive Leadership & Military Studies without incurring any military obligation. Students pursuing a commission into the U.S. Army, however, do not incur a military obligation until their third year in the program. 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. . Students may enter the program during any semester as long as they have two complete academic years remaining at Edinboro.

Scholarships are available to all students and are 100% merit based. Student veterans and current service members can receive a waiver for up to the first two years of the ROTC program and are eligible to enter the advanced course if they wish to earn a commission in the Army and return to service.

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 University Access Office located in the Lawrence Towers, 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 PSECU bank account. The ID cards are valid as long as the holder is associated with the University and is in good standing. Initial card and replacement card cost is \$20.

## Dining Services

The meal program at Edinboro is designed to exceed our customers' expectations. The services provided are reflective of today's active lifestyles and anticipate 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:

- **Dining Hall** – Van Houten Marketplace is an all-you-care-to-eat facility which 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 breakfast meats to order, and a wide assortment of continental items, fruit, yogurt, and cereals. Lunch and Dinner feature varied options at the **Grill, Culinary Line, Intolerance Station, Terra Ve, Pizza Bar, Soup /Salad/ Deli & Dessert Bar**. 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.

- **Retail Dining** – The dining hall isn't the only game in town. Students also have plenty of other dining options around campus. The Frank G. Pogue Student Center, Ross Hall and the Baron-Forness Library all have *a la carte* dining available. Pizza, subs, hamburgers, made to order salads and sandwiches are all available. There is a large variety of options available, all of which can be purchased using meal swipes, Flex Dollars, cash or credit.

### Program Highlights

- Retail locations are operated on an *a la carte* basis and feature “meal cash credit” for students enrolled in any of the meal plans. To add greater flexibility to our meal plans, your meals can be exchanged for a cash allowance towards any *a la carte* purchase in any of our retail locations on campus. The Meal Cash Credit is \$5.95. For instance, if your bill at Starbucks comes to \$8, your meal cash credit will cover \$5.95 of that, leaving you a balance of \$2.05. This balance can either be paid for through cash, credit, or Flex Dollars.
- Boro Meal Deals that cost \$5.95 are offered in each location to meet the meal cash credit value in order to provide a complete meal at every location without having to use your Flex Dollars.
- Plans designed specifically for residential students are available. Residential students must participate in one of the following meal plans: 19, 14, 10 meals per week or the 210 or 175 block plan. All meal plans come with \$300 Flex Dollars, \$25 Boro Bucks, and 5 guest meals. Meals per week plans run from Monday breakfast through Sunday dinner. Block plans run per semester. Meal programs are not transferable.
- Commuter and off-campus students may also choose from all available meal programs (19, 14 or 10 meals per week or the 210, 175). Commuter students also have the option of choosing 105, 60 or 30 Block Plans. All of these plans come with \$300 Flex Dollars, \$25 Boro Bucks. Each of these plans, except the 30 Block, comes with 5 guest meals. In addition to the plans previously listed, commuter students may also open a Flex Only account. This account requires a minimum purchase of \$25. Students may choose to add up to an additional \$300 in Flex within the first two weeks of a new semester and still have it billed to their University account.
- FLEX DOLLARS – This pre-paid account may only be used at on campus dining locations, and it offers meal plan members the opportunity to make purchases above the meal cash credit (\$5.95). Participants in all the meal plans with Flex may add to their Flex Dollar accounts at any time with a minimum of \$25. Flex Dollars will carry over from fall to spring. At the end of the spring semester, flex balances \$5 and greater will be credited back to University student accounts; balances less than \$5 will be forfeited. These credits will be applied to outstanding student account balances. If no outstanding balance exists, the credit can be applied to future charges. Students separating from the University due to graduation, withdrawal, or other reasons, will receive a refund of any credit balance of \$5 or more.
- BORO BUCKS – Boro Bucks are a cash debit account to be used at various locations, both on and off-campus. Each meal plan comes with \$25 Boro Bucks, but more can be added at any time utilizing the GET App, at the Student Accounts Office in Hamilton Hall, or the University Access Office located in the Lawrence Towers (enter from Perry Lane entrance). To see a list of participating vendors please log onto your MyEdinboro Account and select the Boro Bucks icon in the launchpad. Boro Bucks are not used at dining locations. Think of them as a debit account attached to your University ID.
- 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. 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 earn two undergraduate degrees simultaneously at Edinboro University shall complete the Simultaneous Dual Degree Request for Undergraduate Students form (available in Hamilton Hall and online at the Edinboro Records and Registration website) at least one calendar year prior to the student's anticipated graduation date.

Pursuant to PASSHE Procedure/Standard 2018-34, a student who simultaneously meets all of the degree requirements for two undergraduate degrees may obtain two degrees, subject to the following rules and procedures:

1. The student must earn a minimum of 120 credit hours total. Note that, in order to meet the degree requirements of certain combinations of undergraduate programs, the student may have to earn more than 120 credit hours.
2. The student will be assigned an academic advisor for each degree program.
3. The student, with the student's assigned academic advisor or chair from each program, will develop a plan of study for completing each degree program, based on each program's regularly scheduled rotation of courses. Each plan will be approved by the student's academic advisor for that program and the dean of that program.
4. For record-keeping purposes only, the student, on the Simultaneous Dual Degree Request for Undergraduate Students form, shall designate one of the degrees as the "first" degree and one as the "second" degree. Designating one degree "first" or "second" does not make one degree of greater or lesser significance than the other.
5. A student's academic transcript will list both degrees, while the student will be issued two diplomas, one for each degree earned.
6. When applying for graduation, the student will clearly indicate that the student is applying to be awarded two degrees.
7. A student who completes the requirements of more than one concentration *within a single degree program* (for example, a student pursuing a BFA in Studio Arts who completes all of the requirements of concentrations in Ceramics and Painting) has completed a "dual concentration" and has earned a single degree, not two degrees. A student wishing to pursue more than one concentration within a single degree program must complete the Concentration Request Form. Note that a student who is pursuing two separate undergraduate degrees simultaneously (e.g., a BS in Mathematics and a BS in Computer Science) may declare concentrations within those degrees (e.g., Actuarial Science and Network and System Administration) and still earn two degrees.
8. If a student wishes to earn *more than* two degrees simultaneously, the student must obtain permission from the dean or deans of the degree programs.
9. If a student no longer wishes to pursue two degrees simultaneously, the student must so notify the Registrar in writing.

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

## Confidentiality and Privacy of Student Records

A statement concerning the rights of students to confidentiality and privacy of their records will be published annually, as required by laws, in the University's undergraduate and graduate catalogs, and in the Student Handbook and online at the Office of Records and Registration. Nothing in this policy that may exceed the rights of students established by law shall be taken to create a cause of action against the University or its employees, or an enforceable right to any benefit.

The offices at Edinboro University which maintain student records include, but are not limited to: all vice presidents' offices, offices of academic deans, offices of department chairpersons, the Office of Records and Registration, Graduate Studies Office, Residence Life and Housing Office, Ghering Health and Wellness Center, Financial Aid Office, Student Accounts Office, Office of Student Judicial Affairs, Office for Accessibility Services, and the Athletics office.

The Family Education Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records. They are:

1. The right to inspect and review the student's educational records within 45 days of the date the University receives a request for access.

Students should submit to the Registrar, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's educational records that the student believes is inaccurate or misleading.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent.

One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Council of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.

Upon request, the University may disclose educational records without consent to officials of another school in which a student seeks or intends to enroll.

4. As of January 3, 2012, the U.S. Department of Education's FERPA regulations expand the circumstances under which a student's educational records and personally identifiable information (PII) contained in such records—including Social Security Number, grades, or other private information—may be accessed without the student's consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to a student's PII without consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an educational agency or institution. Second, Federal and State Authorities may allow access to a student's educational records and PII without consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive a student's PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without the student's consent, PII from educational records, and they may track the student's participation in educational and other programs by linking such PII to other personal information that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.
5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Edinboro University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202-4605

## Directory Information

The Family Educational Rights and Privacy Act (FERPA), a Federal law, requires that colleges and universities, with certain exceptions, obtain a student's written consent prior to disclosure of personally identifiable information. However, institutions may (not must) disclose appropriately designated "directory information" without written consent, unless the university has been advised by the student that he/she does not wish to have his/her directory information released.

Directory information, which is information that is generally not considered harmful or an invasion of privacy if released, can, but is not required to be disclosed to outside organizations without the student's written permission.

Edinboro University is committed to maintaining the privacy of its students' records and therefore also limits its release of Directory Information for official University purposes only.

Edinboro University will not release Directory Information for solicitation purposes to 3rd parties from outside the university. This includes outside vendors, businesses and organizations unless the university has entered into a contract or agreement with the organization to supply specific service to the university or its students that requires the use of this information.

The Registrar, as the custodian of student records, also carefully screens the release of Directory Information to parties within the university to assure that its students only receive correspondence related to the academic and social missions of the institution.

Edinboro University hereby designates the following student information as "directory information." Such information may be disclosed without a student's previous consent by the institution for any purpose, at its discretion with the exceptions noted below:

1. Name
2. Addresses (campus, local, permanent, and email)
3. Telephone number
4. Program and concentration(s) and minor(s)
5. Student activity participation, including athletics
6. Weight, height (athletic teams)
7. Dates of attendance
8. Full-time, Three-Quarter Time, Half-Time, Less-Than-Half-Time Enrollment Status
9. Anticipated graduation date
10. Class level
11. Degrees and awards received
12. Date of graduation
13. All educational institutions previously attended
14. Academic awards/scholarships/honors received
15. Student Photograph

Currently enrolled students have the opportunity to withhold disclosure of all 15 categories of information under the Family Educational Rights and Privacy Act (FERPA). The University will not partially withhold this information, so students are advised to think carefully before requesting non-disclosure. To withhold disclosure, written notification must be received in the Office of Records and Registration, Hamilton Hall, 210 Glasgow Road, Edinboro, PA 16444. Forms requesting the withholding of "directory information" are available online or in the Office of Records and Registration.

Edinboro University assumes that failure on the part of any student to specifically request the withholding of "directory information" indicates individual approval for disclosures. Former students and alumni are not covered under the Family Educational Rights and Privacy Act (FERPA). As such, the University is not obligated to honor requests for non-disclosure of "directory information" from former students.

**Note:** Students requesting that "directory information" not be disclosed will have this information withheld indefinitely after leaving the University. Students are cautioned that making such a request may adversely impact future requests from potential employers, and other important individuals/organizations.

**Related:** Family Educational Rights and Privacy Act of 1974, as amended. Pennsylvania Right To Know Law of 1957, as amended.

## Standard Grading System

Academic achievement is indicated by letter grades which represent Twelve (12) levels of work:

|      |   |
|------|---|
| A    | Work of exceptional quality;  |
| A-   |   |
| B+   |   |
| B    | Superior work;  |
| B-   |   |
| C+   |   |
| C    | Average work that indicates good quality in daily recitation, assignments and examinations;     |
| C-   |   |
| D+   |   |
| D    | Work that is below average or unsatisfactory;   |
| D-   |   |
| F    | Failure, the course must be repeated to remove the resultant quality point deficiency;          |
| UF   | Unearned 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 and use of a minus (-) within the A, B, C or D grade distributions allows for an additional gradation within the broad definitions indicated.

|    | <u>GPA</u> | <u>Suggested % grade range</u> |
|----|------------|--------------------------------|
| A  | 4.00       | 93-100                         |
| A- | 3.67       | 90-92                          |
| B+ | 3.33       | 87-89                          |
| B  | 3.00       | 83-86                          |
| B- | 2.67       | 80-82                          |
| C+ | 2.33       | 77-79                          |
| C  | 2.00       | 73-76                          |
| C- | 1.67       | 70-72                          |
| D+ | 1.33       | 67-69                          |
| D  | 1.00       | 63-66                          |
| D- | 0.67       | 60-62                          |
| F  | 0.00       | <60                            |

### 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.                    |
| UU | indicates credit taken under the Satisfactory/Unsatisfactory option. Unearned. 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 4th 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 will receive a final grade of S (satisfactory) for C- or better work or U (unsatisfactory) for D+ or below, for a course taken under the S/U standard where a dual grading system exists.
3. A satisfactory grade will count toward graduation but will not affect the student’s quality point average. An unsatisfactory grade will not count toward graduation and will not affect the student’s quality point average.
4. Departments may, through the standard course review and approval process, 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.
5. 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.
6. Only those courses which are offered solely on a S/U basis may be repeated under the satisfactory/unsatisfactory option.
7. Students may opt for no more than four (4) satisfactory/unsatisfactory courses totaling no more than fifteen (15) semester hours. Courses offered solely on an S/U basis are exempted from this limit, as is student teaching if the student teacher selects the S/U option. Within these limits, students may take a maximum of one S/U course each semester and one each summer session.
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 Paragraph 4 above. In this case, a required course graded on a S/U basis will not be counted against the limits established in Paragraph 7 above.

### PROCEDURE

1. Students wishing to exercise the S/U option must do so during the registration period (specifically, during the period for adding courses). After opting for S/U, students may not then elect to receive a letter grade in that course.
2. 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. It will be the duty of the Office of Records and Registration to convert the traditional grade to either S or U for inclusion on the student’s record.

3. Students who elect a course or courses under the S/U option and who then transfer to a major for which that course or courses are required may be allowed to transfer S/U courses for credit at the discretion of the Dean having jurisdiction over the department into which they are transferring.

### 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 for purposes of calculating the appeal period for grades issued in the spring semester; winter session shall not constitute a semester for purposes of calculating the appeal period for grades issued in the fall semester. The departments shall 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 policy for calculating grades as outlined in the instructor’s syllabus, written instructions, and/or communicated grading rubric for the relevant assignments. In this instance, the instructor may be found to have made 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. Summer school shall not constitute a semester for purposes of calculating the appeal period for grades issued in the spring semester; winter session shall not constitute a semester for purposes of calculating the appeal period for grades issued in the fall 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 for purposes of calculating the calendar day term in the previous sentence for grades issued in the spring semester; winter session shall not constitute a semester for purposes of calculating the appeal period for grades issued in the fall 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 appeal shall be heard under the following conditions:
  - a) While it is ideal that the entire Academic Appeals Committee hear the appeal, a minimum of a majority of faculty on the Academic Appeals Committee and at least one student member shall hear the appeal. Only members who attend the hearing shall have the right to vote on the appeal.

- b) The Academic Appeals Committee shall only consider facts and circumstances surrounding the assignment of the grade to determine if the grade was a result of a calculation error or was assigned based on unsubstantiated academic evaluation by the instructor. In no event shall impact of the decision on the student's academic standing or other circumstance outside the standard of review above be considered in the appeal.
- c) The Committee shall have the power by simple majority vote of those members who attended the appeal hearing 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.
- d) 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 shall 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 within fifteen (15) calendar days of receipt of the committee recommendation.

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 shall 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 may hold a hearing within fifteen (15) calendar days of receipt of this appeal, if the Provost determines the appeal appears warranted based on (1) and/or (2), above; 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 under the following conditions.
  - a) The student and FACULTY member will receive a written decision regarding the grade appeal from the Provost/VPAA, copied to the department's Academic Appeals Committee and department chairperson.
  - b) The Provost/VPAA shall only consider facts and circumstances surrounding the assignment of the grade to determine if the grade was a result of a calculation error or was assigned based on unsubstantiated academic evaluation by the instructor.
  - c) The Provost/VPAA shall not 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. In this case, the appeal, or determination of the same shall be heard by the President.
  - d) 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 |
| A- | = | 3.67 | C- | = | 1.67 |
| B+ | = | 3.33 | D+ | = | 1.33 |
| B  | = | 3.00 | D  | = | 1.00 |
| B- | = | 2.67 | D- | = | 0.67 |
| C+ | = | 2.33 | 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, 39.99 grade points, and a grade point average of 2.66.

| Course      | Grade | GPA Hours | Earned Hours | Grade Points |
|-------------|-------|-----------|--------------|--------------|
| 1st Subject | B     | 3         | 3            | 9            |
| 2nd Subject | C+    | 3         | 3            | 6.99         |
| 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           | 39.99        |

Grade Point Average 39.99 divided by 15 = 2.66

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 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 good academic standing, and is required of students to graduate from certificate, associate degree, and baccalaureate degree programs at the University. A GPA higher than 2.0 is required for some degree programs. Students on Academic Warning or Probation may continue at the university under conditions developed by the Academic Success Center.

Academic standing will be adjusted for any student according to performance in summer or winter sessions.

### ACADEMIC WARNING

Any degree seeking student earning a cumulative GPA of 2.00 or higher AND a semester GPA below a 2.00 in their most recent term (fall semester, winter session, spring semester, summer session) will be placed on Academic Warning. Students on Academic Warning may attend summer or winter sessions.

### ACADEMIC PROBATION

Any degree seeking student earning a cumulative GPA of less than a 2.00 will be placed on Academic Probation. If the student on Academic Probation earns a semester GPA of at least a 2.00 without their cumulative GPA reaching a 2.00 or better, they will continue on Academic Probation. This status will continue for each term, including summer or winter sessions, until their cumulative GPA reaches or surpasses 2.00. Students on Academic Probation may attend summer or winter sessions.

### STUDENTS ADMITTED ON ACADEMIC PROBATION

Students admitted to the University on Academic Probation are subject to the same guidelines as stated above.

### ACADEMIC SUSPENSION

Any student on Academic Probation who fails to meet both the 2.00 semester and 2.00 cumulative GPA standards will be placed on Academic Suspension.

Students may apply for reinstatement during their first semester (fall or spring) of suspension, but the period of suspension must be fully served before the student may resume coursework. Immediate appeals of academic suspension (for health emergencies, an error in records, or other extraordinary extenuating circumstances) must be filed with the Office of Records & Registration by the deadline date specified by that Office.

### REPEATING FAILED COURSEWORK

Undergraduate students may repeat failed coursework at another institution. Students should utilize a transfer articulator, such as the PA TRAC, to assist in selecting transferrable courses from another institution. 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 must have an official transcript sent to the Edinboro University Admissions Office. If the student earns a grade of "C-" or better, the credits are added to the academic record. If the student is repeating failed coursework, the failed course at Edinboro will be excluded from the student's GPA calculation.

### REINSTATEMENT

Students who are reinstated to the University following Academic Suspension are subject to the Academic Reinstatement Policy. The academic standing of reinstated students will be determined using the guidelines outlined in this policy. If satisfactory academic progress is not made following reinstatement from suspension, the student will be suspended again. Students are ineligible for reinstatement after a second suspension. Students in this circumstance should consult University Policy A030: Fresh Start for possible future options.

## ACADEMIC PROBATION/SUSPENSION FOR TRANSFER STUDENTS

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

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

### RELATED POLICIES

PASSHE, Board of Governors Policies, System Academic and Financial Procedures: SA043, Academic Standing; EUP Policies: A031, Academic Reinstatement; A022, Repeating Courses; A019, Transfer Standards; EUP Procedure: 22.

## Appeal of Academic Suspension

A student placed on academic suspension may appeal the suspension immediately due to an error in records or an extraordinary extenuating circumstance (e.g., health emergency, death in family). The appeal must be filed in writing and received at the office of Records and Registration by the date specified in the student's letter of suspension. The Residence Life Office is notified of appeals made by students who live in University residence halls so that their rooms will not be reassigned prior to the conclusion of the appeal process. Other students who have been suspended may appeal their suspension during their first regular semester of suspension.

The Registrar's staff will review each appeal and check for holds that may prevent reinstatement (i.e., financial or judicial). If holds exist, the student will be informed and required to clear these holds before his/her appeal is considered. **Appeals from suspension will be reviewed 4 times per year: January 1, March 15, June 1, and October 15th. Should a student miss a deadline, the appeal will be held until the next scheduled suspension review date.**

The Registrar will forward the list of appellants to Student Engagement for review and recommendations. Student Engagement will respond to the Registrar's request within one week.

The Registrar will then forward the list of appellants, including input from Student Engagement, to the Academic Success Center for review and recommendation. The Academic Success Center will respond to the Registrar's request within one week.

The Registrar will then forward a recommendation to the appropriate Dean, including the reviews and recommendations by Student Engagement and the Academic Success Center. The Dean will decide for or against reinstatement of the student, including any conditions associated with the reinstatement. The Dean will notify the Registrar of the decision within one week.

The Registrar will receive the Dean's decision and update the student's record, prepare a class schedule (to include any mandatory repeating of courses) per the Dean, and communicate with the student. The advisor and chairperson will be informed of the conditions for reinstatement or the denial thereof.

## Academic Reinstatement

Undergraduate students whose enrollment at Edinboro University has lapsed for at least one academic semester and 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.



Financial obligations and any account holds that prevent registration will preclude reinstatement to the University.

Students under disciplinary suspension will not be considered for reinstatement until the terms of the suspension sanction have been met.

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 be reinstated (see Academic Warning, Probation and Suspension Policy, A023). Students requesting reinstatement from suspension or who were on probation at the time of withdrawal may be subject to conditions for reinstatement.

Undergraduate students may repeat failed coursework at another institution. Students should utilize a transfer articulator, such as the PA TRAC, to assist in selecting transferrable courses from another institution. 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 must have an official transcript sent to the Edinboro University Admissions Office. If the student earns a grade of "C-" or better, the credits are added to the academic record. If the student is repeating failed coursework, the failed course at Edinboro will be excluded from the student's GPA calculation.

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.

#### PROCEDURE

Application for reinstatement must be made to the Office of Records and Registration.

Policy No. A031

#### 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.

### Undergraduate Transfer Standards

#### INTENT

The intent of this policy is to establish University standards with regard to the acceptance of transfer coursework for undergraduate students seeking admission to the institution and for matriculated students at the institution seeking to complete coursework at other regionally accredited institutions for transfer back to the University.

#### POLICY

In accordance with its enrollment management plan, Edinboro University seeks to enroll certain qualified students in transfer from other institutions of higher education. Review and acceptance of academic credits for students is performed by the Undergraduate Admissions Office in consultation with department chairs, and Academic Deans, as appropriate.

#### PROCEDURE

Transfer coursework from other institutions of higher education is evaluated according to the following conditions:

1. Edinboro University accepts credits in transfer from institutions of higher education which are accredited by regional accrediting bodies (e.g., Middle States Commission on Higher Education). 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.
2. 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 non-transfer students.
3. A student who has a baccalaureate degree from another institution and is attempting to complete a second baccalaureate degree at the University will have all applicable degree credits from the first degree applied toward meeting the requirements of the second degree program. However, students seeking a second baccalaureate degree must earn at least 30 of their last 60 credits through completion of Edinboro University coursework and complete any outstanding requirements for the degree program they seek to complete.
4. 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 nonacademic credits such as Continuing Education Units (CEUs).
5. 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 EU. It is strongly suggested that students consult with their Academic Advisor or Chairperson prior to registering for classes.
 

Following completion of the coursework the student is instructed to have an official transcript sent to the Undergraduate Admissions Office. Transcripts are processed and, if the student earned a grade of "C-" or better, the college-level credits that meet University requirements 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.
6. 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 curriculum;
  - 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.

7. Credits are not officially accepted and applied to a student's academic record until an official transcript from each transfer institution is on file. As defined by the Registrar, an official transcript must come directly from the sending institution and contain the signature of the registrar (or other appropriate person) and official seal of the institution.
8. For international transfer students seeking transfer credit, the Admissions Office at Edinboro University REQUIRES that all internationally-educated applicants have their foreign credentials from a college or university evaluated by an accredited credential evaluation service. For a list of such services, please consult the National Association of Credential Evaluation Services (NACES). Transfer applicants must have a "Course by Course Report" completed by the service.
9. In cases of parallel programs articulated with community colleges, courses are accepted in transfer as per the written agreement. Wherever possible, established articulation matrices are utilized to evaluate such coursework.
10. In cases involving institutions for which no previous review of coursework has been completed, catalog records and related evidence will be used to make equivalency determinations. In cases where course descriptions are not readily available, the student will be asked to provide course descriptions. In special situations where additional information is deemed necessary in order to make equivalency decisions, the student will be asked to provide a course syllabus. Department chairpersons and the academic deans will determine the acceptability of courses in cases where equivalency to Edinboro coursework is questionable.
11. Coursework completed more than ten calendar years prior to the term for which the student is seeking admission to the University will be reviewed for acceptability for transfer by the department chairs and academic deans in accordance with the provisions of Policy A028 (Evaluation of Credits Over Ten Years Old).
12. All credits taken on a quarter-hour basis will be converted to semester hours by multiplying the quarter-hours by two-thirds.
13. All first baccalaureate degree students will take at least 30 of their last 60 credits at Edinboro University. All first baccalaureate and associate students will take at least 50% of credits required for the Major (including required cognate courses) from a PASSHE university. Certain majors may require up to a maximum of 50% of the major credits to be taken at Edinboro University. Students seeking an associate degree must complete at least 15 of their last 30 credits in courses scheduled by the University.
14. Transfer student progress is determined the same as for non-transfer students. The cumulative GPA for transfer students is calculated using only hours attempted and earned at Edinboro University.
15. To be eligible for honors recognition at graduation, a transfer student must have attempted and earned at least 45 semester hours of credit at Edinboro University, and have earned a cumulative quality point average of at least 3.40 (4.00 scale) for all credits graded on the A through F scale earned at Edinboro University.

### 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

An undergraduate student who has been academically dismissed may apply for re-admission to the institution and have a new academic record created. Students must provide a written application for a Fresh Start re-admission and can be admitted only once under this program.

Conditions for re-admission are as follows:

1. A student must sit out at least two academic 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 quality point average of 2.00 by the end of the period of provisional status. Failure to achieve the 2.00 minimum QPA will result in permanent suspension from Edinboro University.
3. All grades for courses on the Edinboro University transcript taken prior to the point at which Fresh Start is granted will remain on the academic transcript and academic history, but the cumulative quality 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.

\*Disclaimer: Academic Fresh Start by Edinboro University does not guarantee that other institutions or employers will accept the standards of said policy. Many graduate and professional degree programs disregard undergraduate institutional policies, and compute the undergraduate GPA utilizing all hours attempted when determining admission. Edinboro University makes no guarantees as to how employers, certifying agencies, or other higher education institutions, including graduate school, professional schools and their common application systems (CAS), or other offices interpret the transcript of a student utilizing the Academic Fresh Start policy.

It is the student's responsibility to determine the implications of the Fresh Start GPA for each institution's admissions process.

The Fresh Start policy is independent of financial aid regulations and applicants are not exempt from the university's Satisfactory Academic Progress Requirements. Financial aid requirements at the time of application will apply. Therefore, a Fresh Start applicant should contact the financial aid office prior to submitting their request for the Fresh Start Program.

## 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 30 semester hours. Undeclared students should consult with their advisors, the academic department representative for the intended major, and placement counselors 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 30 credit hours.

## Class Attendance Policy and Procedure

### POLICY

1. Students are expected to attend each and every class meeting in its entirety. Faculty members shall maintain a record of classroom attendance throughout the semester. 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 documented by medical personnel, university activities approved by the appropriate vice president or designee, and/or for personal exigencies. University activities to be recognized as an excused absence include but are not limited to: scheduled athletic competitions, academic competitions, etc., in which the student is a participant. Other situations to be recognized as excused 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. Students with excused absences are permitted to make-up and are responsible for all missed assignments without penalty. In cases where there have been significant absences, the student should consult with the instructor and academic advisor to determine if completion of course requirements are possible or reasonable.
3. Faculty members are encouraged to consider unexcused absences in their grading. Unless otherwise provided in writing in the course syllabus, and approved by the Provost, 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; however, this shall not excuse the student from any stated deadlines for assignments or other work in the course and the student is responsible for completing all course requirements missed as provided in the syllabus. The instructor shall indicate in the course syllabus the ramifications of unexcused absences beyond that which is allowed hereunder. Individual programs requiring alternative attendance policies must be approved by the Dean of the school or college.

### PROCEDURES

1. All faculty shall keep attendance records throughout the semester/session.
  - First Day Attendance: This policy establishes a presumption that if a student misses the first day of class without having made arrangements with the course instructor, they do not intend to remain in the class. The Registrar will administratively drop such students for non-attendance after receiving attendance data from the faculty. This will allow course seats to be made available for other students who wish to register, and will assist in identifying non-attending students so that financial aid may be returned to the U.S. Department of Education in a timely fashion.
  - Class Roster Verification at the end of the Drop-Add Period: The faculty will verify course rosters at the end of the add/drop period. This verification affirms that the listed students have been involved in academically related activities associated with the course. For online courses, the instructor of record will advise students to log into the course and begin course activity during the add/drop period.
    - o Notification of the roster verification will be provided by the Registrar with instructions on how to report non-participants. Students registered but not attending will be reported as non-attends and will be removed from the roster.
  - A third verification of the course roster will be accomplished at the time of midterm grade entry.
    - o All faculty will report midterm grade information using online grade entry through SCOTS.
  - Grades earned as of midterm will be reported as appropriate for students.
  - Students registered but not attending will be given a grade with a last date of attendance.
  - A review of students receiving the lapsed attendance dates will be completed to determine if the student should be withdrawn from the course or maintain registration.
  - The final verification of the course roster will be accomplished at the time of final grade entry.

### F AND UF GRADES

The United States Department of Education considers students to have "earned" failing grades if they participated in class beyond the 60% point of the course's scheduled meeting time. For regular semesters, the 60% point is the end of the ninth week of classes. If students stop attending prior to the 60% point and do not officially withdraw from the course, the resulting failing grades are considered "unearned."

To aid in compliance, Edinboro University will use F and UF grades to indicate "earned" and "unearned" course failures consistent with this reporting requirement:

- Faculty should assign "UF" to students who stopped attending class before the 60% point of the semester.
- Faculty should assign "F" to students who attend beyond the 60% point of the semester but fail to meet the requirements to pass the course.

### DATE OF LAST ATTENDANCE (FAILING GRADES ONLY)

For all students assigned failing grades at the end of the semester (UF or F), the faculty must include a date of last attendance for each student. This date allows Edinboro to compute the portion of each student's financial aid that must be returned to the federal government. Return of aid is required for any student who stopped attending prior to the 60% point of the semester (and who therefore should have received a UF grade).

For students who completed the semester, the date of last attendance is normally the date of the final examination.

For students who did not complete the semester, the date of last attendance can be established by classroom attendance records or through records of students' participation in activities such as the following: tests, quizzes, assignment submissions, online discussion posts, or any other meaningful interaction with the faculty. The following guidance is provided in federal regulations:

#### **ACADEMICALLY RELATED ACTIVITY FOR FACE TO FACE INSTRUCTION (FSA 5-59)**

Academically related activities include, but are not limited to:

- Physically attending a class where there is an opportunity for direct interaction between the instructor and students.
- Submitting an academic assignment.
- Taking an exam, an interactive tutorial, or computer-assisted instruction.
- Attending a study group that is assigned by the university.
- Participating in an online discussion about academic matters.
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course.

Academically related activities *do not include* activities where a student may be present but not academically engaged, such as:

- Living in institutional housing.
- Participating in the university's meal plan.
- Logging into an online class without active participation.
- Participating in academic counseling or advisement.

#### **ACADEMICALLY RELATED ACTIVITY FOR DISTANCE EDUCATION COURSES (FSA 5-60)**

In a distance education context, documenting that a student has logged into an online class is not sufficient, by itself, to demonstrate academic attendance by the student. A school must demonstrate that a student participated in class or was otherwise engaged in an academically related activity. Academically related activities in a distance education course include, but are not limited to:

- Student submission of an academic assignment.
- Student submission of an exam.
- Documented student participation in an interactive tutorial or computer-assisted instruction.
- A posting by the student showing the student's participation in an online study group that is assigned by the institution.
- A posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters.
- An email from the student or other documentation showing the student initiated contact with a faculty member to ask a question about the academic subject studies in the course.

1. Financial Aid will review the last date of attendance (last date of academically related activity) for each student who receives all UF grades. Return of Title IV funds will be based on the latest date.
2. Faculty shall notify students in writing within the first week of the semester, or the equivalent time during the summer or winter sessions, of the grading consequences of class attendance/non-attendance.
3. It is the responsibility of the student to provide to the instructor, in advance when possible, documentation for all excused absences.
4. A student participating in an official university activity shall obtain a letter from the appropriate University official or his/her designee authorizing the absence and provide it to the course instructor, in advance.

5. A student with an excused absence shall promptly arrange with the course instructor for making up missed assignments, in advance of the excused absence whenever possible.

## **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.

### **PROCEDURE FOR FINAL EXAMS**

If a student has two examinations scheduled at the same time or more than two examinations in one day, the student should try to resolve the conflict with the instructors involved. If the problem cannot be resolved, the final for the class with the highest course number will be rescheduled.

## **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.
2. 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.
3. 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 be 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 8th 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 8th day of the semester. Courses dropped during this period will not be entered on a student’s academic record.

After the 8th 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 (this fee does not apply to 1st semester freshmen and students doing a total withdrawal from all courses).

## Withdrawal From All Courses

1. 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.
2. 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.
3. No withdrawals are permitted once the final exam period has begun.
4. 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.
5. 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 Student Accounts 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.

## Priority Registration

Priority class registration is defined in the following three tiers.

The following students (Tier 1) will receive priority registration above all other students, beginning at 6:00 AM on the first day of registration:

1. Students registered with the Office for Accessibility Services
2. University Honors Students
3. Graduate Level Students
4. Paid deposit new freshmen and transfer students (for the upcoming semester)

The following students (Tier 2) will receive priority registration 24 hours in advance of their cohort:

5. Adult students registered with the Office of Transfer and Adult Student Services for priority registration
6. Student Athletes
7. Veterans

The following students (Tier 3) will receive priority registration 12 hours in advance of their cohort:

8. Music students
9. SGA Members
10. Student Trustee to the Edinboro University Council of Trustees
11. University Senate Members
12. Contracted ROTC Cadets
13. Living-Learning Scholars
14. Students in Theatre Productions

### DEFINITIONS

The following student groups are granted priority:

**Students registered with the Office for Accessibility Services.** Students with documented disabilities are provided an opportunity to establish a class schedule that will accommodate their physical and academic needs. Some students require time between classes due to mobility limitations or testing accommodations. Others may need a balance in the types of classes or additional time to secure specific academic accommodations (sign language interpreters, textbooks in alternative format, note-taking services.) Priority registration provides an opportunity for students with disabilities to secure a class schedule that minimizes the limitations of their disability.

**University Honors Students.** This includes all students who are members of the University Honors College in good standing. Honors classes are scheduled each semester and Honors students are required to participate in these special sections and need priority so as to enable their schedule to accommodate them. This priority is also recognized as a benefit for participation in this program.

**Veterans.** Veterans and members of the military who are eligible for special priority registration need to meet the following requirements as defined in PA Act 46:

- a) The student has served, or is currently serving, in the United States Armed Forces, including a reserve component and National Guard.
- b) The student was discharged or released from such service under conditions other than dishonorable.
- c) The student has been admitted to Edinboro University.
- d) The student resides in Pennsylvania while enrolled at Edinboro University.

Documentation verifying the above eligibility must be submitted to the Veterans Success Center for review at least one month before the start of the pre-registration date before the student's starting semester. This will ensure processing for priority registration. Required documentation is defined as follows.

Military Members currently serving on Active Duty Service (including Active Guard or Active Reserves):

- A copy of the military orders which verify:
  - o Active duty military status or activation of reservist/guard member; and
  - o Work location/duty station; and
- Copy of military identification card issued by the U.S. military.

Military Members Discharged from Active Duty Service:

- DD-214 Member 4 “Certificate of Release or Discharge from Active Duty”

Military Members currently serving in the National Guard or Reserve Component:

- DD-214 Service 7 “Certificate of Release or Discharge from Active Duty”; or
- Copy of military identification card issued by the U.S. Military.

Military Members who formerly served in the National Guard or Reserve Component:

- DD-214 Member 4 “Certificate of Release or Discharge from Active Duty”; or
- DD-214 Service 7 “Certificate of Release or Discharge from Active Duty”; or
- NGB-22 “National Guard Report of Separation and Record of Service”

Military members and veterans face unique obstacles that can often delay their pursuit of higher education. These obstacles may include involuntary mobilizations for overseas tours of duty, required military training, and disaster relief. In addition, these students often fund their university education through the use of earned federal and state benefits which expire after a limited amount of time. Further, long delays in processing these benefits often cause hardships for these students. The aim of granting priority registration to military members and veterans is to allow greater ability to make progress toward their degree requirements during their often intermittent periods of university study and to lessen the delay in receiving the benefits they have earned.

The Pennsylvania Department of Education states that Act 46 of 2014 requires public institutions of higher education in Pennsylvania to provide veteran students, as defined in the Act, with preference in course scheduling. Non-compliance may be reported to the Pennsylvania Department of Education by submitting the Higher Education Student Complaint form found at [www.education.state.pa.us](http://www.education.state.pa.us).

Adult Students registered with the Office of Transfer and Adult Student Services for priority registration. Many adult students must schedule their classes around other major life responsibilities such as children and employment. In order to take advantage of the early registration process, adult students must be registered and approved for priority registration through the Office of Transfer and Adult Student Services.

Other officially recognized University groups and programs. Other student groups recognized for priority registration include student athletes, SGA members and University Senate representatives; music students enrolled in ensembles or applied lessons, students in theatre productions, scholars in residence hall living-learning communities, ROTC students on contract and the student member of the University Council of Trustees. Many students are asked to represent the University at, or regularly participate in, officially-recognized activities. These students often find that there is a conflict between these activities and their class schedules; priority registration allows these students some ability to reduce these conflicts.

#### **ELIGIBILITY AND PROCESS FOR APPROVAL OF ADDITIONAL STUDENT GROUPS**

Other student groups or cohorts seeking priority registration status must have the program advisor or administrator submit a request to the Provost and Vice President for Academic Affairs (VPAA) containing the following information:

1. Group or cohort designation
2. Reason for request
3. Evidence of need for priority registration

Eligibility for priority registration will require that:

1. Participation or membership in the student group is clearly defined; and
2. The student group exhibits evidence that priority registration will have a positive impact on academic progress and help alleviate scheduling difficulties inherent in membership in the student group.

The Provost reviews requests from groups seeking priority registration and such requests must be received by the Office of the Provost/VPAA by September 15 to be considered for priority registration for the next academic year. The Provost/VPAA will notify the Registrar of newly approved student groups for priority registration. The Registrar will then notify the appropriate department or program administrator to provide a list of students eligible for priority registration a minimum of one month prior to the start of the next term’s registration period. Documented student members will be eligible to register during the designated priority registration period.

**RELATED:** Higher Education Course Scheduling Preference for Veteran Students Act (Act 46 of 2014)

### **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 College 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 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 academic advisor 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 must pay the Student Accounts's Office the established course credit tuition and fees for auditing courses.
7. Students age 62 or older will receive full tuition and fee waiver for courses taken for audit only. The tuition and fee waiver does not apply to courses taken for college credit. Sundry charges, as defined in the catalog, will apply as appropriate. Students must work directly with the Registrar and are scheduled for classes one week prior to the start of the semester/term based upon seat availability.
8. Petitions for credit by competency examinations will not be honored for courses audited by students.
9. Undergraduate special and degree seeking students are permitted to audit 30 semester hours of credit. Graduate special and degree seeking students are permitted to audit a maximum of 9 semester hours of credit.

## Transfer Students and Advanced Standing

A student who has attended other post-secondary institutions 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. Official transcripts from other colleges and universities submitted for admission and evaluation of transfer credit must be received directly from the institution, and contain the signature of the registrar (or other appropriate person) and official seal of the institution.

Upon admission to the University, review and acceptance of academic credits for transfer is performed by the Undergraduate Admissions Office in consultation with department chairs and academic deans, as appropriate. Edinboro University accepts credits in transfer from institutions of higher education which are accredited by regional accrediting bodies. 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.

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 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).

Regardless of credits transferred, all first baccalaureate degree students will take at least 30 of their last 60 credits at Edinboro University. Students seeking an associate degree must complete at least 15 of their last 30 credits at Edinboro University. All first baccalaureate and associate students will take at least 50% of the credits required for the major from a PA State System University.

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 (Elective credit may be awarded for valid academic courses for which the University has no equivalent); 2) courses completed at other colleges or universities in which grades below C- were earned (with the exception of the Academic Passport described in the section below).

## Academic Passport

Students who earn the AA or AS degree in a transfer or college parallel program from an accredited public Pennsylvania community college, and PA State System University transfer students who have attained a GPA of 2.0 or higher in a minimum of 12 credit hours of college level coursework, shall be considered to hold an Academic Passport. Such students 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 non-transfer students. 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.

## Two Year Transfer (2 + 2 Agreements)

Edinboro University has transfer agreements called articulation agreements with a number of community colleges in Pennsylvania. These agreements, along with statewide articulation agreements developed by the Transfer and Articulation Oversight Committee (TAOC), 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 at the community college and at the University 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."

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.



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 3675.

## Join ROTC and the National Guard or Army 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. It's called the Simultaneous Membership Program (SMP). If you take advantage of this program, you'll serve as an officer candidate in a Guard or Reserve unit and perform duties commensurate with the grade of second lieutenant. And once you are graduated and commissioned as an Officer, 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 at or 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 Academic Success Center.

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 Transfer and 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 Transfer and 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 Transfer and 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 and awarding of credit are complete, the Office of Transfer and Adult Student Services will post any credits to the student's transcript and any fees to the student's student account.

## Academic Recognition and Honors

### Dean's List

Undergraduate degree students who achieve high academic standards will be identified by placement on the Dean's List.

- 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) during an academic semester or summer session and who earn a quality point average of 3.40 or better for the semester or session are identified for that semester/session as Dean's List students providing no grade of D+, D, D-, F, I, or R is earned.
- Undergraduate students who earn less than twelve semester hours of credit during a given academic semester or winter/summer session may be eligible for the part-time Dean's List under the following conditions:
  - Successful completion of twelve consecutive semester hours in a part-time student status since last being recognized on either the Dean's List or part-time Dean's List with a quality point average of 3.40 or better, with no grades of D+, D, D-, F, I, or R.
  - Courses taken for a satisfactory/unsatisfactory grade or courses being repeated are not included in Dean's List calculations, nor do they count toward the 12 credits needed for meeting the requirements of 2.a.
- If I or R grades are changed prior to the deadline outlined in the University Catalog, students will then be identified as Dean's List candidates, provided they meet all other qualifications for Dean's List recognition, above.

### University Academic Honors Convocation

The University Academic Honors Convocation is held during the spring and fall semesters to recognize student academic achievement. Honorees include individuals who will graduate with academic honors at the May and December Commencement ceremonies, students completing the requirements from the Edinboro University Honors College, Outstanding Departmental Graduates and other special award recipients,

## Honors at Graduation

### BACCALAUREATE DEGREE STUDENTS:

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 or winter session), since these events are held prior to issuance of final grades for the semester in which the events 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, a student must have attempted and earned at least 45 semester hours of credit upon graduation from Edinboro University of Pennsylvania and have earned a cumulative grade point average (GPA) of at least 3.40 (4.00 scale) for all credits graded on the A through F scale earned at Edinboro University.
- An Edinboro University student who has earned his/her 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 GPA is at least 3.40 (4.00 scale) for all credits graded on the A through F scale and earned at Edinboro University. This GPA will be calculated utilizing all credits earned at Edinboro University after the conferral of the first baccalaureate degree.
- The University does not consider grades of S (satisfactory) or AU (audit) in the determination of the cumulative GPA.
- Credit earned through the following mechanisms are not used in the calculation of the cumulative GPA: transfer credit, competency examination satisfactorily completed, life experience, military service experiences, and CLEP examinations.
- This procedure applies to all students: 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 from Edinboro University.
- Special exceptions may be granted for unique programs at the discretion of the President or designee. Students meeting the qualifications for honors at graduation receive Cum Laude recognition if their cumulative GPA is between 3.40 and 3.59, Magna Cum Laude if their cumulative GPA is between 3.60 and 3.79, or Summa Cum Laude if their cumulative GPA is between 3.80 and 4.00.

### ASSOCIATE DEGREE STUDENTS

To be eligible for recognition, an associate degree student must have attempted and earned at least 15 of their last 30 credits at Edinboro University. The determination for the "Associate Degree with Distinction" designation will be based upon a student's academic record at the conclusion of the semester (or summer or winter session) prior to graduation. The minimum cumulative GPA required to receive this recognition will be a 3.40 and must be based on a minimum of 15 credits earned at Edinboro University. Credit earned through the following mechanisms are not used in the calculation of the cumulative GPA: transfer credit, competency examination satisfactorily completed, life experience, military service experiences, and CLEP examinations. Students receiving the designation of "Associate Degree with Distinction" will be invited to attend the Academic Honors Convocation.

Students receiving the designation of “Associate Degree with Distinction” will be invited to attend the Academic Honors Convocation if a May graduate. Any student meeting this requirement will receive a pin to be worn on their gown at the Commencement ceremony and will be recognized in the Commencement booklet. This recognition is not included on the student’s diploma or official transcript.

**RELATED POLICIES:** SA-047 Graduation Residency Requirements, PASSHE, BOG System Academic and Financial Procedures

## Graduation Review and Commencement

### INTENT

The intent of this policy is to establish academically sound grade and residency (enrollment) requirements for graduation from Edinboro University.

### POLICY

In order to be eligible for graduation in a baccalaureate degree program, students must:

1. Complete a minimum of 120 semester hours with a C average (2.0 grade point average) or as specified by degree program requirements.
2. Demonstrate competency as defined for the major degree program.
3. Complete at least 30 of their last 60 credits in courses scheduled by the University.
4. Complete a minimum of 42 semester hours of upper level courses.

In order to be eligible for graduation in an associate degree program, students must:

1. Complete a minimum of 60 semester hours with a C average (2.0 grade point average) or as specified by degree program requirements.
2. Demonstrate competency as defined for the major degree program.
3. Complete at least 15 of their last 30 credits in courses scheduled by the University.

Student completing an undergraduate certificate program must:

1. Take at least 50% of the credits required for the certificate in courses from a State System University with a C average (2.0 grade point average) or as specified by the certificate requirements.

In order to be eligible for graduation with an undergraduate minor program, students must:

1. Take at least 50% of the credits required for the minor in courses from a State System University.

### Undergraduate Active-Duty Service Members:

As a military friendly institution, the following apply:

- For active-duty service members, the academic residency requirements will not exceed 25 percent of the undergraduate degree program. If the undergraduate degree is available 100 percent online, the academic residency requirements will not exceed 30 percent of the undergraduate degree program.
- For active-duty service members, the academic residency requirements may not include a “final year” or “final semester” requirement. The residency requirement of 30 of the last 60 credits will be waived. This waiver may remain in effect for 1 year following discharge from active duty.
- If the student were able to complete the last credits and courses through another State System University via distance education, and transfer them back to Edinboro University, the program and 120 credit requirements would have been met but not the residency. Waiving the residency requirement ensures the student is not disadvantaged due to their service. In addition, each program is expected to confirm with its respective accrediting agencies the allowable flexibility in order to meet the needs of active-duty service members.

### OTHER INFORMATION

Undergraduate degree candidates desiring to pursue any part of their approved program of studies for the degree at another institution should refer to policy A019. Graduating students must complete an online graduation application by the specified date of the regular (fall or spring) semester, or by the established deadline for summer graduation.

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

**Reference:** Pennsylvania State System of Higher Education, Procedures and Standards for University Operations, Number 2016-24, Graduation Residency Requirements; EU Policy A019, Undergraduate Transfer Standards; A028, Evaluation of Credits Over Ten Years Old.

### 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 and Vice President for Academic Affairs (or his/her designee) may authorize a student who will complete undergraduate degree requirements during the wintersession following the winter commencement, or the summer session following the spring commencement, to participate in the relevant commencement ceremony, even though University requirements have not yet been met. The actual diploma will not be issued until all University requirements have been completed.

1. Students interested in applying for commencement walk-through privileges request an application from the Office of Records and Registration. Completed applications must be returned to the Office of Records and Registration by November 1 for winter commencement, and April 1 for spring commencement. Failure to do so may result in the omission of the student's name from the printed program, even though the student may have received permission to attend.
2. Students secure a recommendation on the request to walk through commencement from each of the following: academic advisor, department chairperson, and dean of their school, in the form of a signature on the application. The application is then forwarded to the Office of the Provost and Vice President for Academic Affairs.
3. The Provost and Vice President for Academic Affairs (or his/her designee) renders the decision to approve or disapprove all applications. Approval, if granted, will be conditional upon: the rationale for the walk-through request; verification that remaining required courses are scheduled for either wintersession or summer at the time of application; clearance of the degree audit process; and submission of an application for winter or summer graduation. Permission to walk through commencement will be revoked if the applicant alters his/her class schedule to remove remaining required courses.
4. The Provost and Vice President for Academic Affairs notifies the Office of Records and Registration and the applicants regarding approval or disapproval of the requests.

Policy No. C039

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. Any Edinboro student can take all of the ROTC classes and earn a minor in Adaptive Leadership & Military Studies without incurring any military obligation. 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. 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 of \$420 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. 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 of \$420 while enrolled as full-time students.

### **US ARMY RESERVE (USAR) AND ARMY NATIONAL 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 HOUSING SCHOLARSHIPS**

When funds are available, Edinboro University ROTC awards Housing 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
- 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**

### **Student Success Center**

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

The Student Success Center, as part of University-wide effort to improve student success, retention and graduation goals, provides:

- Student 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 support students exhibiting academic difficulties
- Advising assistance for all undeclared majors on campus, including exploration of opportunities within degree programs

## 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. This service provides web-based tutoring that supplements EU's existing peer tutoring, and is available to provide assistance 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 the tutoring icon in the Edinboro University portal as well as through D2L.

More information about tutoring can be found in the portal by clicking the tutoring icon or by searching 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. The undeclared advisors work closely with the Office for Career Development and Experiential Learning 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 30 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 Office for Career Development and Experiential Learning for more information.

## The Office of Continuing Education

The Office of Continuing Education provides professional development courses, personal enrichment activities and customized programs for the community and provides workforce and economic development grants to area manufacturing and technology companies as the Northwest Pennsylvania administrative partner for WEDnetPA, a program funded through the Department of Community & Economic Development (DCED).

These programs, 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 continuing education activities are provided through seminars, workshops, courses and training using University expertise and resources. In addition, the University partners with Cengage Learning to provide online short training courses and career development programs (many with national certifications). These online programs can be accessed anywhere.

The community is encouraged to contact the Director of Continuing Education and Workforce Development at 814-732-1420 to inquire about any cooperative learning ventures.

## Edinboro University Honors College

The Edinboro University Honors College provides opportunities for high-achieving students to extend their intellectual and creative talents beyond conventional university offerings. It is an elite academic program designed for students who want to enrich their University studies through a series of specially designed Honors seminars with an accompanying capstone course, as well as Honors sections of existing courses. In addition, students can pursue self-directed and independent activities commensurate with their abilities. Such activities could lead to public presentations on campus or at regional and national conferences. Honors students develop independence and initiative, and work closely with outstanding university professors. As members of the Honors community, students also have the chance to foster close friendships with outstanding peers from a wide range of disciplines and majors.

Academically qualified, admitted freshmen with a minimum 1200 SAT or 25 ACT and a 3.5 GPA, or 1100 SAT/23 ACT and a 3.75 GPA, will receive an automatic invitation to join the University Honors College. No separate application is required. Incoming students who meet these criteria, and wish to accept the invitation, must contact the Honors Office. Incoming students with a minimum 1060 SAT/21 ACT and 3.5 GPA are invited to complete the Honors application form, available online, which includes an essay component. Current Edinboro University students with a GPA of at least 3.4 may apply. The University has developed a scholarship program to assist students enrolled in the Honors College. Scholarships are awarded based on the merits of the applicants; acceptance does not guarantee a scholarship.

Honors graduates receive special recognition at the Honors Convocation and Commencement ceremonies. Their transcripts and degree diploma indicate they have fulfilled the requirements of the Edinboro University Honors College.

Honors students in good standing receive preferential scheduling privileges. They also have the opportunity to be a part of the Honors Living-Learning floor in the Highlands 1 residence hall but are not required to live there. A limited number of housing scholarships are available.

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 College. Additional study abroad experiences are available each year.

The Edinboro University Honors College is a member of the National Collegiate Honors Council.

Additional information may be obtained by contacting the director of the Edinboro University Honors College, located in 239 Baron-Forness Library, 814-732-2981.

## Pre-Professional Programs

Students intending to enter advanced or post-baccalaureate study in law or the medical professions are provided special advisement and assistance at Edinboro University. While most professional schools do not technically require that a student receive a degree in a specific field, students seeking a post-graduate degree often benefit from getting a degree, taking specific coursework and developing some field-specific competencies. To help students maximize their preparation for graduate school, Edinboro University designates advisors who work with students looking to enter various professional fields.

Information concerning preparation for a career in law is contained in the Department of History, Politics, Languages and Cultures section of the catalogue. Information concerning the medical professions is contained within the Department of Biology section..

## 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.

To meet the needs of today's information consumers, 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 online resources 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 materials in the library. 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. To obtain materials not available locally, library users have access to the holdings of 60+ academic libraries in the region with the "EZBorrow" shared library catalog and "RapidILL", a system for obtaining periodical content quickly and efficiently.

To aid in the use of Library resources, library faculty are available Monday through Friday 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 a computer lab with standard productivity software and courseware applications. Both black and white and color printing are available in the lab. In addition to the desktop PCs, the library maintains laptop computers that can be checked out and used by students anywhere in the building along with notebook computers that can be used outside of the library.

The library is organized to allow students and faculty easy access to library materials. The open stack plan allows researchers direct access to the collections. 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 24-hour study room 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.

The library maintains a presence on Facebook (@baronfornesslibrary) as well as Twitter (@baronforness). Visit these pages for announcements about resources and services and photos of recent events.

## Information Technology Services - ITS

With state-of-the-art facilities and services, Edinboro University 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 over 60 computer labs with a variety of hardware and software. A number of academic departments operate their own computer labs in conjunction with ITS. All computer labs are connected to the campus network and the Internet.
- 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. One distance education classroom links 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 Technology Help Center is located in the upper level lobby of Ross Hall near the entrance to the pedestrian bridge. All students can receive assistance with technology issues by stopping in, calling, or scheduling an appointment. Services available to students include:

- residence hall internet
- 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 cloud storage for their academic files. Their e-mail and cloud storage can be accessed via a web browser at any time and from anywhere in the world.
- The myEdinboro portal and Mobile Edinboro app along with the newly redesigned Edinboro.edu complement each other to provide a full service web experience for students of Edinboro University. Applications available include notification messages and alerts, 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 including financial transactions.
- 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 the Technology Help Center 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 LEADER SPEECH AND HEARING CENTER** provides speech-language pathology services for individuals with communication differences and disorders. A wide range of services are provided for children and adults with needs in the areas of articulation, phonology, accent modification, augmentative and alternative communication, fluency/stuttering, voice, motor speech, receptive and expressive language, and cognition. Clients are seen on a regular basis and are accepted from within the University and the community at large.

The Leader Speech and Hearing Center is an out-patient clinic providing services at no cost to clients. The Center serves as a supervised training ground for graduate students enrolled in the Master of Arts in Speech-

Language Pathology Program. 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 Pennsylvania licensure.

Any interested student or University employee may obtain additional information by contacting the Leader Speech and Hearing Center Office at [leadercenter@edinboro.edu](mailto:leadercenter@edinboro.edu) or 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 Information Technology Services, the services are divided into the following key areas.

**CLASSROOM TECHNOLOGY**, provides 1st line support for all classroom technology on campus.

**DISTANCE EDUCATION**, provides support, and training of online technologies used by students and faculty.

**EVENT AV**, maintains and supplies AV equipment and staff for events on campus

**FACULTY DEVELOPMENT CENTER (FDC)**, an instructional technology resource available to Faculty 24/7.

**MEDIA SERVICES**, supports all video conferencing technologies on campus, maintains a studio to record and edit AV content.

**PROFESSIONAL DEVELOPMENT**, working in conjunction with the Center for Faculty Excellence (CFE), provides individual and group training events, 3rd party training resources.



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, Humanities, and Social Science, The College of Science and Health Professions, the School of Business, and the School of Education. The departments and instructional programs of the University are organized within these colleges and schools and are so listed herein.

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

## General Education/Liberal Education Curriculum

General Education is the part of the undergraduate experience that crosses all boundaries, supporting a broad education for all students supporting critical thinking and problem solving.

In addition to the development of 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.

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 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 CSC1104, testing out of CSC1104, 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 CSC1104 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 Research Writing **or**  
ENGL104 Research Writing-Advanced 3 sem. hrs.
  3. MATH104 Finite Mathematics **or higher** \* 3 sem. hrs.
  4. Computer Competency \* 3 sem. hrs.  
CSC1104 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<br>(Art History, Communications, English, Foreign Languages, Music, Philosophy, and Theater)   |              |
| 2. Social and Behavioral Sciences<br>(Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology,)  |              |
| 3. Natural Science and Mathematics<br>(Biology, Chemistry, Computer Science, Geology, Mathematics, and Physics)  |              |
| TOTAL  | 42 sem. hrs. |

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.

## 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.

### ENGL102: Research Writing (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 Research Writing 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.

### **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:
  - 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.

### **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  | Research Writing             | 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   | Research Writing             | 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, 2019)

### Computer Competency

- |         |  |
|---------|--|
| ACCT221 | Accounting Information Systems         |
| ARED283 | Digital Culture in the Arts            |
| ART249  | Computer Animation I                   |
| ART258  | Graphic Design Software                |
| 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            |
| DSCI101 | Intro to Data Analytics              |
| GEOG413 | Geographic Information Systems       |
| HPE384  | Technology Integration in HPE        |
| JOUR226 | Digital Media Design                 |
| JOUR326 | Intro to Electronic Layout           |
| JOUR327 | Editing                              |
| JOUR417 | Advanced Digital Media Design        |
| MUED216 | Methods/Elem. General Music          |
| PSYC227 | Experimental Psychology              |
| SEDU283 | Technology for Teaching and Learning |

### Core

- Artistic Expression
 

|           |   |
|-----------|---|
| ARHI105   | Overview of Western Art History   |
| ARTT200   | Art for Personal Wellness   |
| COMM213   | Introduction to Performance Studies   |
| ENGL115   | Introduction to Literature  |
| ENGL117   | Introduction to Fiction   |
| ENGL118   | Introduction to Poetry  |
| ENGL119   | Introduction to Creative Non-Fiction  |
| FYE 10102 | Gothic Literature   |
| FYE10103  | The Literature of Baseball  |
| FYE10104  | Horror Fiction as Social Critique-Vampires, and Werewolves, and Zombie-Oh My! |
| FYE10105  | Literature and the Atomic Bomb  |
| FYE10106  | Literature from Outer Space   |
| FYE10107  | Performing Gender   |
| FYE10109  | Harry Potter  |
| FYE10110  | The Graphic Novel-Exploring History, Art, & Writing                           |
| FYE10111  | Designing Pop Culture   |
| FYE10112  | Origami-The Art of Paper Folding  |
| FYE10113  | Introduction to Animation   |
| FYE10114  | The Graphic Novel as Literature   |
| MUSC101   | Jazz, Pop and Rock  |
| MUSC103   | Introduction to Music   |
| THEA202   | Play Analysis   |
| THEA218   | Introduction to Theatre   |
- World Civilizations
 

|          |  |
|----------|--|
| ARHI207  | Non-Western Art History                                      |
| FYE10201 | The Resistance in the Holocaust                              |
| FYE10202 | Famous Feuds in History                                      |
| FYE10203 | Pirates, Privateers, and Buccaneers- A History               |
| FYE10204 | The Historical Jesus   |
| FYE10205 | Well-Behaved Women Rarely Make History-Heretics and Heroines |
| FYE10206 | The Evolution of Culture, Technology and Media               |
| GEOG101  | World Geography  |
| GEOG130  | Cultural Geography   |
| HIST101  | World Civilizations I  |
| HIST102  | World Civilizations II                                       |
| HIST103  | Twentieth Century World                                      |
| HPLC100  | Disasters and Catastrophes                                   |
| POLI100  | Introduction to Politics                                     |
| POLI102  | Introduction to Comparative Politics                         |
| POLI103  | Introduction to Global Politics                              |
| SOC120   | Sociology of Globalization                                   |
| WRLD100  | Introduction to World Languages and Cultures                 |

3. American Civilizations
- |          |   |         |  |
|----------|---|---------|--|
| ECON100  | Elements of Economics   | RUSS100 | Introduction to Russian Language and Culture |
| ECON101  | Wealth Building and Money Management  | RUSS101 | First Course in Russian                      |
| ENGL116  | American Prose Classics   | SOC100  | Principles of Sociology                      |
| FYE10301 | Salem Witch Trials  | SPAN100 | Introduction to Spanish Culture              |
| FYE10302 | Reproductive Politics   | SPAN101 | First Course in Spanish                      |
| FYE10303 | College-What, Why, and How?   | WMST204 | Introduction to Women's Studies              |
| FYE10305 | Hip-Hop, Rap, Politics and Action   |         |  |
| FYE10306 | The History of Hip Hop  |         |  |
| FYE10307 | American Visions  |         |  |
| FYE10308 | Graffiti, Lowriders, and Tattoos-Latino/a Popular Art in the U.S.               |         |  |
| FYE10309 | Superheroes, Comic Books, and Politics  |         |  |
| FYE10310 | America's Natural Resources-Past, Present and Future of Conservation in the USA |         |  |
| 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  | Human Communication & Modern Society  |  |  |
| COMM125  | Communication and Social Influence  |  |  |
| CSD125   | Psychology of Communication   |  |  |
| FYE10401 | Language of Power and Terror  |  |  |
| FYE10402 | The Lyrics of Bruce Springsteen-A Rhetorical, Cultural, and Critical Analysis |  |  |
| FYE10403 | Lead the Way—Leadership Theory and Application                                |  |  |
| FYE10404 | Watching <i>The Wire</i>  |  |  |
| FYE10405 | Cybors and Social Networks  |  |  |
| FYE10406 | Geek Culture and Fandom   |  |  |
| FYE10407 | Keep an Open Mind   |  |  |
| FYE10408 | Handle Your Stress for Academic Success                                       |  |  |
| FYE10409 | Questioning the World Around Us   |  |  |
| FYE10410 | Making Meaning of Media   |  |  |
| FYE10411 | Psychology of Current Events and Everyday Life                                |  |  |
| FYE10412 | Health Survival Training for Millennials                                      |  |  |
| JOUR214  | Journalism and Society  |  |  |
| LEAD202  | Leadership Studies  |  |  |
| PSYC101  | Introduction to Psychology  |  |  |
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  |  |  |
| FYE10501 | Secrets of the Dead-Dead Bodies in Forensic and Anthropological Context |  |  |
| FYE10502 | Japanese Tea Ceremony   |  |  |
| FYE10503 | The Sociology of Superheroes  |  |  |
| FYE10504 | From Cavemen to Rock Band   |  |  |
| FYE10505 | Martin Luther King, Jr., and Malcolm C-A Comparative Analysis           |  |  |
| FYE10508 | Race, Gender, & the Law   |  |  |
| 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   |  |  |
| MUSC247  | Music, Gender, and Identity   |  |  |
6. Ethics
- |           |  |  |  |
|-----------|--|--|--|
| ANTH106   | Intolerance: A Cultural History of Hate                                |  |  |
| ANTH220   | Museum Ethics  |  |  |
| BIOL200   | Introduction to Bioethics  |  |  |
| FYE10601  | You Make the Call-Controversies and Ethical Issues in Sport            |  |  |
| FYE10602  | Ethical and Cultural Issue in Harry Potter                             |  |  |
| FYE 10603 | So Sue Me! Ownership and Borrowing in Literature and the Visual Arts   |  |  |
| FYE10604  | Does God Exist?  |  |  |
| FYE10605  | Morality, Faith, and the Meaning of Life                               |  |  |
| FYE10606  | People and the Planet-Local to Global Environmental Issues and Choices |  |  |
| FYE10607  | Big Questions  |  |  |
| GEOG145   | Environmental Issues   |  |  |
| HIST105   | The Holocaust on Film  |  |  |
| 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                                   |  |  |
| SOC240    | Social and Ethical Considerations                                      |  |  |
7. Natural Science
- |          |  |  |  |
|----------|--|--|--|
| BIOL100  | Introduction to Biology                                |  |  |
| BIOL150  | Principles of Biology                                  |  |  |
| BIOL210  | Allied Health Human Biology                            |  |  |
| CHEM107  | Forensic Chemistry – Fact and Fiction                  |  |  |
| CHEM115  | Chemistry in the Kitchen                               |  |  |
| CHEM120  | Elementary Chemistry                                   |  |  |
| CHEM140  | General Chemistry                                      |  |  |
| CHEM240  | Principles of Chemistry I                              |  |  |
| FORS100  | Introduction to Forensic Studies                       |  |  |
| FYE10701 | Forensic Chemistry-Fact and Fiction                    |  |  |
| FYE10702 | PA Rocks-The Geology of Pennsylvania                   |  |  |
| FYE10703 | Chemistry of Glass                                     |  |  |
| FYE10704 | The Lion King-African Wildlife and its Conservation    |  |  |
| FYE10705 | The Wacky Weather and Changing Climate of Pennsylvania |  |  |
| FYE10706 | Life at the Erie Zoo                                   |  |  |
| GEOS101  | Dynamic Earth  |  |  |
| GEOS102  | Weather and Climate                                    |  |  |
| GEOS103  | Observing Our Cosmos                                   |  |  |
| GEOS104  | Intro to Earth Environments                            |  |  |
| GEOS109  | Atmospheric and Space 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 |
| ARHI323 | Art of the 20th Century            |
| ARHI332 | Art of the Renaissance             |
| ARHI556 | Early 20th Century Art             |

|         |   |                                   |  |
|---------|---|-----------------------------------|--|
| COMM107 | Public Speaking                                     | RUSS102                           | Second Course in Russian   |
| COMM230 | Organizational Communication                        | RUSS201                           | Third Course in Russian  |
| COMM298 | Business and Professional Communication             | RUSS202                           | Fourth Course in Russian   |
| COMM318 | Interviewing  | RUSS353                           | Russian Literature in English  |
| COMM330 | Advanced Performance Studies                        | SPAN102                           | Second Course in Spanish   |
| COMM331 | Group Performance and Performance<br>Ethnography    | SPAN201                           | Third Course in Spanish  |
| COMM335 | Communicating Difference: Race, Class and<br>Gender | SPAN202                           | Fourth Course in Spanish   |
| COMM340 | Conflict, Power and Communication                   | SPAN307                           | Spanish Conversation and Composition I                               |
| COMM360 | Freedom of Speech                                   | SPAN308                           | Spanish Conversation and Composition II                              |
| COMM415 | Language and Thought                                | THEA203                           | Fundamentals of Acting   |
| COMM416 | Persuasion and Propaganda                           | THEA309                           | Children's Theatre   |
| ENGL201 | American Literature Survey I                        | THEA310                           | Creative Dramatics I   |
| ENGL202 | American Literature Survey II (1865-Present)        | THEA318                           | History of Theatre to 1642   |
| ENGL203 | Creative Writing                                    | THEA319                           | History of Theatre from 1660 to Present                              |
| ENGL206 | Advanced Composition                                |                                   |  |
| ENGL241 | English Literature: Anglo/Saxon                     | 2. Social and Behavioral Sciences |  |
| ENGL242 | English Literature: Roman/Moderns                   | ANTH305                           | Anthropology of Food/Eating  |
| ENGL260 | Literature of the Classical World                   | ANTH310                           | Introduction to Forensic Anthropology                                |
| ENGL305 | Technical Writing                                   | ANTH315                           | Ritual, Magic, and Myth  |
| ENGL310 | African American Literature                         | ANTH364                           | Culture, Illness, and Curing   |
| ENGL311 | Literature by Women                                 | ANTH365                           | Living with the Dead   |
| ENGL315 | Shakespeare I                                       | ANTH369                           | Forensic Archaeology   |
| ENGL319 | Shakespeare II                                      | ANTH371                           | Introduction to Archaeology  |
| ENGL325 | Literature of the Bible                             | ANTH372                           | Cultures of the World  |
| ENGL330 | Literature and Film                                 | ANTH374                           | Indians of North America   |
| ENGL365 | Gender and Identity in Literature                   | ANTH375                           | Cultural Anthropology  |
| ENGL370 | Business Writing                                    | ANTH376                           | Biblical Archaeology   |
| ENGL388 | Mythology   | ANTH378                           | Native America Before Columbus                                       |
| ENGL389 | World Mythologies                                   | ANTH379                           | Early Man in the Old World   |
| FREN102 | Second Course in French                             | ANTH385                           | Introduction to Physical Anthropology                                |
| GERM102 | Second Course in German                             | ANTH390                           | Human Evolution  |
| GERM201 | Third Course in German                              | BUAD328                           | History of International Trade                                       |
| GERM202 | Fourth Course in German                             | COMM308                           | Leadership Communication   |
| JOUR209 | Media Aesthetics                                    | CSD205                            | Exploration in Health Professions and<br>Interprofessional Practices |
| JOUR216 | Beginning Reporting                                 | CSD300                            | Communication Across Lifespan  |
| JOUR264 | Introduction to Mass Media                          | CSD340                            | Advanced Language Development and Analysis                           |
| JOUR365 | Introduction to Public Relations                    | ECON220                           | Principles of Microeconomics   |
| LAS 489 | The Maya Experience                                 | ECON225                           | Principles of Macroeconomics   |
| MUSC201 | Fundamentals of Music                               | ECON301                           | Personal Economics   |
| MUSC211 | World Music   | ECON370                           | Contemporary Economic Problems                                       |
| MUSC240 | Music of Broadway                                   | GEOG300                           | Principles of Urban and Regional Planning                            |
| MUSC241 | Music and Media                                     | GEOG305                           | Basic Cartography  |
| MUSC242 | Country Music                                       | GEOG320                           | Physical Geography   |
| MUSC343 | Evolution of Jazz                                   | GEOG332                           | Political Geography  |
| MUSC344 | American Music                                      | GEOG335                           | Urban Geography  |
| PHIL300 | Ancient Philosophy                                  | GEOG340                           | Economic Geography   |
| PHIL306 | Philosophy in Popular Culture                       | GEOG350                           | Population Geography   |
| PHIL310 | Eastern Philosophy                                  | GEOG365                           | Geography of Latin America   |
| PHIL311 | World Religions                                     | GEOG375                           | Geography of the Middle East   |
| PHIL312 | Black/White: Appearance and Reality                 | GEOG380                           | Geography of Africa  |
| PHIL327 | Beginning Logic                                     | GEOG390                           | Geography of Asia  |
| PHIL340 | Ethics  | GEOG391                           | Field Geography  |
| PHIL346 | Environmental Ethics                                | HIST302                           | History of East Asia   |
| PHIL364 | Sexual Love and Western Morality                    | HIST305                           | China, Past and Present  |
| PHIL402 | History of Modern Philosophy                        | HIST312                           | Middle East II   |
| PHIL405 | Contemporary Philosophy                             | HIST314                           | History of Women in Europe   |
| PHIL410 | Metaphysics   | HIST315                           | History of Women in the U.S.   |
| PHIL411 | Theory of Knowledge                                 | HIST316                           | Women in Non-Western Nations   |
| PHIL420 | Logic   | HIST318                           | Colonial Africa  |
| PHIL425 | Philosophy of Science                               | HIST319                           | Modern Africa  |
| PR265   | Intro to Public Relations                           | HIST323                           | History of Latin America I   |
| PR298   | Business and Professional Communication             | HIST324                           | History of Latin America II  |
|         |   | HIST328                           | History or International Trade                                       |



|         |  |         |  |
|---------|--|---------|--|
| HIST330 | World War II   | 3.      | Natural Science and Mathematics                    |
| HIST333 | History of Terrorism   | BIOL101 | Human Biology                                      |
| HIST334 | History of Christianity  | BIOL102 | Environmental Biology                              |
| HIST335 | History of Sports  | BIOL104 | Introduction to Human Genetics                     |
| HIST336 | History of Religion in America   | BIOL230 | Botany   |
| HIST339 | History of Modern Germany  | BIOL240 | Zoology  |
| HIST341 | History of Nazi Germany  | BIOL304 | Biology of Aging                                   |
| HIST358 | England Since 1815   | BIOL314 | Computers and Life Science                         |
| HIST361 | American Colonial History  | BIOL325 | Human History Science: Guns Germ. Steel            |
| HIST364 | Immigrant Groups   | CHEM141 | Bio-Organic Chemistry                              |
| HIST366 | U.S. Since 1945  | CHEM215 | Chemistry of Sex                                   |
| HIST370 | American Dream on Film   | CHEM216 | Introduction to Fermented Foods Chemistry          |
| HIST373 | Turbulent Sixties  | CHEM230 | General Environmental Chemistry                    |
| HIST375 | U.S. Military History  | CHEM241 | Principles of Chemistry II                         |
| HIST377 | American Urban Development   | CHEM301 | General Organic Chemistry                          |
| HIST378 | American West  | CHEM302 | General Biochemistry                               |
| HIST380 | Pennsylvania History   | CHEM310 | Quantitative Analysis                              |
| HIST382 | The History of Hip Hop: From the Bronx to a Global Phenomenon                    | CHEM330 | Organic Chemistry I                                |
| HIST445 | Beer, Whiskey, and Wine: A History of Spirits and Their Impact on Society        | CHEM331 | Organic Chemistry II                               |
| HIST482 | History of the Old South   | CHEM351 | Natural Products Chemistry                         |
| LAS 489 | The Maya Experience  | CHEM352 | Toxicology   |
| POLI315 | American State and Local Government  | CHEM451 | Isolation and Characterization of Natural Products |
| POLI322 | Public Opinion, Interest Groups, and Propaganda                                  | CSCI204 | Essential Computing II                             |
| POLI335 | American Presidency  | CSCI207 | Programming in Visual Basic                        |
| POLI341 | Government and Politics of Latin America   | CSCI230 | Principles of Programming II                       |
| POLI343 | Law and Legal Systems  | CSCI280 | Principles of System Operation and Administration  |
| POLI345 | Political Systems of Asia and the Far East                                       | CSCI304 | Design and Implementation                          |
| POLI351 | American Foreign Policy  | DSCI201 | Advanced Spreadsheets                              |
| POLI370 | Political Thought I  | DSCI210 | Applied Scientific Programming I                   |
| POLI463 | Civil Liberties  | GEOS301 | Geology of our Nation's Parks                      |
| POLI465 | Constitutional Law   | GEOS302 | Our Hazardous Planet                               |
| POLI544 | Government and Politics of New Nation States and Developing Areas                | GEOS303 | Climate Science                                    |
| POLI548 | U.S.-Latin America Relations: Contemporary Problems                              | GEOS310 | Introduction to Oceanography                       |
| POLI550 | International Law and Organizations  | MATH105 | College Algebra                                    |
| POLI563 | Civil Liberties  | MATH106 | Trigonometry                                       |
| POLI565 | Constitutional Law/Judicial Procedures   | MATH107 | Precalculus  |
| POLI574 | American Political Thought   | MATH203 | Mathematics for Teachers of Children II            |
| PSYC301 | Psychology of Adjustment   | MATH208 | Essentials of Calculus                             |
| PSYC305 | Psychology of Human Sexuality  | MATH209 | Mathematics of Finance                             |
| PSYC317 | Developmental Psychology   | MATH210 | Math Reasoning II                                  |
| PSYC319 | Psychology of Adulthood and Aging  | MATH211 | Analytic Geometry and Calculus I                   |
| PSYC325 | Psychology of Creativity and the Arts  | MATH212 | Analytic Geometry and Calculus II                  |
| PSYC330 | Sport Psychology   | MATH250 | Informal Geometry                                  |
| PSYC350 | Drugs and Human Behavior   | MATH270 | Discrete Math I                                    |
| PSYC355 | Psychology and Law   | MATH275 | Linear Algebra I                                   |
| PSYC360 | Industrial Organizational Psychology   | MATH311 | Analytic Geometry and Calculus III                 |
| PSYC370 | Psychology of Personality  | MATH370 | Discrete Math II                                   |
| PSYC390 | Social Psychology  | PHYS202 | Physics II   |
| SEDU360 | Developmentally Appropriate Secondary Level Features and Instructional Practices | PHYS301 | The Nature of Sound                                |
| SOC207  | Contemporary Social Problems   | PHYS302 | The Nature of Light and Color                      |
| SOC320  | Sociology of Deviance  | PHYS313 | Digital Electronics                                |
| SOC326  | Society and the Individual   | PHYS320 | University Physics I                               |
| SOC340  | Sociology of Marriage and Family   | PHYS321 | University Physics II                              |
| SOC347  | Class, Work, and Society   | PHYS325 | Introduction to Modern Physics                     |
| SOC350  | Healthcare and Society   | PHYS371 | The Solar System                                   |
| SOC364  | Race and Ethnic Relations  | PHYS471 | Relativity, Black Holes and Cosmology              |
| SOC380  | Social Action and Community Organizing   | PHYS472 | The Sun  |
| SOC390  | Sociology of the Life Cycle  | STAT260 | Elements of Statistics                             |
|         |  | STAT300 | Applied Statistical Methods                        |
|         |  | STAT350 | Math Probability and Statistics                    |

# College of Arts, Humanities and Social Sciences

## Art Department

**FACULTY:** Suzanne L. Amendolara, Lisa M. Austin, Shelle Barron, John Bavaro, Geoffrey S. Beadle, Malcolm P. Christilf, Cappy Counard, Diane M. Crandall, Brigitte Davitt, Mark Deka, Francis J. Demaske, Karen Ernst, Jeremy Galante, Michael A. Genz, Charles E. Johnson, Karabo S. Legwaila, David W. Martin, William Mathie, Terrence P. McKelvey, Mary Elizabeth Meier, James Parlin, Bradford Pattullo, Suzanne Proulx, Cassandra Reese, Fred Scruton, Michelle M. Vitali, 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 three degrees: the Bachelor of Fine Arts (B.F.A.), the Bachelor of Arts (Art History; BA), or the Bachelor of Science in Art Education (B.S.A.E.). Art students who are working toward PA teacher certification can work with their advisors to meet the requirements for “simultaneous dual degrees” (for example, earning the Bachelor of Fine Arts (B.F.A.), and the Bachelor of Science in Art Education (B.S.A.E.)). All art education students seeking teacher certification are required to meet Edinboro University’s guidelines for “Admission to Teacher Candidacy.” Students in the B.F.A. program may concentrate in graphic & interactive design, cinema (film & video, traditional animation and computer animation), photography, ceramics, drawing, illustration, jewelry/metalsmithing, painting, printmaking, sculpture, and wood/furniture design. B.F.A. students may elect to have an internship in their career area.

A wide variety of curricular offerings are 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 that 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. We:

- 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.
- Are devoted to excellence in every level of arts education, from Foundations through Graduate Studies, including terminal degrees.
- Are 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 of 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 own 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.

## Bachelor of Arts Degree Art History

|  |                                 |
|--|---------------------------------|
| I. General Education Requirements  | 42 sem. hrs.                    |
| II. Required Art History Courses   | 12 sem. hrs.                    |
| ARHI105  | Overview of Art History (3)     |
| ARHI207  | Overview of Non-Western Art (3) |
| ARHI323  | Art of the 20th Century (3)     |
| ARHI440  | Art History Seminar (3)         |
| III. Art History Period Courses  | 12 sem. hrs.                    |
| ARHI 120-425: Must take one course from each of the 4 groups. See UG catalog |                                 |
| ARHI (3)   |                                 |
| ARHI (3)   |                                 |
| ARHI (3)   |                                 |
| ARHI (3)   |                                 |
| IV. Art History Electives  | 9 sem. hrs.                     |
| May take any upper-level Art History course                                  |                                 |
| ARHI (3)   |                                 |
| ARHI (3)   |                                 |
| ARHI (3)   |                                 |
| V. Foreign Language  | 6 sem. hrs.                     |
| Must be selected from -101 or -102 language course from same prefix.         |                                 |
| VI. Required Studio  | 3 sem. hrs.                     |
| ART (3)  |                                 |
| VII. Free Electives  | 36 sem. hrs.                    |
| <b>TOTAL</b>   | <b>120 sem. hrs.</b>            |

## BACHELOR OF ARTS – ART HISTORY (Suggested Eight-Semester Sequence)

### First Semester

|              |                             |                     |
|--------------|-----------------------------|---------------------|
| ENGL101      | College Writing Skills (3)  |                     |
| ARHI105      | Overview of Art History (3) |                     |
|              | Core (3)                    |                     |
|              | Core (3)                    |                     |
|              | Core (3)                    |                     |
| <b>TOTAL</b> |                             | <b>15 sem. hrs.</b> |

### Second Semester

|              |                                  |                     |
|--------------|----------------------------------|---------------------|
| MATH104      | Finite Math (3) <b>or higher</b> |                     |
| ENGL102      | Research Writing (3)             |                     |
| ARHI207      | Overview of Non-Western Art (3)  |                     |
| ARHI323      | Survey of 20th Century Art (3)   |                     |
|              | Core (3)                         |                     |
| <b>TOTAL</b> |                                  | <b>15 sem. hrs.</b> |

**Third Semester**

|         |  |           |                  |
|---------|--|-----------|------------------|
| CSCI104 | Essential Computing I (3) <b>or discipline specific Computer Competency Course</b> |           |                  |
| ART     | Required Art Studio Course (3)   |           |                  |
| ARHI    | Required ARHI Period Course (3)  |           |                  |
|         | Core (3)   |           |                  |
|         | Free Elective (3)  |           |                  |
|         | <b>TOTAL</b>   | <b>15</b> | <b>sem. hrs.</b> |

**Fourth Semester**

|      |                                 |           |                  |
|------|---------------------------------|-----------|------------------|
| ARHI | Required ARHI Period Course (3) |           |                  |
| ARHI | Upper Level Elective Course (3) |           |                  |
|      | Core (3)                        |           |                  |
|      | Core (3)                        |           |                  |
|      | Free Elective (3)               |           |                  |
|      | <b>TOTAL</b>                    | <b>15</b> | <b>sem. hrs.</b> |

**Fifth Semester**

|      |                                 |           |                  |
|------|---------------------------------|-----------|------------------|
| ARHI | Required ARHI Period Course (3) |           |                  |
| ARHI | Required ARHI Period Course (3) |           |                  |
|      | Foreign Language Course (3)     |           |                  |
|      | Distribution (3)                |           |                  |
|      | Free Elective (3)               |           |                  |
|      | <b>TOTAL</b>                    | <b>15</b> | <b>sem. hrs.</b> |

**Sixth Semester**

|      |                                 |           |                  |
|------|---------------------------------|-----------|------------------|
| ARHI | Upper Level Elective Course (3) |           |                  |
| ARHI | Upper Level Elective Course (3) |           |                  |
|      | Foreign Language Course (3)     |           |                  |
|      | Distribution (3)                |           |                  |
|      | Distribution (3)                |           |                  |
|      | <b>TOTAL</b>                    | <b>15</b> | <b>sem. hrs.</b> |

**Seventh Semester**

|         |                         |           |                  |
|---------|-------------------------|-----------|------------------|
| ARHI440 | Art History Seminar (3) |           |                  |
|         | Free Elective (3)       |           |                  |
|         | Free Elective (3)       |           |                  |
|         | Free Elective (3)       |           |                  |
|         | Free Elective (3)       |           |                  |
|         | <b>TOTAL</b>            | <b>15</b> | <b>sem. hrs.</b> |

**Eighth Semester**

|  |                   |           |                  |
|--|-------------------|-----------|------------------|
|  | Free Elective (3) |           |                  |
|  | Free Elective (3) |           |                  |
|  | Free Elective (3) |           |                  |
|  | Free Elective (3) |           |                  |
|  | Free Elective (3) |           |                  |
|  | <b>TOTAL</b>      | <b>15</b> | <b>sem. hrs.</b> |

**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 B.F.A. degree program; however, these students must apply for Candidacy and be accepted in order to continue in the major. The application for Candidacy in B.F.A. 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 through the Center for Career Development & Experiential Learning. Candidacy guidelines are available on Tartan Edge, the center's online portal. Tartan Edge, found on the Edinboro University website main portal, is also utilized for portfolio submission to each degree concentration.

The B.F.A. is available in the following majors/concentrations:

**MAJOR: STUDIO ARTS**

Concentrations 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.  | Studio Arts Courses (select four of the following):                 |                                 | 12 sem. hrs.         |
|       | ART211  | Metals I (3)                    |                      |
|       | ART216  | Ceramics I (3)                  |                      |
|       | ART221  | Printmaking I (3)               |                      |
|       | ART226  | Sculpture I (3)                 |                      |
|       | ART231  | Painting I (3)                  |                      |
|       | ART236  | Wood Furniture (3)              |                      |
| IV.   | Concentration Courses   |                                 | 18 sem. hrs.         |
|       | II* (3)   |                                 |                      |
|       | Intermediate (3)  |                                 |                      |
|       | Intermediate (3)  |                                 |                      |
|       | Advanced (3)  |                                 |                      |
|       | Advanced (3)  |                                 |                      |
|       | *Cannot be ART107 Drawing II.                                       |                                 |                      |
|       | Students concentrating in Drawing must use a drawing elective here. |                                 |                      |
| V.    | Additional Required Course(s) (3 SH)                                |                                 |                      |
|       | ART395  | Prof. Practices in Studio Arts* |                      |
|       | *Credits are recorded in the General Education Skills section.      |                                 |                      |
| VI.   | Applied Media Arts Elective (select one of the following):          |                                 | 3 sem. hrs.          |
|       | ART251  | Photography I (3)               |                      |
|       | ART258  | Graphic Design Software (3)     |                      |
|       | ART267  | Film and Video Production (3)   |                      |
|       | ART268  | Animation I (3)                 |                      |
| 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.         |                                 |                      |
| VIII. | Art Elect. (Intern., ARED, ARHI, ART)                               |                                 | 18 sem. hrs.         |
| IX.   | Free Electives  |                                 | 6-9 sem. hrs.        |
|       | <b>TOTAL</b>  |                                 | <b>120 sem. hrs.</b> |

At least 42 semester hours must consist of advanced coursework.

**MAJOR: APPLIED MEDIA ARTS**

Concentrations 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 1                         | 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*                        | Animation I (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 & Video)

**CINEMA:**

ART267 Film & Video Production I (3) **or**

ART268 Animation I (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 & Interactive Design

ART301 Principles of Graphic Design (3)

ART305 Typography I (3)

ART310 Typography II (3)

ART326 Web Design (3)

ART327 Corporate Identity (3)

ART431 Movements in Graphic Design (3)

ART432 Publication Design (3) OR

ART430 Motion Design (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.

**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) **or**

ART102 Three-Dimensional Design (3)

ENGL101 College Writing Skills (3)

Core (3)

TOTAL 15 sem. hrs.

**Second Semester**

ART107 Drawing II (3)

ART101 Two-Dimensional Design (3) **or**

ART102 Three-Dimensional Design (3)

ART103 Four-Dimensional Design (1.5) **and**

ART105 Color (1.5)

ENGL102 Research Writing (3)

MATH104 Finite Math (3) **or higher**

MATH203 Mathematics for Teachers II (3)

TOTAL 15 sem. hrs.

**Third Semester**

ART395 Professional Practices in Studio Arts (3)

First Course in Area of Concentration (3)

Required Art Studio Course (3)

Core (3)

Core (3)

TOTAL 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)

TOTAL 15 sem. hrs.

**Fifth Semester**

Intermediate I in Concentration (3)

Required Art Studio Course (3)

Applied Media Arts Elective ART251,

ART258, ART267, **or** ART268 (3)

Core (6)

TOTAL 15 sem. hrs.

**Sixth Semester**

|   |              |
|---|--------------|
| Intermediate Selection in Concentration (3) |              |
| Art Elective (3)                            |              |
| Art Elective (3)                            |              |
| ARHI (3)                                    |              |
| Distribution (3)                            |              |
| TOTAL                                       | 15 sem. hrs. |

**Seventh Semester**

|                                 |              |
|---------------------------------|--------------|
| Advanced I in Concentration (3) |              |
| Art Elective (3)                |              |
| Art Elective (3)                |              |
| ARHI (3)                        |              |
| Distribution (3)                |              |
| TOTAL                           | 15 sem. hrs. |

**Eighth Semester**

|                                  |              |
|----------------------------------|--------------|
| Advanced II in Concentration (3) |              |
| Art Elective (3)                 |              |
| Art Elective (3)                 |              |
| Free Elective (3)                |              |
| Free Elective (3)                |              |
| TOTAL                            | 15 sem. hrs. |

Note: ART267 or ART268 can simultaneously fulfill the Computer Competency requirement and also the Applied Media Arts 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) <b>or</b> |
| ART102  | Three-Dimensional Design (3)         |
| ART103  | Four-Dimensional Design (1.5)        |
| ART105  | Color (3)                            |
| ENGL101 | College Writing Skills (3)           |
| TOTAL   | 15 sem. hrs.                         |

**Second Semester**

|         |   |
|---------|---|
| ART107  | Drawing II (3)                            |
| ART101  | Two-Dimensional Design (3) <b>or</b>      |
| ART102  | Three-Dimensional Design (3)              |
| ENGL102 | Research Writing (3)                      |
| MATH104 | Finite Math (3) <b>or higher</b>          |
|         | First Course in Area of Concentration (3) |
| TOTAL   | 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)     |              |
| TOTAL                                    | 15 sem. hrs. |

**Fourth Semester**

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

**Fifth Semester**

|                                      |              |
|--------------------------------------|--------------|
| Intermediate II in Concentration (3) |              |
| ARHI (3)                             |              |
| Art Elective (6)                     |              |
| Core (3)                             |              |
| TOTAL                                | 15 sem. hrs. |

**Sixth Semester**

|                                 |              |
|---------------------------------|--------------|
| Advanced I in Concentration (3) |              |
| Art Elective (6)                |              |
| Core (6)                        |              |
| TOTAL                           | 15 sem. hrs. |

**Seventh Semester**

|                                  |              |
|----------------------------------|--------------|
| Advanced II in Concentration (3) |              |
| Art Electives (3)                |              |
| ARHI (3)                         |              |
| Distribution (6)                 |              |
| TOTAL                            | 15 sem. hrs. |

**Eighth Semester**

|                       |              |
|-----------------------|--------------|
| Internship (9-15)     |              |
| Free Electives (6-12) |              |
| TOTAL                 | 15 sem. hrs. |

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## Bachelor of Science in Art Education

### Area of Certification – K-12

The Art Department offers a flexible degree program in Art Education with two tracks: Teacher Certification and Community Arts. With emphasis on current theory and application, art education majors can choose a direction that best serves their career goals.

- The Teacher Certification track prepares students for K-12 public school licensure in Art. Students planning to earn Art Education Certification and meet BFA requirements must complete Teacher Candidacy and file a Teacher Certification form with the registrar.
- The Community Arts track offers teaching and leadership skills in arts outreach including museum and community programming.

### Certification in Art (K-12)

|   |   |
|---|---|
| I. General Education Requirements       | 42 sem. hrs.  |
| II. Professional Education Requirements | 33 sem. hrs.  |
|   | ARED283 Digital Culture in the Arts (3)                               |
|   | ARED314 Theory and Practice in the Arts (3)                           |
|   | ARED315 Curriculum and Program Development<br>In the Arts (3)         |
|   | ARED 316 Professional Standards in the Arts (3)                       |
|   | ARED425 The Arts and Inclusion (3)                                    |
|   | ARED475 Arts Field Experience (3)                                     |
|   | ARED495 Student Teaching (3)  |
|   | PSYC101 Introduction to Psychology (3)                                |
|   | SEDU271 Multiculturalism in American<br>Schools** (3)                 |
|   | SPED210 Introduction to Exceptionality (3)                            |
|   | SPED370 Adaptations and Accommodations in<br>Inclusive Classrooms (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  | Overview of Art History (3)     |
|     | ARHI207  | Overview of Non-Western Art (3) |
|     | ARHI323  | Art of the 20th Century         |
|     | ARHI300+   |                                 |
|     | TOTAL  | 126 sem. hrs.                   |

**BACHELOR OF SCIENCE – ART EDUCATION**  
**Teacher Certification Track**  
**(Suggested Eight-Semester Sequence)**

**First Semester**

|         |   |
|---------|---|
| ARHI105 | Overview of Art History (3)               |
| ART101  | Two-Dimensional Design (3) <b>or</b>      |
| ART102  | Three-Dimensional Design (3)              |
| ART106  | Drawing I (3)                             |
| ENGL101 | College Writing Skills (3)                |
| MATH103 | Mathematics for Teachers of Children I(3) |
|         | TOTAL 15 sem. hrs.                        |

**Second Semester**

|         |   |
|---------|---|
| ART101  | Two-Dimensional Design (3) <b>or</b>        |
| ART102  | Three-Dimensional Design (3)                |
| ART107  | Drawing II (3)                              |
| ENGL102 | Research Writing (3)                        |
| MATH203 | Mathematics for Teachers of Children II (3) |
| ARHI207 | Overview of Non-Western Art (3)             |
|         | TOTAL 15 sem. hrs.                          |

**Third Semester**

|         |  |
|---------|--|
| ART103  | Four-Dimensional Design (1.5)            |
| ART105  | Color (1.5)                              |
| PSYC101 | Introduction to Psychology (3)           |
| SEDU271 | Multiculturalism in American Schools (3) |
| SPED210 | Introduction to Exceptionality (3)       |
| ENG300+ | Literature Course (3)                    |
|         | Required Studio Breadth Course (3)       |
|         | TOTAL 18 sem. hrs.                       |

**Fourth Semester**

|          |  |
|----------|--|
| ARHI323  | Art of the 20th Century (3)            |
| ARED 316 | Professional Standards in the Arts (3) |
| PSYC317  | Development Psychology (3)             |
| ENG300+  | Literature Course (3)                  |
|          | Required Studio Breadth Courses (3)    |
|          | TOTAL 15 sem. hrs.                     |

**Fifth Semester**

|           |  |
|-----------|--|
| ARED283   | Digital Culture in the Arts (3)                            |
| ARED314   | Theory and Practice in the Arts (3)                        |
| SPED370   | Adaptations and Accommodations in Inclusive Classrooms (3) |
|           | Required Studio Breadth Course (3)                         |
| ARHI300 + | Art History Course (3)                                     |
|           | TOTAL 15 sem. hrs.   |

**Sixth Semester**

|         |  |
|---------|--|
| ARED315 | Curriculum and Program Development in the Arts (3) |
| ARED425 | The Arts and Inclusion (3)                         |
|         | Required Studio Depth Course (3)                   |
|         | Core (6)   |
|         | TOTAL 15 sem. hrs.                                 |

**Seventh Semester**

|         |                                    |
|---------|------------------------------------|
| ARED475 | Arts Field Experience (3)          |
|         | Required Studio Breadth Course (3) |
|         | Required Studio Depth Course (3)   |
|         | Core (6)                           |
|         | TOTAL 15 sem. hrs.                 |

**Eighth Semester**

|         |                       |
|---------|-----------------------|
| ARED495 | Student Teaching (12) |
|         | TOTAL 12 sem. hrs.    |

**Community Arts**

|     |                                     |  |
|-----|-------------------------------------|--|
| I.  | General Education Requirements      | 42 sem. hrs.                                       |
| II. | Professional Education Requirements | 27 sem. hrs.                                       |
|     | ARED283                             | Digital Culture in the Arts**(3)                   |
|     | ARED314                             | Theory and Practice in the Arts (3)                |
|     | ARED315                             | Curriculum and Program Development in the Arts (3) |
|     | ARED316                             | Professional Standards in the Arts (3)             |
|     | ARED425                             | The Arts and Inclusion (3)                         |
|     | ARED475                             | Arts Field Experience (3)                          |
|     | ARED496                             | Internship in Art Education (6)                    |
|     | PSYC101                             | Introduction to Psychology**(3)                    |
|     | SOC100                              | Principles of Sociology**(3)                       |
|     | SOC380                              | Social Action and Community Organizing**(3)        |
|     | ANTH220                             | Museum Ethics**(3)                                 |
|     | COMM298                             | Business and Professional Communication (3)        |
|     | or JOUR298                          | Literature or performing Arts Elective (3)         |

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

|      |   |                                 |
|------|---|---------------------------------|
| 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  | 12 semester hours               |
|      | <b>Four 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 20th Century |               |
| ARHI300+                     |                         |               |
|                              | <b>TOTAL</b>            | 120 sem. hrs. |

**BACHELOR OF SCIENCE – ART EDUCATION****Community Arts Track****(Suggested Eight-Semester Sequence)****First Semester**

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

**Second Semester**

|         |                                      |              |
|---------|--------------------------------------|--------------|
| ART101  | Two-Dimensional Design (3) <b>or</b> |              |
| ART102  | Three-Dimensional Design (3)         |              |
| ART107  | Drawing II (3)                       |              |
| ENGL102 | Research Writing (3)                 |              |
| SOC100  | Principles of Sociology (3)          |              |
| ARHI207 | Overview of Non-Western Art (3)      |              |
|         | <b>TOTAL</b>                         | 15 sem. hrs. |

**Third Semester**

|         |                                    |              |
|---------|------------------------------------|--------------|
| PSYC101 | Introduction to Psychology (3)     |              |
| ART103  | Four-Dimensional Design (1.5)      |              |
| ART105  | Color (1.5)                        |              |
| ARED283 | Digital Culture in the Arts (3)    |              |
| ANTH220 | Museum Ethics (3)                  |              |
|         | Required Studio Breadth Course (3) |              |
|         | <b>TOTAL</b>                       | 15 sem. hrs. |

**Fourth Semester**

|            |  |              |
|------------|--|--------------|
| ARED316    | Professional Standards in the Arts (3) |              |
| ARHI323    | Art of the 20th Century (3)            |              |
| COMM298    | Business and Professional              |              |
| or JOUR298 | Communication (3)                      |              |
|            | Required Studio Breadth Course (6)     |              |
|            | <b>TOTAL</b>                           | 15 sem. hrs. |

**Fifth Semester**

|         |  |              |
|---------|--|--------------|
| ARED314 | Theory and Practice in the Arts (3)    |              |
| SOC380  | Social Action and Community Organizing |              |
| (3)     |  |              |
|         | Core (3)                               |              |
|         | Required Studio Depth Course (3)       |              |
|         | ARHI300 + (3)                          |              |
|         | <b>TOTAL</b>                           | 15 sem. hrs. |

**Sixth Semester**

|         |                                       |              |
|---------|---------------------------------------|--------------|
| ARED315 | Curriculum and Program Development in |              |
|         | the Arts (3)                          |              |
| ARED425 | The Arts and Inclusion(3)             |              |
|         | Required Studio Breadth Course (3)    |              |
|         | Required Studio Depth Course (3)      |              |
|         | Distribution (3)                      |              |
|         | <b>TOTAL</b>                          | 15 sem. hrs. |

**Seventh Semester**

|         |  |              |
|---------|--|--------------|
| ARED475 | Arts Field Experience (3)              |              |
|         | Core (3)                               |              |
|         | Required Studio Breadth Course (3)     |              |
|         | Required Studio Depth Course (3)       |              |
|         | Required Literature or Arts Course (3) |              |
|         | <b>TOTAL</b>                           | 15 sem. hrs. |

**Eighth Semester**

|         |                                  |              |
|---------|----------------------------------|--------------|
|         | Core (3)                         |              |
|         | Distribution (3)                 |              |
|         | Required Studio Depth Course (3) |              |
| ARED496 | Internship in Art Education (6)  |              |
|         | <b>TOTAL</b>                     | 12 sem. hrs. |

## Communication, Journalism and Media Department

**FACULTY:** Anthony E. Esposito, Melissa K. Gibson, Anthony C. Peyronel, Ronald Raymond, Andrew R. Smith, Timothy N. Thompson, Terrence L. Warburton, R. James Wertz, and Howard Alan Wilson

The Department of Communication, Journalism and Media offers degree programs in Strategic Communication, Journalism, and Digital Media Production that emphasize both theory and application.

The BS in Strategic Communication provides training for careers in integrated marketing communication, non-profit development, public relations, public advocacy, event planning, advertising, sales and related fields with a well-rounded communication education that includes expertise in intercultural relations, conflict management, and ethics. Students complete a rigorous core of courses, accentuated by strategic communication application courses, then have opportunities to develop strategic planning skills through involvement with Applied Communicators of Edinboro (ACE), develop public relations skills with the Public Relations Student Society of America (PRSSA) chapter, and engage in community service activities through Lambda Pi Eta, the communication honor fraternity.

The BA in Journalism traditional reporting and editing skills while ensuring that students are prepared to produce content for a variety of platforms. Students also have the flexibility to focus on specific areas of interest such as print, broadcast or digital publishing, and to work directly with the department's campus media organizations.

The Digital Media Production concentration of the BA in Journalism will prepare students to work and produce in online, mass media, information and corporate industries. The major will focus on developing multiple media literacies, analytic abilities, and narrative skills in functional media contexts. In this program, students will develop media portfolios and capstone projects. The applied audio, video, graphical, and web skills that students learn will be informed by a foundation of writing, critical analysis, and creative development.

**INTERNSHIP**

The department's internship program includes a number of internship field study opportunities in special interest areas. Communication, Journalism and Media majors may be granted from three to fifteen hours of academic credit for participating in approved off-campus activities in the field.

All majors must earn a minimum letter grade of "C-" in all COMM, JOUR, and PR courses, and must maintain a QPA of 2.0 in the major.

Graduates of the department of Communication, Journalism and Media will have:

- Effective oral and written communication skills
- Competency in the use of computer mediated technology
- Effective interpersonal, intercultural, and organizational communication capabilities
- Competency in communication research methods and procedures
- Knowledge of discipline-specific theories and practices
- Competency in problem-solving, individual and group
- Leadership and strategic planning skills

**BACHELOR OF SCIENCE DEGREE****STRATEGIC COMMUNICATION**

|      |  |                      |
|------|--|----------------------|
| I.   | General Education Requirements   | 42 sem. hrs.         |
| II.  | Strategic Communication Core Courses   | 27 sem. hrs.         |
|      | COMM 107 Public Speaking (3)   |                      |
|      | COMM 125 Communication & Social Influence (3)  |                      |
|      | COMM 220 Intercultural Communication (3)   |                      |
|      | COMM 230 Organizational Communication (3)  |                      |
|      | PR 265 Introduction to Public Relations (3)  |                      |
|      | COMM 310 Introduction to Communication Research (3)  |                      |
|      | COMM 340 Conflict, Power & Communication (3)   |                      |
|      | JOUR 340 Media & Audience (3)  |                      |
|      | COMM 495 Senior Capstone (3)   |                      |
| III. | Strategic Communication Applied Courses  | 18 sem. hrs.         |
|      | COMM 298 Business & Professional Communication (3)   |                      |
|      | COMM 305 Event Planning (3)  |                      |
|      | PR 360 Writing for Public Relations (3)  |                      |
|      | PR 390 Writing for Advertising (3)   |                      |
|      | COMM 485 Crisis Management (3)   |                      |
|      | PR 540 Public Relations Management (3)   |                      |
| IV.  | Strategic Communication Electives  | 9 sem. hrs.          |
|      | Nine credit hours of Strategic Communication Electives can include any courses from Communication (COMM), Journalism (JOUR), or Public Relations (PR). |                      |
| V.   | Free Electives   | 24 sem. hrs.         |
|      | <b>TOTAL</b>   | <b>120 sem. hrs.</b> |

**BACHELOR OF SCIENCE — STRATEGIC COMMUNICATION  
(Suggested Eight-Semester Sequence)****First Semester**

|            |                                      |                     |
|------------|--------------------------------------|---------------------|
| COMM 107   | Public Speaking (3)                  |                     |
| COMM 125   | Communication & Social Influence (3) |                     |
| ENGL 101   | College Writing Skills (3)           |                     |
| MATH 104   | Finite Math (3)                      |                     |
| CORE 1 (3) |                                      |                     |
|            | <b>TOTAL</b>                         | <b>15 sem. hrs.</b> |

**Second Semester**

|            |  |                     |
|------------|--|---------------------|
| COMM 230   | Organizational Communication (3)               |                     |
| JOUR 226   | Digital Media Design – Computer Competency (3) |                     |
|            | Writing / Research (3)                         |                     |
| ENGL 102   |  |                     |
| CORE 2 (3) |  |                     |
| CORE 5 (3) |  |                     |
|            | <b>TOTAL</b>                                   | <b>15 sem. hrs.</b> |

**Third Semester**

|            |   |                     |
|------------|---|---------------------|
| COMM 298   | Business & Professional Communication (3) |                     |
| PR 265     | Introduction to Public Relations (3)      |                     |
| CORE 3 (3) |   |                     |
| CORE 4 (3) |   |                     |
| CORE 6 (3) |   |                     |
|            | <b>TOTAL</b>                              | <b>15 sem. hrs.</b> |

**Fourth Semester**

|            |                                     |                     |
|------------|-------------------------------------|---------------------|
| PR 360     | Writing for Public Relations (3)    |                     |
| JOUR 340   | Media & Audience (3)                |                     |
| COMM 340   | Conflict, Power & Communication (3) |                     |
| CORE 7 (3) |                                     |                     |
|            | Distribution 2 (3)                  |                     |
|            | <b>TOTAL</b>                        | <b>15 sem. hrs.</b> |

**Fifth Semester**

|          |                             |                     |
|----------|-----------------------------|---------------------|
| COMM 310 | Communication Research (3)  |                     |
| PR 390   | Writing for Advertising (3) |                     |
|          | Distribution 3 (3)          |                     |
|          | Free Elective (3)           |                     |
|          | Free Elective (3)           |                     |
|          | <b>TOTAL</b>                | <b>15 sem. hrs.</b> |

**Sixth Semester**

|          |                                      |                     |
|----------|--------------------------------------|---------------------|
| COMM 305 | Event Planning (3)                   |                     |
| COMM 485 | Crisis Management (3)                |                     |
|          | Distribution 1 (3)                   |                     |
|          | Strategic Communication Elective (3) |                     |
|          | Strategic Communication Elective (3) |                     |
|          | <b>TOTAL</b>                         | <b>15 sem. hrs.</b> |

**Seventh Semester**

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

**Eighth Semester**

|          |                                      |                     |
|----------|--------------------------------------|---------------------|
| COMM 495 | Senior Capstone (3)                  |                     |
| PR 540   | Public Relations Management (3)      |                     |
|          | Strategic Communication Elective (3) |                     |
|          | Free Elective (3)                    |                     |
|          | Free Elective (3)                    |                     |
|          | <b>TOTAL</b>                         | <b>15 sem. hrs.</b> |

**BACHELOR OF ARTS DEGREE****JOURNALISM**

|      |   |                      |
|------|---|----------------------|
| I.   | General Education Requirements  | 42 sem. hrs.         |
| A.   | Skills  | 12 sem. hrs.         |
|      | ENGL101 Coll. Writing Skills (3)  |                      |
|      | ENGL102 Research Writing (3)  |                      |
|      | MATH104 Finite Math (3)   |                      |
|      | JOUR226 Digital Media Design (3), required  |                      |
| 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 <i>Journalism Ethics (3)</i> , required   |                      |
|      | 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 (3)  |                      |
|      | Social & Behavioral Sciences (3)  |                      |
|      | Natural Sciences & Math (3)   |                      |
| II.  | Journalism Core   | 21 sem. hrs..        |
|      | JOUR214 Journalism & Society (3)  |                      |
|      | JOUR216 Beginning Reporting (3)   |                      |
|      | JOUR310 Broadcast Journalism (3)  |                      |
|      | JOUR316 Intermediate Reporting (3)  |                      |
|      | JOUR340 Media & Audience (3)  |                      |
|      | JOUR406 Communications Law (3)  |                      |
|      | JOUR504 Advanced Electronic Journalism (capstone) (3)   |                      |
| III. | Program Electives   | 21sem. hrs.          |
|      | <i>Students must take 21SH of JOUR, PR, or COMM courses as program electives</i>  |                      |
| IV.  | Free Electives  | 36 sem. hrs.         |
|      | <i>(Select one internship /field experience for appropriate program concentration –Journalism or Public Relations.)</i> |                      |
|      | JOUR496 Internship/Field Exp option (3-15)  |                      |
|      | <b>TOTAL</b>  | <b>120 sem. hrs.</b> |



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

|         |                            |                     |  |
|---------|----------------------------|---------------------|--|
| ENGL101 | College Writing Skills (3) |                     |  |
| MATH104 | Finite Math (3)            |                     |  |
| JOUR216 | Beginning Reporting (3)    |                     |  |
|         | Core (3)                   |                     |  |
|         | Core (3)                   |                     |  |
|         | <b>TOTAL</b>               | <b>15 sem. hrs.</b> |  |

**Second Semester**

|         |                          |                     |  |
|---------|--------------------------|---------------------|--|
| ENGL102 | Research Writing (3)     |                     |  |
| JOUR200 | Journalism Ethics (3)    |                     |  |
| JOUR214 | Journalism & Society (3) |                     |  |
| JOUR310 | Broadcast Journalism (3) |                     |  |
|         | Core (3)                 |                     |  |
|         | <b>TOTAL</b>             | <b>15 sem. hrs.</b> |  |

**Third Semester**

|         |                            |                     |  |
|---------|----------------------------|---------------------|--|
| JOUR316 | Intermediate Reporting (3) |                     |  |
| JOUR226 | Digital Media Design (3)   |                     |  |
|         | Journalism Elective (3)    |                     |  |
|         | Core (6)                   |                     |  |
|         | <b>TOTAL</b>               | <b>15 sem. hrs.</b> |  |

**Fourth Semester**

|         |                         |                     |  |
|---------|-------------------------|---------------------|--|
| JOUR340 | Media & Audience (3)    |                     |  |
|         | Core (3)                |                     |  |
|         | Journalism Elective (3) |                     |  |
|         | Free Electives (6)      |                     |  |
|         | <b>TOTAL</b>            | <b>15 sem. hrs.</b> |  |

**Fifth Semester**

|  |                          |                     |  |
|--|--------------------------|---------------------|--|
|  | Core (3)                 |                     |  |
|  | Distribution (3)         |                     |  |
|  | Journalism Electives (6) |                     |  |
|  | Free Electives (3)       |                     |  |
|  | <b>TOTAL</b>             | <b>15 sem. hrs.</b> |  |

**Sixth Semester**

|         |                          |                     |  |
|---------|--------------------------|---------------------|--|
| JOUR406 | Communications Law (3)   |                     |  |
|         | Distribution (3)         |                     |  |
|         | Journalism Electives (6) |                     |  |
|         | Free Elective (3)        |                     |  |
|         | <b>TOTAL</b>             | <b>15 sem. hrs.</b> |  |

**Seventh Semester**

|         |                                    |                     |  |
|---------|------------------------------------|---------------------|--|
| JOUR504 | Advanced Electronic Journalism (3) |                     |  |
|         | Journalism Elective (3)            |                     |  |
|         | Free Electives (9)                 |                     |  |
|         | <b>TOTAL</b>                       | <b>15 sem. hrs.</b> |  |

**Eighth Semester**

|         |                                   |                     |  |
|---------|-----------------------------------|---------------------|--|
| JOUR496 | Internship (3-15) or Elective (3) |                     |  |
|         | Free Electives (12)               |                     |  |
|         | <b>TOTAL</b>                      | <b>15 sem. hrs.</b> |  |

**BACHELOR OF ARTS DEGREE**  
**JOURNALISM: DIGITAL MEDIA PRODUCTION**

|    |                                |   |              |
|----|--------------------------------|---|--------------|
| I. | General Education Requirements |   | 42 sem. hrs. |
| A. | Skills                         |   | 12 sem. hrs. |
|    | ENGL101                        | Coll. Writing Skills (3)                  |              |
|    | ENGL102                        | Research Writing (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                        | <i>Journalism Ethics</i> (3), required    |              |
|    |                                | Natural Science (3)                       |              |

C. Distribution 9 sem. hrs.  
*Choose three (3) semester hours in each of the areas of distribution.*

Humanities & Fine Arts (3)  
 Social & Behavioral Sciences (3)  
 Natural Sciences & Math (3)

II. Digital Media Core 21 sem. hrs.

JOUR214 Journalism & Society (3)  
 JOUR216 Beginning Reporting (3)  
 JOUR310 Broadcast Journalism (3)  
 JOUR316 Intermediate Reporting (3)  
 JOUR340 Media & Audience (3)  
 JOUR406 Communications Law (3)  
 JOUR504 Advanced Electronic Journalism (3)

III. Journalism Core 18 sem. hrs.

JOUR209 Media Aesthetics (3)  
 JOUR250 Photojournalism (3)  
 JOUR 307 Audio Prod (3)  
 JOUR309 TV Production (3)  
 JOUR417 Adv Dig Med Design (3)  
 JOUR419 Advanced Video Prod (3)

IV. Program Electives 3sem. hrs.

*Students must take 3SH of JOUR, PR, or COMM courses as program electives*

V. Free Electives 36 sem. hrs.

JOUR496 Internship/Field Exp option in  
 JOUR (3-15)

**TOTAL 120 sem. hrs.**

**BACHELOR OF ARTS**  
**Journalism: DIGITAL MEDIA PRODUCTION**  
**(Suggested Eight-Semester Sequence)**
**First Semester**

|         |                            |                     |  |
|---------|----------------------------|---------------------|--|
| ENGL101 | College Writing Skills (3) |                     |  |
| MATH104 | Finite Math (3)            |                     |  |
| JOUR216 | Beginning Reporting (3)    |                     |  |
|         | Core (6)                   |                     |  |
|         | <b>TOTAL</b>               | <b>15 sem. hrs.</b> |  |

**Second Semester**

|         |                       |                     |  |
|---------|-----------------------|---------------------|--|
| ENGL102 | Research Writing (3)  |                     |  |
| JOUR200 | Journalism Ethics (3) |                     |  |
| JOUR209 | Media Aesthetics (3)  |                     |  |
| JOUR309 | TV Production (3)     |                     |  |
|         | Core (3)              |                     |  |
|         | <b>TOTAL</b>          | <b>15 sem. hrs.</b> |  |

**Third Semester**

|         |                          |                     |  |
|---------|--------------------------|---------------------|--|
| JOUR310 | Broadcast Journalism (3) |                     |  |
| JOUR214 | Journalism & Society (3) |                     |  |
| JOUR226 | Digital Media Design (3) |                     |  |
|         | Core (6)                 |                     |  |
|         | <b>TOTAL</b>             | <b>15 sem. hrs.</b> |  |

**Fourth Semester**

|         |                      |                     |  |
|---------|----------------------|---------------------|--|
| JOUR340 | Media & Audience (3) |                     |  |
| JOUR307 | Audio Production (3) |                     |  |
|         | Core (3)             |                     |  |
|         | Free Electives (6)   |                     |  |
|         | <b>TOTAL</b>         | <b>15 sem. hrs.</b> |  |

**Fifth Semester**

|         |                               |                     |  |
|---------|-------------------------------|---------------------|--|
| JOUR419 | Advanced Video Production (3) |                     |  |
| JOUR250 | Photojournalism (3)           |                     |  |
|         | Distribution (3)              |                     |  |
|         | Core (3)                      |                     |  |
|         | Free Electives (3)            |                     |  |
|         | <b>TOTAL</b>                  | <b>15 sem. hrs.</b> |  |

**Sixth Semester**

|         |                              |                     |
|---------|------------------------------|---------------------|
| JOUR417 | Adv Digital Media Design (3) |                     |
| JOUR406 | Communications Law (3)       |                     |
| JOUR316 | Intermediate Reporting (3)   |                     |
|         | Distribution (3)             |                     |
|         | Free Elective (3)            |                     |
|         | <b>TOTAL</b>                 | <b>15 sem. hrs.</b> |

**Seventh Semester**

|         |                                    |                     |
|---------|------------------------------------|---------------------|
| JOUR504 | Advanced Electronic Journalism (3) |                     |
|         | Journalism Elective (3)            |                     |
|         | Free Electives (9)                 |                     |
|         | <b>TOTAL</b>                       | <b>15 sem. hrs.</b> |

**Eighth Semester**

|         |                                   |                     |
|---------|-----------------------------------|---------------------|
| JOUR496 | Internship (3-15) or Elective (3) |                     |
|         | Free Electives (12)               |                     |
|         | <b>TOTAL</b>                      | <b>15 sem. hrs.</b> |

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## Criminal Justice, Anthropology, and Forensic Studies Department

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**FACULTY:** Lenore Barbian, Kevin E. Courtright, George E. Richards II, Delbert L. Rounds Jr.

The Department of Criminal Justice, Anthropology, and Forensic Studies offers the following degree programs: BA in Criminal Justice; BA in Anthropology, BA in Anthropology – Forensic Anthropology and AA in Criminal Justice.

Prospective students are encouraged to visit the Department of Criminal Justice, Anthropology, and Forensic Studies website for more information on all aspects of the programs, including extracurricular activities, internship opportunities, job and graduate school placement, and faculty profiles.

**THE ANTHROPOLOGY PROGRAM**

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? Anthropologists examine human biology and behavior in natural settings across time and space. They trace human physical and cultural evolution from primate beginnings to the present. Anthropologists explore the diversity of modern biological and cultural adaptations in order to understand the ways in which different peoples respond to their environment. They can use their knowledge of human diversity to aid the medical and legal community in the identification of human remains and the solving of crimes.

Anthropology prepares students for excellent jobs and opens doors to various career paths. Studying anthropology provides a global perspective and helps hone the critical thinking skills needed for success in the 21st century. With a Bachelor of Arts in Anthropology, students may pursue many different career directions including museums, the forensic sciences, business, research, teaching, advocacy, and public service.

**THE BACHELOR OF ARTS IN ANTHROPOLOGY**

Students in the BA Anthropology will choose between the Bachelor of Arts Anthropology or the Bachelor of Arts Anthropology – Forensic Anthropology. All Anthropology majors take courses in the disciplines of archaeology, cultural anthropology, and physical anthropology but take different upper level and advanced anthropology courses depending on their degree choice.

In the Bachelor of Arts Anthropology, students can tailor their individual programs to focus on a specific subdiscipline of anthropology or take a variety of courses across the subdisciplines. In the Bachelor of Arts Anthropology – Forensic Anthropology, students will take Introduction to Forensic Science as well as 15 anthropology electives credits from those courses with a focus in various aspects of forensic anthropology. Independent study and internship experiences are encouraged in both degree options.

Graduates of the Bachelor of Arts in Anthropology will be able to:

- Develop and demonstrate basic knowledge and understanding of key concepts associated with the sub-fields of archaeology, physical anthropology, and cultural 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 written and oral communication skills.

Graduates of the Bachelor of Arts Anthropology – Forensic Anthropology will be able to:

- Develop and demonstrate basic knowledge and understanding of key concepts associated with the sub-fields of archaeology, physical anthropology, and cultural anthropology.
- Develop in-depth knowledge and understanding of the field of forensic anthropology.
- Understand the role of forensic anthropology in the medical and legal community.
- 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 forensic 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 written and oral communication skills.

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## Bachelor of Arts Degree

**Anthropology**

|      |                                |   |
|------|--------------------------------|---|
| 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) |              |                      |
| ANTH369                          | Forensic Archaeology (3)   |              |                      |
| ANTH373                          | Archaeological Field Studies (3-12)  |              |                      |
| ANTH374                          | Indians of North America (3)   |              |                      |
| ANTH375                          | Cultural Anthropology (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)                                       |              |                      |
| ANTH410                          | Anthropological Theory and Method (3)                                      |              |                      |
| ANTH465                          | Broken Bones: Forensic Analysis of Trauma (3)                              |              |                      |
| ANTH403                          | The Human Language and Its Speakers (3)                                    |              |                      |
| ANTH408                          | Ethnographic Methods (3)   |              |                      |
| ANTH490                          | Independent Study (2-5)  |              |                      |
| 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.  |                      |
| STAT260                          | Elements of Statistics (3)   |              |                      |
| VI. Free Electives               |  | 36 sem. hrs. |                      |
|                                  | <b>TOTAL</b>   |              | <b>120 sem. hrs.</b> |

## Bachelor of Arts Degree

### Anthropology – Forensic Anthropology

|  |  |              |                      |
|--|--|--------------|----------------------|
| I. General Education Requirements      |  | 42 sem. hrs. |                      |
| II. Required Anthropology Courses      |  | 18 sem. hrs. |                      |
| ANTH180                                | Introduction to Anthropology (3)   |              |                      |
| ANTH371                                | Introduction to Archaeology (3)  |              |                      |
| ANTH375                                | Cultural Anthropology (3)  |              |                      |
| ANTH385                                | Introduction to Physical Anthropology (3)                                  |              |                      |
| ANTH410                                | Anthropology Theory and Method (3)   |              |                      |
| ANTH400                                | Capstone Seminar in Anthropology (3)                                       |              |                      |
| III. Forensic Anthropology Foundations |  | 7 sem. hrs.  |                      |
| ANTH310                                | Introduction to Forensic Anthropology (3)                                  |              |                      |
| ANTH510                                | Advanced Forensic Anthropology (4)   |              |                      |
| IV. Anthropology Electives             |  | 9 sem. hrs.  |                      |
| Electives currently available:         |  |              |                      |
| ANTH365                                | Living with the Dead: Mortuary Practices in Cross-Cultural Perspective (3) |              |                      |
| ANTH369                                | Forensic Archaeology (3)   |              |                      |
| ANTH373                                | Archaeological Field Studies (3-12)  |              |                      |
| ANTH390                                | Human Evolution (3)  |              |                      |
| ANTH397                                | Special Topics in Anthropology (1-3)                                       |              |                      |
| ANTH465                                | Broken Bones: Forensic Analysis of Trauma (3)                              |              |                      |
| ANTH490                                | Independent Study (2-5)  |              |                      |
| ANTH495                                | Internship in Anthropology (3-12)  |              |                      |
| V. Required Supporting Course          |  | 4 sem. hrs.  |                      |
| PSYC225                                | Psychology Statistics (3)  |              |                      |
| PSYC226                                | Psychology Statistics Discussion (1)                                       |              |                      |
| VI. Free Electives                     |  | 40 sem. hrs. |                      |
|  | <b>TOTAL</b>   |              | <b>120 sem. hrs.</b> |

### 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 | Research Writing (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) |
| STAT260 | 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.            |

\*NOTE: a minimum of 42 credits must be advanced level coursework

## BACHELOR OF ARTS – FORENSIC ANTHROPOLOGY (Suggested Eight-Semester Sequence)

### First Semester

|         |   |
|---------|---|
| ENGL101 | College Writing Skills (3)  |
| CSCI104 | Essential Computing I or Discipline Specific Computer Competency Course (3) |
| ANTH180 | Intro to Anthropology (3)   |
| Core 5  | GERM101 or SPAN101 (3)  |
|         | Core (3)  |
|         | TOTAL 15 sem. hrs.  |

### Second Semester

|                |                                |
|----------------|--------------------------------|
| MATH104        | Finite Math (3) or higher      |
| ENGL102        | Research Writing (3)           |
| ANTH371        | Introduction to Archeology (3) |
| Distribution 1 | GERM102 or SPAN102 (3)         |
| Core 7         | FORS100                        |
|                | TOTAL 15 sem. hrs.             |

### Third Semester

|         |   |
|---------|---|
| ANTH375 | Cultural Anthropology (3)                 |
| ANTH310 | Introduction to Forensic Anthropology (3) |
| Core 6  | ANTH220 Museum Ethics (3)                 |
|         | Core (3)                                  |
|         | Free Elective (3)                         |
|         | TOTAL: 15 sem. hrs.                       |

### Fourth Semester

|                |                                       |
|----------------|---------------------------------------|
| ANTH385<br>(3) | Introduction to Physical Anthropology |
| PSYC225        | Psychology Statistics (3)             |
| PSYC226        | Psychology Statistics Discussion (1)  |
|                | Core (3)                              |
|                | Distribution (3)                      |
|                | Free Elective (3)                     |
|                | TOTAL 16 sem. hrs.                    |

### Fifth Semester

|      |   |
|------|---|
| ANTH | Forensic Anthropology elective numbered 300 or higher (3) |
|      | Core (3)  |
|      | Distribution (3)  |
|      | Free Elective (3)   |
|      | Free Elective (3)   |
|      | TOTAL 15 sem. hrs.  |

### Sixth Semester

|         |   |
|---------|---|
| ANTH510 | Advanced Theory and Method in Forensic Anthropology (3) |
|         | Free Elective (3)                                       |
|         | Free Elective (3)                                       |
|         | Free Elective (3)                                       |
|         | Free Elective (3)                                       |
|         | TOTAL 15 sem. hrs.                                      |

### Seventh Semester

|         |   |
|---------|---|
| ANTH400 | Capstone Seminar in Anthropology (3)                      |
| ANTH    | Forensic Anthropology elective numbered 300 or higher (3) |
|         | Free Elective (3)   |
|         | Free Elective (3)   |
|         | Free Elective (3)   |
|         | TOTAL 15 sem. hrs.  |

### Eighth Semester

|         |   |
|---------|---|
| ANTH410 | Anthropological Theory and Method (3)                     |
| ANTH    | Forensic Anthropology elective numbered 300 or higher (3) |
|         | Free Elective (3)   |
|         | Free Elective (3)   |
|         | Free Elective (3)   |
|         | TOTAL 15 sem. hrs.  |

## THE CRIMINAL JUSTICE PROGRAM

The criminal justice system is an integral part of society and offers challenging and rewarding career opportunities. Education for the criminal justice field requires analysis of the criminal justice system from multi-disciplinary perspectives—criminological, ethical, historical, legal, political, sociological, etc. Criminal Justice is truly one of the great multi-disciplinary professions of the future. Students greatly benefit from practical training in techniques for preventing crime, investigating crime, and dealing with persons in the correctional 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 possess wide-ranging academic expertise as well as real-world experiences
- Students choose from a range of courses that prepare them for careers in not only criminal justice professions but also related professions, such as counselor, attorney, private investigator, probation or parole agent, homeland security, and loss prevention
- 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

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 thorough 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 many areas of public service or transition into and successfully complete graduate or professional school programs

## 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)<br>(Counts as Core 3 course) |
|     | SOC100                            | Principles of Sociology (3) (Counts as Core 5 course)              |
|     | STAT 260                          | Elements of Statistics (3) (Counts as Distribution 3 course)       |
|     | CRIM100                           | Introduction to Criminal Justice (3)                               |
|     | CRIM210                           | Corrections in America (3)   |
|     | CRIM230                           | Police and Society (3)   |
|     | CRIM265                           | Courts and Criminal Law (3)  |
|     | CRIM272                           | Criminology (3)  |
|     | CRIM295                           | Criminal Justice Ethics (3)  |
|     | CRIM475                           | Research Methods in Criminal Justice (3)                           |
|     | CRIM500                           | Seminar in Criminal Justice (3)                                    |

|   |               |
|---|---------------|
| III. Criminal Justice Electives   | 18 sem. 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 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. CRIM472 Advanced Criminology  |               |
| IV. Free Electives  | 36 sem. hrs.  |
| TOTAL   | 120 sem. hrs. |

\*NOTE: a minimum of 42 credits must be advanced level coursework.

### 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 | Research Writing (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 | Corrections in America (3)    |              |
| CRIM230 | Police and Society (3)        |              |
| CRIM265 | Courts and Criminal Law (3)   |              |
| CRIM272 | Criminology                   |              |
| STAT260 | 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)               |               |
|         | TOTAL                           | 30 sem. hrs.  |
|         | TOTAL                           | 120 sem. hrs. |

\*NOTE: a minimum of 42 credits must be advanced level coursework.

## Associate of Arts Degree

### Criminal Justice

The Associate of Arts degree in Criminal Justice (AACJ) is a 60-credit program that qualifies students to work in many criminal justice professions. Students receive a comprehensive overview of the criminal justice system with exposure to more specific interest areas. Criminal justice courses at Edinboro University increase a student's knowledge, analytical and communication skills, and employability. The AACJ degree is especially appropriate for students seeking minimum qualifications to enter police and law enforcement professions.

What is the difference between the Associate's degree program and the Bachelor's degree program in Criminal Justice? Compared to the Bachelor of Arts degree 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. Persons with an interest in criminal justice can contact the Department of Criminal Justice, Anthropology, and Forensic Studies to talk to the department chairperson about 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 counts toward the Bachelor's degree. Furthermore, the Department of Criminal Justice, Anthropology, and Forensic Studies at Edinboro University offers many of its Criminal Justice course online, which makes it easier for Associate's degree students to complete the Bachelor's degree requirements while actively pursuing a career in the field.

|                                       |  |                     |
|---------------------------------------|--|---------------------|
| I. General Education Requirements     |  | 30 sem. hrs.        |
| ENGL101                               | College Writing Skills   | 3 sem. hrs.         |
| ENGL102                               | Research Writing   | 3 sem. hrs.         |
| MATH104                               | Finite Mathematics or higher   | 3 sem. hrs.         |
| CSCI104                               | Essential Computing I<br>or Discipline-specific Computer<br>Competency Course  | 3 sem. hrs.         |
| POLI101                               | Intro to American Politics (Core 3<br>requirement)   | 3 sem. hrs.         |
| SOC100                                | Principles of Sociology (Core 5<br>requirement)  | 3 sem. hrs.         |
|                                       | One course from four of the five remaining Core categories<br>(Artistic Expression, World Civilizations, Human Behavior,<br>Ethics, Natural Science) | 12 sem. hrs.        |
| II. Criminal Justice Required Courses |  | 18 sem. hrs.        |
| CRIM100                               | Introduction to Criminal Justice (3)   |                     |
| CRIM210                               | Corrections in America (3)   |                     |
| CRIM230                               | Police and Society (3)   |                     |
| CRIM265                               | Courts and Criminal Law (3)  |                     |
| CRIM295                               | Criminal Justice Ethics (3)  |                     |
| CRIM272                               | Criminology (3)  |                     |
| III. Criminal Justice Electives       |  | 6 sem. hrs.         |
|                                       | Criminal Justice electives include any CRIM-listed course  |                     |
| IV. Free Electives                    |  | 6 sem. hrs.         |
|                                       | <b>TOTAL</b>   | <b>60 sem. hrs.</b> |

### 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 |                     |
|          | <b>TOTAL</b>                     | <b>15 sem. hrs.</b> |

#### Second Semester

|         |   |                     |
|---------|---|---------------------|
| CRIM210 | Corrections in America (3)  |                     |
| CRIM230 | Police and Society (3)  |                     |
| ENGL102 | Research Writing (3)  |                     |
| CSCI104 | Essential Computing (3) or Discipline-<br>specific Computer Competency Course<br>Core (3) |                     |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

#### Third Semester

|          |   |                     |
|----------|---|---------------------|
| CRIM272  | Criminology (3)                                     |                     |
| CRIM 265 | Court and Criminal Law (3)                          |                     |
| CRIM295  | Criminal Justice Ethics (3)<br>Core (3)<br>Core (3) |                     |
|          | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

#### Fourth Semester

|  |                               |                     |
|--|-------------------------------|---------------------|
|  | Criminal Justice Elective (3) |                     |
|  | Criminal Justice Elective (3) |                     |
|  | Core (3)                      |                     |
|  | Free Elective (3)             |                     |
|  | Free Elective (3)             |                     |
|  | <b>TOTAL</b>                  | <b>15 sem. hrs.</b> |
|  | <b>TOTAL</b>                  | <b>60 sem. hrs.</b> |

## English and Philosophy Department

**FACULTY:** Jeffery Bartone, Caroline Hohmann Campbell, John Cussen, Amy Doty, Deborah A. DuBartell, Robert Bernard Hass, Robert W. Hellstrom, Robert W. Holderer, William R. Hunter, Elisabeth W. Joyce, Mary Paniccia Carden, , Paul R. Rovang, , Jeremy Sideris, Roger L. Solberg, Stephen Sullivan.

The English program pursues the following goals: (1) to teach students that writing is integral to creating and conveying new ideas; (2) to expand students' ability to write effectively; (3) to enhance students' ability to analyze and critique texts; (4) to acquaint students with an array of significant creative and critical works. English majors develop foundational skills including: clear and effective writing, analytical reading, focused communication, critical thinking, creative expression, logical argumentation, problem-solving, online research, and information literacy. Students with English degrees go on to graduate and law schools and become published authors. They pursue careers in a variety of fields, such as publishing, communications, online media, education, government, and business.

The Philosophy program encourages intellectual, ethical, and aesthetic growth, with a special emphasis on critical thinking. Philosophy courses consider issues in a wide variety of areas of human inquiry and concern. The Philosophy program provides excellent preparation for graduate study in many areas and for professional programs in law and theology.

Majors are encouraged to complete internships and to engage in extracurricular activities; opportunities include tutoring at the University Writing Center and writing for and editing the campus newspaper and the literary magazine *Chimera*. The Department provides career readiness programming and opportunities for professional development.

The Department of English and Philosophy offers Bachelor of Arts degrees in English with concentrations in Literature and Writing and an Associate of Arts degree in Liberal Studies.. For information concerning Bachelor of Science in Education degrees in English, please refer to the Middle and Secondary Education Department. The Department of English and Philosophy offers minors in English, Creative Writing, Professional Writing, Philosophy, Critical Thinking, Religious Studies, and Women's Studies. Descriptions of minors appear at the end of the Academic Affairs – Curricula and Organization section of the catalog.

## 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 five ways Option A is satisfied by the completion of any of over 50 University-approved minors. Option 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, Theatre Arts, Foreign Languages, History, Music, Philosophy, or Communication Studies. Option C is satisfied by an individualized field of study. Option D is satisfied by completion of designated Professional Communication courses. Option E is satisfied by completion of designated Cultural Literacy courses.

|     |   |   |
|-----|---|---|
| I.  | General Education   | 30 sem. hrs.  |
| A.  | Skills  | 12 sem. hrs.  |
|     | ENGL101   | College Writing Skills  |
|     | ENGL102   | Research Writing  |
|     | MATH104   | Finite Math (3) or higher   |
|     | 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 categories (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity/Social Pluralism, Ethics, and Natural Science and Technology) |   |
| II. | Specialized Field   |   |
|     | <b>Option A:</b> Any University-approved minor  | 15-24 sem. hrs.   |
|     | <b>Option B:</b> Select six advanced Humanities courses spread over four of the following disciplines: Art/Art History, Communications, English, Theatre Arts, Foreign Languages, History, Music, or Philosophy.                  | 21 sem. hrs.  |
|     | <b>Option C:</b> 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.                                  | 21 sem. hrs.  |
|     | <b>Option D:</b> Professional Communication   |   |
|     | Required:   |   |
|     | BUAD 160  | Business in Society   |
|     | COMM 107  | Public Speaking   |
|     | COMM/PR 298   | Business & Prof Comm  |
|     | ENGL 370  | Business Writing  |
|     | <b>Select 3 Courses</b>   | <b>(no more than two same prefix):</b>                                  |
|     | COMM100   | Human Comm  |
|     | COMM325   | Interpersonal Comm  |
|     | JOUR 264  | Into to Mass Media  |
|     | PR 265  | Intro to Public Relations   |
|     | SHLD 125 or   |   |
|     | COMM125   | Psychology of Comm/Comm & Soc Influence                                 |
|     | SOC 120   | Soc of Globalization  |
|     | SOC 207   | Cont Social Probl   |
|     | SOC 380   | Social Action/Comm Org.   |

|                         |   |  |
|-------------------------|---|--|
| <b>Option E:</b>        | Cultural Literacy                           |  |
| <b>Select 7 Courses</b> | <b>(no more than two with same prefix):</b> |  |
| ANTH 205 or             |   |  |
| HIST 205                | Intro to Multicultural America              |  |
| HIST                    | Any History Course                          |  |
| COMM 100                | Human Communication                         |  |
| COMM 220                | Intercultural Communication                 |  |
| ENGL115                 | Introduction to Literature                  |  |
| ENGL 116                | American Prose Classics                     |  |
| ENGL117                 | Introduction to Fiction                     |  |
| GEOG130                 | Cultural Geography                          |  |

|      |           |  |                |
|------|-----------|--|----------------|
|      | POLI 101  | American Politics  |                |
|      | POLI 102  | Introduction to Comparative Politics                         |                |
|      | SOWK 115  | Human Diversity  |                |
|      | SOC 100   | Principles of Sociology                                      |                |
|      | SOC120    | Soc of Globalization   |                |
|      | SOC 207   | Cont Social Probl  |                |
| III. | Electives |  | 6-15 sem. hrs. |
|      |           | To be chosen in close consultation with the program advisor. |                |
|      |           | TOTAL  | 60 sem. hrs.   |

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**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)                          |              |
|         | Free Elective or Track Course (3) |              |
|         | TOTAL                             | 15 sem. hrs. |

**Second Semester**

|         |   |              |
|---------|---|--------------|
| ENGL102 | Research Writing (3)  |              |
| CSCI104 | Essential Computing I (3) or Discipline Specific Computer Competency Course (3) |              |
|         | Core (3)  |              |
|         | Core (3)  |              |
|         | Free Elective or Track Course (3)   |              |
|         | TOTAL   | 15 sem. hrs. |

**Third Semester**

|  |                                   |              |
|--|-----------------------------------|--------------|
|  | Core (3)                          |              |
|  | Core (3)                          |              |
|  | Free Elective or Track Course (3) |              |
|  | Free Elective or Track Course (3) |              |
|  | Free Elective or Track Course (3) |              |
|  | TOTAL                             | 15 sem. hrs. |

**Fourth Semester**

|  |   |              |
|--|---|--------------|
|  | Five Free Elective or Track Course (15) |              |
|  | TOTAL                                   | 15 sem. hrs. |

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**Bachelor of Arts Degree****English**

|     |   |  |
|-----|---|--|
| I.  | General Education Requirements              | 42 sem. hrs.                                       |
| II. | Major Requirements                          | 39-42 sem. hrs.                                    |
|     | A. Concentration in Literature              |  |
|     | 1. Core Courses (6 sem. hrs.)               |  |
|     | ENGL206                                     | Advanced Composition (3)                           |
|     | ENGL209                                     | Foundations for Literary Studies (3)               |
|     | 2. Literature Survey Courses (18 sem. hrs.) |  |
|     | ENGL201                                     | American Literature Survey I (3)                   |
|     | ENGL202                                     | American Literature Survey II (3)                  |
|     | ENGL241                                     | British Literature I (3)                           |
|     | ENGL242                                     | British Literature II (3)                          |
|     | ENGL260 OR                                  | Literature of the Ancient and Classical Worlds (3) |
|     | ENGL261                                     | Medieval and Renaissance Literature (3)            |
|     | ENGL315 OR                                  | Shakespeare I (3)                                  |
|     | ENGL319                                     | Shakespeare II (3)                                 |
|     | 3. Upper-Level Courses                      | 12 sem. hrs.                                       |
| A.  | Topics/Author Courses                       |  |
|     | ENGL332-340 or ENGL411-416 (3)              |  |

- B. Electives  
*Select any three*
- a. Writing
    - ENGL305 Technical Writing (3)
    - ENGL308 Literary Editing Practicum (3)
    - ENGL312 Essay Workshop (3)
    - ENGL370 Business Writing (3)
    - ENGL425 Composition Theory (3)
  - b. Literature
    - ENGL310 African American Literature (3)
    - ENGL330 Literature & Film (3)
    - ENGL332-340 Topics Courses (3)
    - ENGL365 Gender & Identity in Literature (3)
    - ENGL388 Mythology (3)
    - ENGL389 World Mythology (3)
    - ENGL411-416 Authors Courses (3)
    - ENGL421 History of the English Language (3)
    - ENGL446 Adolescent Literature (3)
  - c. Internship\*
    - ENGL450 Internship in Writing
- \*Internship credits beyond 3SH will count as Free Electives
4. Capstone Courses 6 sem. hrs.
    - ENGL489 Critical Theory (3)
    - ENGL499 Thesis Seminar in Literature
- B. Concentration in Writing
1. Literature Survey Courses 9 sem. hrs.  
*Choose three from*
    - ENGL201 American Literature Survey I (3)
    - ENGL202 American Literature Survey II (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. Topics/Authors Course 3 sem. hrs.  
 Choose from  
 ENGL 332-343 or  
 ENGL411-416 (3)
    - ENGL203 Writing Core 6 sem. hrs.
    - ENGL203 Creative Writing (3)
    - ENGL206 Advanced Composition (3)
    - Literary Editing Practicum (3)
    - ENGL308 Lit Editing Practicum (3)
  3. Intermediate Writing Courses 12 sem. hrs.  
*Choose four from*
    - ENGL322 Screenwriting (3)
    - ENGL370 Business Writing (3)
    - ENGL302 Fiction Workshop (3)
    - ENGL318 Poetry Workshop (3)
    - ENGL305 Technical Writing (3)
    - ENGL312 Essay Workshop (3)
    - ENGL313 Graphic Novel Workshop (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)
    - ENGL445 Advanced Graphic Novel Writing (3)
  5. Capstone Course 3 sem. hrs.
    - ENGL498 Thesis Seminar in Writing (3)
- Free Electives 36 sem. hrs.
- TOTAL 120 sem. hrs.

Students are encouraged to pursue relevant internships in their areas of interest.

In addition to the above requirements, 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/LITERATURE  
 (Suggested Eight-Semester Sequence)**

|                         |   |              |
|-------------------------|---|--------------|
| <b>First Semester</b>   |   |              |
| ENGL101                 | College Writing Skills (3)  |              |
| MATH104                 | Finite Mathematics (3) or higher  |              |
| CSCI104                 | Essential Computing I (3)   |              |
|                         | Core 1 (ENGL115, 117, 118, or 119) (3)  |              |
|                         | Core 2 (3)  |              |
|                         | TOTAL   | 15 sem. hrs. |
| <b>Second Semester</b>  |   |              |
| ENGL102                 | Research Writing (3)  |              |
| ENGL209                 | Foundations for Literary Study (3)  |              |
|                         | Choose one of the following:  |              |
|                         | ENGL 202, 242 (3)   |              |
|                         | Core 4 (3)  |              |
|                         | Core 5 (3)  |              |
|                         | TOTAL   | 15 sem. hrs. |
| <b>Third Semester</b>   |   |              |
| ENGL206                 | Advanced Composition (3)  |              |
|                         | Choose one of the following:  |              |
|                         | ENGL241, 201 (3)  |              |
|                         | Choose one of the following:  |              |
|                         | ENGL315, 319 (3)  |              |
|                         | Core 3(3)   |              |
|                         | Core 6 (3)  |              |
|                         | Core 7 (3)  |              |
|                         | TOTAL   | 15 sem. hrs. |
| <b>Fourth Semester</b>  |   |              |
|                         | Choose one of the following:  |              |
|                         | ENGL202,242,260,261, 332-340,411-416 (3)                                      |              |
|                         | Distribution 2 (3)  |              |
|                         | Distribution 3 (3)  |              |
|                         | English Elective 300+ Level (3)   |              |
|                         | Free Elective (3)   |              |
|                         | TOTAL   | 15 sem. hrs. |
| <b>Fifth Semester</b>   |   |              |
|                         | Choose one of the following: ENGL201, 202, 309, 310, 338/339/340, 415/416 (3) |              |
|                         | Literature Elective 300+ Level (3)  |              |
|                         | Distribution 1 (3)  |              |
|                         | Free Electives (6)  |              |
|                         | TOTAL   | 15 sem. hrs. |
| <b>Sixth Semester</b>   |   |              |
|                         | Choose one of the following:ENGL260, 261, 332-340, 411-416 (3)                |              |
|                         | English Elective 300+ Level (3)   |              |
|                         | Free Electives (9)  |              |
|                         | TOTAL   | 15 sem. hrs. |
| <b>Seventh Semester</b> |   |              |
| ENGL489                 | Critical Theory (3)   |              |
|                         | English Elective 300+ Level (3)   |              |
|                         | Free Electives (9)  |              |
|                         | TOTAL   | 15 sem. hrs. |



**Eighth Semester**

|         |                     |                     |  |
|---------|---------------------|---------------------|--|
| ENGL499 | Thesis Seminar (3)  |                     |  |
|         | Free Electives (12) |                     |  |
|         | <b>TOTAL</b>        | <b>15 sem. hrs.</b> |  |

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**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 |                     |  |
|         | Core 1 (ENGL 115, ENGL 117, ENGL 118, or ENGL 119) (3)                      |                     |  |
|         | Core 2 (3)  |                     |  |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |  |

**Second Semester**

|         |                      |                     |  |
|---------|----------------------|---------------------|--|
| ENGL102 | Research Writing (3) |                     |  |
|         | Core 3 (3)           |                     |  |
|         | Core 4 (3)           |                     |  |
|         | Core 5 (3)           |                     |  |
|         | Core 6 (3)           |                     |  |
|         | <b>TOTAL</b>         | <b>15 sem. hrs.</b> |  |

**Third Semester**

|         |  |                     |  |
|---------|--|---------------------|--|
| ENGL203 | Creative Writing (3)                                   |                     |  |
| ENGL206 | Advanced Composition (3)                               |                     |  |
|         | Choose one of the following:<br>ENGL201 or ENGL241 (3) |                     |  |
|         | Core 7 (3)   |                     |  |
|         | Distribution 1 (3)                                     |                     |  |
|         | <b>TOTAL</b>   | <b>15 sem. hrs.</b> |  |

**Fourth Semester**

|  |  |                     |  |
|--|--|---------------------|--|
|  | Choose one of the following:<br>ENGL202, ENGL242 260, or ENGL261 (3) |                     |  |
|  | Choose two Intermediate Writing Courses (6)                          |                     |  |
|  | Distribution 2 (3)   |                     |  |
|  | Free Elective (3)  |                     |  |
|  | <b>TOTAL</b>   | <b>15 sem. hrs.</b> |  |

**Fifth Semester**

|         |  |                     |  |
|---------|--|---------------------|--|
| ENGL308 | Literary Editing Practicum (3)   |                     |  |
|         | Choose one of the following: ENGL201, ENGL241, or 332-340, 411-416 (3) |                     |  |
|         | Choose one Intermediate Writing Courses (3)                            |                     |  |
|         | Distribution 3 (3)   |                     |  |
|         | Free Elective (3)  |                     |  |
|         | <b>TOTAL</b>   | <b>15 sem. hrs.</b> |  |

**Sixth Semester**

|  |   |                     |  |
|--|---|---------------------|--|
|  | Choose one Advanced Writing Course (3)  |                     |  |
|  | Choose one of the following: ENGL202, ENGL242, ENGL260, ENGL261, or 332-340, 411-416 or Free Elective (3) |                     |  |
|  | Choose one Intermediate Writing Course (3)  |                     |  |
|  | Free Elective (6)   |                     |  |
|  | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |  |

**Seventh Semester**

|  |  |                     |  |
|--|--|---------------------|--|
|  | Choose one Advanced Writing Course (3) |                     |  |
|  | Choose one Topics/Authors Course (3)   |                     |  |
|  | Free Electives (9)*                    |                     |  |
|  | <b>TOTAL</b>                           | <b>15 sem. hrs.</b> |  |

**Eighth Semester**

|         |                       |                     |  |
|---------|-----------------------|---------------------|--|
| ENGL498 | Thesis Seminar (3)    |                     |  |
|         | Free Electives (12)** |                     |  |
|         | <b>TOTAL</b>          | <b>15 sem. hrs.</b> |  |

\*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.

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## History, Politics, Languages and Cultures Department

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FACULTY: Ihor Bemko, Xin-Zhu Chen, Janusz Czejdo, James Fisher, Amanda Frantz-Mamani, Gerry Gendlin, Leo Gruber, Bridget Jeffery, Rhonda Matthews, Andre Smith

**MISSION STATEMENT**

The Department of History, Politics, Languages and Cultures offers undergraduate degree programs and courses that prepare students to excel in some of the most interesting and emergent career fields of the twenty-first century. By engaging the richness and complexity of the human experience, students become sophisticated analysts of the past and the present and learn how to translate knowledge into effective action to impact the future.

While the department does prepare a number of its students for advanced degree programs and academic careers, its primary mission is to graduate students who can directly and successfully pursue any career or life goal that requires strong analytical, research and communication skills, and to graduate engaged and responsible global citizens.

**THE HISTORY PROGRAM**

History students examine events that shaped the lives of earlier generations and created the world in which they live. Our courses teach students to think analytically, apply scientific methodology, articulate and communicate their thoughts, to use knowledge in ways that empower and improve the circumstances of their lives. Moreover, History courses promote an appreciation of cultural and human diversity and recognizes 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 to promote students' knowledge, curiosity, and empathetic understanding about peoples, cultures, and languages across time and space.

“The Classroom Without Walls” offers students many unique and innovative ways to learn about the past. The department offers a range of courses from traditional courses inside the classrooms of Hendricks Hall to semester class trips and club trips during the semester. These challenging and invigorating courses have become the trademark of the department and have given Edinboro University students the opportunity to expand their horizons beyond the four walls of our campus classrooms. In addition to travel courses, the department also has offered Study Abroad programs to Ireland, Poland, Mexico, and Cuba. In addition, students who graduate with a degree in our program may be eligible to apply to teach in China for a semester or a year. We are committed to teaching and exposing students to “living history and experiencing culture and language.” Students in history are provided with the analytical tools most important for career advancement, the abilities to read and write at a high level and 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 historical themes or subjects

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 speciality.

“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 B.A. in History programs are exposed to a broad array of courses in historical content and research methods. 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 may take a broad range of courses in the History Content and have some flexibility in courses under Professional Studies, Global, and the Americas. Edinboro’s history degree can also be complemented by one or more of several academic minors, and, in certain cases, a second bachelor’s degree program.

## 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)   |                      |
|      | HIST 103 Twentieth Century World (3)   |                      |
| **C. | Required Advanced History Courses  | 6 sem. hrs           |
|      | HIST411 Public History (3)   |                      |
|      | HIST410 Oral History (3)   |                      |
|      | HIST402 Digital History (3)  |                      |
|      | HIST495 Internship in History (3)  |                      |
| III. | The Americas   |                      |
|      | Students will take two courses from the Americas   |                      |
| IV.  | Global History   |                      |
|      | Students will take two courses from Global History   |                      |
| V.   | 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 |                      |
| VI.  | Capstone Experience  |                      |
|      | HIST 497 Capstone in History (3)   |                      |
| 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:

\*\*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 B.A. History.

\*\*Students must have a minimum of 42 credits in advanced coursework which usually is 300 and above courses

### BACHELOR OF ARTS – HISTORY (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)         |
|         | <b>TOTAL</b>                       |
|         | <b>15 sem. hrs.</b>                |

#### Second Semester

|         |   |
|---------|---|
| ENGL102 | Research Writing (3)                            |
| CSCI104 | Essential Computing I or CSCI123 or CSCI125 (3) |
| FORL102 | (second course in language) (3)                 |
| HIST102 | World Civilizations II (3)                      |
|         | Core (3)  |
|         | <b>TOTAL</b>                                    |
|         | <b>15 sem. hrs.</b>                             |

**Third Semester**

|         |   |       |              |
|---------|---|-------|--------------|
| HIST261 | History of U.S. I (3)<br>History content course at 301 Level<br>or above (3)<br>Core (3)<br>Core (3)<br>Free Elective (3) | TOTAL | 15 sem. hrs. |
|---------|---|-------|--------------|

**Fourth Semester**

|         |  |       |              |
|---------|--|-------|--------------|
| HIST262 | History of U.S. II (3)<br>Distribution (3)<br>Core (3)<br>Free Elective (3)<br>Free Elective (3) | TOTAL | 15 sem. hrs. |
|---------|--|-------|--------------|

**Fifth Semester**

|         |   |       |              |
|---------|---|-------|--------------|
| HIST300 | Intro to Applied Historical Research (3)<br>History content course (3)<br>Foreign Languages (3)<br>Core (3)<br>Distribution (3) | TOTAL | 15 sem. hrs. |
|---------|---|-------|--------------|

**Sixth Semester**

|         |  |       |              |
|---------|--|-------|--------------|
| HIST402 | Digital History (3)<br>History content course at 301 level or<br>above (3)<br>Distribution (3)<br>Free Elective (3)<br>Free Elective (3) | TOTAL | 15 sem. hrs. |
|---------|--|-------|--------------|

**Seventh Semester**

|  |   |       |              |
|--|---|-------|--------------|
|  | History content course at 301 level or<br>above (3)<br>History content course at 301 level or<br>above (3)<br>Free Elective (3)<br>Free Elective (3)<br>Free Elective (3) | TOTAL | 15 sem. hrs. |
|--|---|-------|--------------|

**Eighth Semester**

|                    |  |       |              |
|--------------------|--|-------|--------------|
| HIST497<br>HIST495 | History content course at 301 level or<br>above (3)<br>Capstone in History (3) or<br>Internship<br>Free Elective (3)<br>Free Elective (3)<br>Free Elective (3) | TOTAL | 15 sem. hrs. |
|--------------------|--|-------|--------------|

**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, Politics, Languages and Cultures Department.

**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.  |
|      | TOTAL   | 120 sem. hrs. |

**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**

|         |   |
|---------|---|
| ENGL102 | Computer Competency - CSCI 104<br>recommended (3) |
|         | Research Writing (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<br>Sciences (3) |
|  | Free Elective (3)                                     |

**Fourth Semester**

|  |  |
|--|--|
|  | Concentration (6)                              |
|  | Distribution 3: Science and<br>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) |

## 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 exciting and rewarding careers in government, political advocacy, non-governmental organizations, and law.

Political science majors take foundational courses that expose them to the major fields of contemporary politics; several upper-level electives in politics tailored to their specific interests; courses that develop skills in statistical analysis and in a foreign language; and a capstone course that provides a culminating experience and serves as a bridge to a post-graduation career. Students are given the option of earning academic credit toward their major by participating in a politics- or law-related internship. Edinboro's political science degree can also be complemented by one or more of several academic minors, and, in certain cases, a second bachelor's degree 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 ECON225 Principles of Macroeconomics (3) for their Distribution 2 requirement. Students must take STAT260 Elements of Statistics (3) for their Distribution 3 requirement.                                  |                      |
| II. Political Science Foundations  | 21sem. hrs.          |
| POLI100 Introduction to Politics (3)   |                      |
| POLI101 Introduction to American Politics (3)  |                      |
| POLI102 Introduction to Comparative Politics (3)   |                      |
| POLI103 Introduction to Global Politics (3)  |                      |
| POLI300 Methods of Political Analysis (3)  |                      |
| POLI303 Current Issues in Global Politics (3)  |                      |
| POLI507 Seminar in Political Science (3)   |                      |
| III. Political Science Electives   | 15 sem. hrs.         |
| Political science electives include any POLI course numbered 301 or higher, excluding POLI395 (which may be taken for "free electives" credit). A maximum of 3 credit hours of CRIM/POLI365 may count toward this requirement. |                      |
| IV. Foreign Language Requirement   | 6 sem. hrs.          |
| Six (6) credits of foreign language courses of the same prefix; course numbers must be 101, 102, 201, or 202   |                      |
| V. Free Electives  | 36 sem. hrs.         |
| <b>TOTAL</b>   | <b>120 sem. hrs.</b> |

### BACHELOR OF ARTS – POLITICAL SCIENCE (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) |                     |
| <b>TOTAL</b> |   | <b>15 sem. hrs.</b> |

#### Second Semester

|              |  |                     |
|--------------|--|---------------------|
| POLI101      | Introduction to American Politics (3)  |                     |
| POLI102      | Introduction to Comparative Politics (3)   |                     |
| ENGL102      | Research Writing (3)   |                     |
| CSCI104      | Essential Computing I (3) or Discipline-specific Computer Competency Course Core (3) |                     |
| <b>TOTAL</b> |  | <b>15 sem. hrs.</b> |

#### Third Semester

|              |  |                     |
|--------------|--|---------------------|
| POLI303      | Current Issues Global Politics (3)         |                     |
| STAT260      | Elements of Statistics (3)                 |                     |
|              | Foreign Language First Course (3) Core (3) |                     |
| <b>TOTAL</b> |  | <b>15 sem. hrs.</b> |

#### Fourth Semester

|              |   |                     |
|--------------|---|---------------------|
| POLI300      | Methods of Political Analysis (3)           |                     |
| POLI301+     | Political Science Elective (3)              |                     |
|              | Foreign Language Second Course (3) Core (3) |                     |
| <b>TOTAL</b> |   | <b>15 sem. hrs.</b> |

#### Fifth Semester

|              |                                |                     |
|--------------|--------------------------------|---------------------|
| POLI301+     | Political Science Elective (3) |                     |
| ECON225      | Macroeconomics (3) Core (3)    |                     |
|              | Distribution (3)               |                     |
|              | Free Elective (3)              |                     |
| <b>TOTAL</b> |                                | <b>15 sem. hrs.</b> |

#### Sixth Semester

|              |                                |                     |
|--------------|--------------------------------|---------------------|
| POLI301+     | Political Science Elective (3) |                     |
| POLI301+     | Political Science Elective (3) |                     |
|              | Free Elective (3)              |                     |
|              | Free Elective (3)              |                     |
|              | Free Elective (3)              |                     |
| <b>TOTAL</b> |                                | <b>15 sem. hrs.</b> |

#### Seventh Semester

|              |                                |                     |
|--------------|--------------------------------|---------------------|
| POLI301+     | Political Science Elective (3) |                     |
|              | Free Elective (3)              |                     |
|              | Free Elective (3)              |                     |
|              | Free Elective (3)              |                     |
|              | Free Elective (3)              |                     |
| <b>TOTAL</b> |                                | <b>15 sem. hrs.</b> |

#### Eighth Semester

|              |                                  |                      |
|--------------|----------------------------------|----------------------|
| POLI507      | Seminar in Political Science (3) |                      |
|              | Free Elective (3)                |                      |
|              | Free Elective (3)                |                      |
|              | Free Elective (3)                |                      |
|              | Free Elective (3)                |                      |
| <b>TOTAL</b> |                                  | <b>15 sem. hrs.</b>  |
| <b>TOTAL</b> |                                  | <b>120 sem. hrs.</b> |

## 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, while enrolling in any degree program, can participate in pre-law-related programming on and off campus while taking a select number of courses that are recognized for preparing students for law school. Students may also complete Edinboro's Pre-Law minor, which provides students with a broad, timely, and liberal-arts based introduction to law and legal systems.

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, literature, creative writing, 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 minor in Pre-Law 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:

|                |                                       |
|----------------|---------------------------------------|
| POL1343        | Law and Legal Systems                 |
| BUAD260        | Business Law I                        |
| POL1463 OR 465 | Civil Liberties OR Constitutional Law |

The following is an additional, partial list of law-focused courses that are offered on a regular basis. Pre-law students should take some but not too many law-focused courses; a student's undergraduate education is a preparation for law school, not law school itself:

|              |   |
|--------------|---|
| POL/CRIM360  | Practicum in Courtroom Advocacy             |
| POL1550      | International Law                           |
| COMM360      | Freedom of Speech                           |
| PSYC355      | Psychology and Law                          |
| BUAD360      | Business Law II                             |
| BUAD410      | Legal Environment of International Business |
| PFP440       | Estate Planning                             |
| CRIM265      | Courts and Criminal Law                     |
| CRIM462      | Pennsylvania Crimes Code                    |
| CRIM/POL1469 | Criminal Procedure and Evidence             |

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:

|   |                                 |
|---|---------------------------------|
| POL1101                                       | Intro to American Politics      |
| POL1103                                       | Introduction to Global Politics |
| POL1574                                       | American Political Thought      |
| SOC100  | Introduction to Sociology       |
| PSYC101                                       | Introduction to Psychology      |
| HIST261                                       | History of U.S. I               |
| HIST262                                       | History of U.S. II              |
| ECON220                                       | Microeconomics                  |
| ECON225                                       | Macroeconomics                  |
| ACCT215                                       | Accounting I                    |
| STAT260                                       | Elements of Statistics          |
| PHIL327                                       | Beginning Logic                 |
| A course in research methods (any discipline) |                                 |

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## Music and Theatre Department

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**FACULTY:** Daniel Burdick, Gary Grant

#### MISSION STATEMENT

The Music and Theatre Department's mission is to promote the art of music in the cultural, artistic, and intellectual life of the University and the surrounding communities.

The Music Department sponsors student chapters of professional music fraternities such as Sigma Alpha Iota (women), Phi Mu Alpha Sinfonia (men), and Kappa Kappa Psi (band). The Department offers ensembles and related coursework to allow students to continue to engage in their craft of music and develop critical skills associated with engaging in music as part of a student's curricular, co-curricular, and extra-curricular experience at Edinboro.

**The following information applies to currently enrolled majors only:**

#### Learning Outcomes for all Music Majors

1. Students will have the skills necessary to select, prepare and perform a variety of music appropriate for diverse ensembles and diverse audiences.
2. Students will have the analytical and listening skills necessary to understand and evaluate a variety of music from different times and cultures.
3. 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.
4. 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.
5. All graduates will have a commitment to self-improvement and lifelong learning.
6. Students will have elementary arranging, compositional and improvisational skills.
7. Students will be able to utilize current technology in a variety of musical activities.
8. 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.

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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## Sociology Department

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**FACULTY:** Ivan Chompalov, Patricia Neff Claster, Samuel Claster, Irene Fiala, and Lee Williams

The Department of Sociology at Edinboro University envisions a more equitable society built upon vibrant social relations, sustainable communities, and inclusive institutions guided by the principles of diversity, public engagement, and social and economic justice. The program prepares adult learners with critical sociological imaginations, strong technical skills, and the professional competencies necessary

for graduate education as well employment in a variety of local, regional and federal agencies, non-profit organizations and for-profit enterprises. Above all, the program prepares students to transcend the boundaries of their formal education and engage the challenges of 21st Century employment as well as public and private life.

Recent 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, University of Vermont, Ohio State, Penn State, the University of Pittsburgh, Duquesne University, and Case-Western Reserve University. Moreover, recent graduates currently enjoy employment in a diverse array of professional settings as Research Analysts, Program Managers, Field Directors, Benefits Managers, Independent Living Specialists, Marketing Assistants, Customer Service Representatives, Human Resource Coordinators, and Veterans Affairs Coordinators to name a few.

## 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 human service professionals. 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 providers, developmental disability specialists, paraeducators, and eldercare providers. 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 human service professional 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, corrections, delinquency, eldercare, disability, and other areas of the human and social services.

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  | Research Writing 3 sem. hrs.  |
|     | MATH104  | Finite Mathematics or higher 3 sem. hrs.  |
|     | CSCI104  | Essential Computing I<br>or Discipline-specific Computer<br>Competency Course 3 sem. hrs. |
|     | One approved course from six of the seven following<br>Core categories (Artistic Expression, World Civilizations,<br>American Civilizations, Human Behavior, Cultural Diversity<br>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                              | Class, 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. |

### 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.              |

#### Second Semester

|  |  |
|--|--|
|  | Nature and Needs of Service (3)          |
|  | Behaviors, Treatments and Strategies (3) |
|  | Core (3)                                 |
|  | Core (3)                                 |
|  | Distribution (3)                         |
|  | TOTAL 15 sem. hrs.                       |

#### Third Semester

|  |                                 |
|--|---------------------------------|
|  | Nature and Needs of Service (3) |
|  | Elective in Field (3)           |
|  | Core (3)                        |
|  | Core (3)                        |
|  | Core (3)                        |
|  | TOTAL 15 sem. hrs.              |

#### 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.                      |

## Bachelor of Arts Degree

### Sociology

The Bachelor of Arts degree in Sociology is a comprehensive program structured to give students a background in Sociological analysis and applied skills in social research methods with program content focused on social diversity and inequality. In addition to preparing the student for possible graduate education, the general goal of the program is to provide students with basic applied sociological skills necessary to assume a variety of professional positions and positively contribute to society at large. Graduates will obtain a variety of skills such as research design, survey construction, interviewing techniques, group facilitation, data collection and analysis, organizational problem-solving, and report writing. In addition, graduates will demonstrate a variety of interactional competencies necessary to work with individuals from a variety of diverse backgrounds.

## Sociology: Concentration in Human Service and Community Development

The Human Service and Community Development Concentration gives students training in applied and public sociological practice in order to engage stakeholders, serve clients, effect policy, develop modes of advocacy, and build communities in order to effect positive social change. Graduates of this program will gain skills in strategic social planning, policy analysis, community ethnography, community organization, needs assessment, and program evaluation. Graduates equipped with applied sociological training are employed as community organizers, demographers, data specialists, grant writers, human and social services workers, city planners, volunteer coordinators, human resource specialists, program managers, fundraisers, educators and advocacy specialists for victims of crime (e.g. child abuse, elder abuse, domestic violence, homelessness, or other manifestations of social oppression).

### BA Sociology Student Learning Outcomes:

Students who major in Sociology will be able to:

- Demonstrate an understanding of the complex interplay of history, social structure, and personal biography in order to critically evaluate social forces.
- Analyze and explain intersections of social diversity in regard to individual identity and structural inequality.
- Distinguish and integrate various social theoretical perspectives and apply them to contemporary societal problems.
- Identify strategies of social scientific research design, utilize data collection and analysis techniques, and illustrate a working knowledge of ethical research practice.
- Demonstrate an understanding of applied sociological practice, model professional behavior and implement strategies for social change.

|  |                      |
|--|----------------------|
| I. General Education Requirements  | 42 sem. hrs.         |
| Complete the general education requirements, including one chosen from the following:<br>PHIL200 or PHIL240. |                      |
| Complete any Foreign Language or Culture Course for Core 5 Cultural Diversity & Social Pluralism             |                      |
| II. Sociology Core   | 18 sem. hrs.         |
| A. Sociology Foundations   | 9 sem. hrs.          |
| SOC 100 Principles of Sociology (3)  |                      |
| SOC250 Introduction to Sociological Research Methods (3)   |                      |
| SOC260 Introduction to Sociological Theory (3)   |                      |
| B. Social Diversity  | 6 sem. hrs.          |
| <i>Two Courses chosen from the following:</i>  |                      |
| SOC325 The Sociology of Gender (3)   |                      |
| SOC347 Class, Work, and Society (3)  |                      |
| SOC364 Race and Ethnic Relations (3)   |                      |
| SOC385 Disability Studies (3)  |                      |
| C. Applied Research Practice   | 3 sem. hrs.          |
| <i>One Course chosen from the following:</i>   |                      |
| SOC440 Applied Qualitative Research Methods (3)  |                      |
| SOC450 Applied Quantitative Research Methods (3)   |                      |
| III. Program Electives   | 21 sem. hrs.         |
| IV. Capstone Experience  | 3 sem. hrs.          |
| SOC495 Inequality, Power, and Social Change (3)  |                      |
| V. Free Electives  | 36 sem. hrs.         |
| SOC497 Sociological Field Studies (3-15)   |                      |
| <b>TOTAL</b>   | <b>120 sem. hrs.</b> |

## BACHELOR OF ARTS – SOCIOLOGY (Suggested Eight-Semester Sequence)

### First Semester

|         |                             |
|---------|-----------------------------|
| ENGL101 | College Writing Skills (3)  |
| CSCI104 | Essential Computing I (3)   |
| SOC100  | Principles of Sociology (3) |
|         | Core (3)                    |
|         | Core (3)                    |
|         | <b>TOTAL 15 sem. hrs.</b>   |

### Second Semester

|         |   |
|---------|---|
| SOC     | Sociology Diversity Requirement (3)                 |
| ENGL102 | Research Writing (3)                                |
| MATH104 | Finite Mathematics (3)                              |
|         | Any Foreign Language or Culture Course - Core 5 (3) |
|         | Core (3)  |
|         | <b>TOTAL 15 sem. hrs.</b>                           |

### Third Semester

|                       |   |
|-----------------------|---|
| SOC250                | Introduction to Sociological Research Methods (3) |
|                       | Introduction to Philosophy                        |
| PHIL200 or<br>PHIL240 | Introduction to Contemporary Moral Issues (3)     |
|                       | Sociology Elective (3)                            |
|                       | Core (3)  |
|                       | Core (3)  |
|                       | <b>TOTAL 15 sem. hrs.</b>                         |

### Fourth Semester

|        |   |
|--------|---|
| SOC260 | Introduction to Sociological Theory (3) |
|        | Sociology Elective (3)                  |
|        | Distribution (3)                        |
|        | Distribution (3)                        |
|        | Free Elective (3)                       |
|        | <b>TOTAL 15 sem. hrs.</b>               |

### Fifth Semester

|           |  |
|-----------|--|
| SOC450 or | Advanced Quantitative Research Methods (3) |
| SOC440    | Applied Qualitative Research Methods (3)   |
| SOC       | Sociology Diversity Requirement (3)        |
|           | Distribution (3)                           |
|           | Sociology Elective (3)                     |
|           | Free Elective (3)                          |
|           | <b>TOTAL 15 sem. hrs.</b>                  |

### Sixth Semester

|  |                           |
|--|---------------------------|
|  | Sociology Elective (3)    |
|  | Sociology Elective (3)    |
|  | Sociology Elective (3)    |
|  | Free Elective (3)         |
|  | Free Elective (3)         |
|  | <b>TOTAL 15 sem. hrs.</b> |

### Seventh Semester

|        |  |
|--------|--|
| SOC495 | Inequality, Power, and Social Change (3) |
|        | Sociology Elective (3)                   |
|        | Free Elective (3)                        |
|        | Free Elective (3)                        |
|        | Free Elective (3)                        |
|        | <b>TOTAL 15 sem. hrs.</b>                |

### Eighth Semester

|           |   |
|-----------|---|
| SOC497 or | Sociology Field Studies (15)<br>(Recommended) |
|           | Free Electives (15)                           |
|           | <b>TOTAL 15 sem. hrs.</b>                     |

**BACHELOR OF ARTS – SOCIOLOGY-HUMAN SERVICE AND COMMUNITY DEVELOPMENT**

|      |  |                      |
|------|--|----------------------|
| I.   | General Education Requirements   | 42 sem. hrs.         |
|      | Complete the general education requirements, including one chosen from the following:<br>PHIL200 or PHIL240.<br>Complete any Foreign Language or Culture Course for Core 5 Cultural Diversity & Social Pluralism   |                      |
| II.  | Sociology Core   | 18 sem. hrs.         |
| A.   | Sociology Foundations  | 9 sem. hrs.          |
|      | SOC 100 Principles of Sociology (3)<br>SOC250 Introduction to Sociological Research Methods (3)<br>SOC260 Introduction to Sociological Theory (3)  |                      |
| B.   | Social Diversity   | 6 sem. hrs.          |
|      | <i>Two Courses chosen from the following:</i><br>SOC325 The Sociology of Gender (3)<br>SOC347 Class, Work, and Society (3)<br>SOC364 Race and Ethnic Relations (3)<br>SOC385 Disability Studies (3)  |                      |
| C.   | Applied Research Practice  | 3 sem. hrs.          |
|      | <i>One Course chosen from the following:</i><br>SOC440 Applied Qualitative Research Methods (3)<br>SOC450 Applied Quantitative Research Methods (3)  |                      |
| III. | Program Electives  | 21 sem. hrs.         |
| A.   | Human Service and Community Development Foundations  | 9 sem. hrs.          |
|      | SOC280 Human Service and Community Organizations (3)<br>SOC380 Social Action and Community Organizing (3)<br>SOC480 Program Evaluation (3)   |                      |
| B.   | Human Service and Community Development Electives  | 12 sem. hrs.         |
|      | <i>Four Courses chosen from the following:</i><br>SOC240 Animals in Society (3)<br>SOC300 Victimology (3)<br>SOC305 Urban and Rural Communities (3)<br>SOC320 Sociology of Deviance (3)<br>SOC326 Society and the Individual (3)<br>SOC333 Methods of Policy Evaluation for Social Sciences (3)<br>SOC340 Family and Intimate Relationships (3)<br>SOC341 Youth and Society (3)<br>SOC350 Healthcare and Society (3)<br>SOC370 Social Gerontology (3)<br>SOC390 Sociology of the Lifecycle (3) |                      |
| IV.  | Capstone Experience  | 3 sem. hrs.          |
|      | SOC495 Inequality, Power, and Social Change (3)  |                      |
| V.   | Free Electives   | 36 sem. hrs.         |
|      | SOC497 Sociological Field Studies (3-15)   |                      |
|      | <b>TOTAL</b>   | <b>120 sem. hrs.</b> |

**BACHELOR OF ARTS – SOCIOLOGY- HUMAN SERVICE AND COMMUNITY DEVELOPMENT (Suggested Eight-Semester Sequence)**

|                         |  |              |                     |
|-------------------------|--|--------------|---------------------|
| <b>First Semester</b>   | ENGL101 College Writing Skills (3)<br>CSCI104 Essential Computing I (3)<br>SOC100 Principles of Sociology (3)<br>Core (3)<br>Core (3)  | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Second Semester</b>  | ENGL102 Research Writing (3)<br>MATH104 Finite Math (3)<br>SOC <b>Sociology Diversity Requirement (3)</b><br>Any Foreign Language or Culture Course (3)<br>Core (3)  | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Third Semester</b>   | SOC250 Introduction to Sociological Research Methods (3)<br>SOC280 Introduction to Human Service & Community Organizations (3)<br>PHIL200 or PHIL240 Introduction to Philosophy<br>Introduction to Contemporary Moral Issues (3)<br>Core (3)<br>Core (3) | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Fourth Semester</b>  | SOC260 Introduction to Sociological Theory (3)<br>SOC380 Social Action & Community Organizing (3)<br>Distribution (3)<br>Distribution (3)<br>Free Elective (3)   | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Fifth Semester</b>   | SOC450 or Advanced Quantitative Research Methods (3)<br>SOC440 Applied Qualitative Research Methods (3)<br>SOC Sociology Diversity Requirement (3)<br>Human Service & Community Development Elective (3)<br>Distribution (3)<br>Free Elective (3)        | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Sixth Semester</b>   | SOC480 Program Evaluation (3)<br>Human Service & Community Development Elective (3)<br>Human Service & Community Development Elective (3)<br>Free Elective (3)<br>Free Elective (3)  | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Seventh Semester</b> | SOC495 Inequality, Power, and Social Change (3)<br>Human Service & Community Development Elective (3)<br>Free Elective (3)<br>Free Elective (3)<br>Free Elective (3)   | <b>TOTAL</b> | <b>15 sem. hrs.</b> |
| <b>Eighth Semester</b>  | SOC497 Sociological Field Studies (15)   | <b>TOTAL</b> | <b>15 sem. hrs.</b> |



# College of Science and Health Professions

## Biology and Health Sciences Department

**FACULTY:** Kiarash Aramesh, Matthew Foradori, David E. Fulford, Mark S. Kosco, Peter V. Lindeman, Kiran P. Misra, Craig W. Steele, Nina Thumser

The Biology and Health Sciences Department offers the following undergraduate programs; Bachelor of Science degrees in Biology, Bachelor of Science in Health Sciences, Environmental-Biology, 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 Sciences Department also offers General Education courses for non-biology majors, including BIOL100 Introduction to Biology, BIOL101 Human Biology, BIOL102 Environmental Biology, BIOL104 Introduction to Human Genetics, and BIOL304 Biology of Aging.

The Biology and Health Sciences Department offers ecology courses in conjunction with the University of Pittsburgh at the Pymatuning Laboratory of Ecology where undergraduate courses may be undertaken during the summer. For details see our Web site: "Links to Field Stations."

## Bachelor of Science Degree

### Health Sciences

The Bachelor of Science Health Sciences program is designed to prepare students interested in human health related professions. The basic degree will directly prepare students for entry level human health related careers such as health service managers, pharmaceutical sales representatives, and community health educators. The pre-professional concentrations will prepare students for master's and doctoral level professional programs such as physician assistant, physical therapy, occupational therapist, chiropractic medicine, dentistry, optometry, podiatry, medical doctor or osteopathic doctor.

Entrance into all of these professional programs are very competitive, students must be well rounded: show leadership ability, participate in activities outside of academics, do well on the entrance exam and have a good GPA. For example, the typical GPA for students entering Medical, Osteopathic, Podiatry and Dental schools is usually 3.5, for Optometry, Physician Assistant, Physical Therapy and Occupational Therapy schools it is usually 3.2 and for chiropractic schools it is usually 3.0. Therefore, we have developed the following requirements for declaring a concentration within the BS Health Sciences degree. Students can only declare a concentration if they have both of the following:

1. received a C- or better in MATH 107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155.
2. obtained a GPA of
  - a. 3.3 for the Pre-Medical (MD, DO, DPM-Podiatric) (0450) and Pre-Dental (0499) tracks,

- b. 3.0 for the Pre-Physician Assistant (0521), Pre-Physical Therapy (0522), Pre-Occupational Therapy (0523), and Pre-Optometry (0448) tracks.
  - c. 2.75 for the Pre-Chiropractic (0520) track.
- I. General Education Requirements 45 or 46 sem. hrs.  
MATH107 fulfills the math skills requirement, CSCI 104 or CHEM 241 fulfills computer skills, PSYC 101 fulfills Core 4, SOC 100 fulfills Core 5, BIOL200 fulfills Core 6, PHYS201 fulfills Core 7 and CHEM302 fulfills Distribution 3 for this degree program.
  - II. Required Biology Courses 27 sem. hrs.  
BIOL150 Principles of Biology (4)  
BIOL155 Principles of Biology 11 (4)  
BIOL219 Biomedical Terminology (3)  
BIOL300 Genetics (4) or  
BIOL305 Cell/Molecular Biology (4)  
BIOL312 Human Physiology and Anatomy I (4)  
BIOL313 Human Physiology and Anatomy II (4)  
BIOL318 Clinical Microbiology (4)
  - III. Capstone Experience 2-4 sem. hrs.  
Students must submit a portfolio and do ONE of the following: BIOL 395 Internship with presentation, BIOL 490 Independent study with presentation BIOL495 Senior Capstone Seminar.
  - IV. Required Supporting Courses 23 or 24 sem. hrs.  
STAT260 Elements of Statistics (3) or  
PSYC225 and 226 Psychological Statistics and Discussion (4)  
CHEM140 General Chemistry (4) or  
CHEM240 Principles of Chemistry I and  
CHEM241 Principles of Chemistry II in gen ed.  
CHEM301 General Organic Chem. (4)  
PSYC332 Health Psychology (3)  
PSYC345 Intro to Brain and Behavior (3)  
COMM325 Interpersonal Communication (3)  
NUTR310 Nutrition (3)
  - V. Free Electives 20-24 sem. hrs.
- TOTAL 120 sem. hrs.

Students enrolled in the Bachelor of Health Sciences program must attain a minimum overall grade point average of 2.00. Note: At least 42 semester hours must consist of advanced coursework.

## BACHELOR OF SCIENCE- HEALTH SCIENCES (Suggested Eight-Semester Sequence)

### First Semester

|         |                               |
|---------|-------------------------------|
| BIOL150 | Principles of Biology (4)     |
| CHEM140 | General Chemistry (4) or      |
| CHEM240 | Principles of Chemistry I (4) |
| ENGL101 | College Writing Skills (3)    |
| SOC100  | Principles of Sociology (3)   |
|         | TOTAL 14 sem. hrs.            |

### Second Semester

|         |  |
|---------|--|
| BIOL155 | Principles of Biology II (4)                           |
| ENGL102 | Specialized College Writing and<br>Research Skills (3) |
| MATH107 | Pre-calculus (4)                                       |
| CSCI104 | Essentials of Computing (3) or                         |
| CHEM241 | Principles of Chemistry TI (4)                         |
|         | TOTAL 14-15 sem. hrs.                                  |

### Summer

|         |                            |
|---------|----------------------------|
| BIOL219 | Biomedical Terminology (3) |
|         | TOTAL 3 sem. hrs.          |

**Third Semester**

|                 |   |
|-----------------|---|
| BIOL312         | Human Physiology and Anatomy I (4)          |
| CHEM301         | General Organic Chemistry (4)               |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
| PSYC101         | Intro to Psychology (3)                     |
|                 | TOTAL 14-15 sem. hrs.                       |

**Fourth Semester**

|          |                                     |
|----------|-------------------------------------|
| BIOL300  | Genetics or                         |
| BIOL 305 | Cell/Molecular Biology (4)          |
| BIOL313  | Human Physiology and Anatomy II (4) |
| CHEM302  | General Biochemistry (4)            |
| PSYC332  | Health Psychology (3)               |
|          | TOTAL 15 sem. hrs.                  |

**Fifth Semester**

|         |                              |
|---------|------------------------------|
| BIOL318 | Clinical Microbiology (4)    |
| PHYS201 | Physics I(3)                 |
| COMM107 | Public Speaking (3)          |
| PSYC345 | Intro Brain and Behavior (3) |
| Gen. Ed | Core I class (3)             |
|         | TOTAL 16 sem. hrs.           |

**Sixth Semester**

|          |                                 |
|----------|---------------------------------|
| BIOL200  | Bioethics (3)                   |
| COMM325  | Interpersonal Communication (3) |
| NUTR310  | Nutrition (3)                   |
| Gen. Ed. | Core 2 class (3)                |
| Gen. Ed. | Core 3 class (3)                |
|          | TOTAL 15 sem. hrs.              |

**Seventh Semester**

|         |                          |
|---------|--------------------------|
| Gen. Ed | Distribution 2 class (3) |
|         | Free Elective (12)       |
|         | TOTAL 15 sem. hrs.       |

**Eighth Semester**

|  |                           |
|--|---------------------------|
|  | Capstone Experience (2-4) |
|  | Free Elective (9-12)      |
|  | TOTAL 13-14 sem. hrs.     |

Note: At least 42 semester hours must consist of advanced coursework. Students enrolled in the Bachelor of Science Health Science program must attain a minimum overall grade point average of 2.00.

**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. 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  
HEALTH SCIENCES PRE-CHIROPRACTIC  
(Suggested Eight-Semester Sequence)**

**First Semester**

|         |                               |
|---------|-------------------------------|
| BIOL150 | Principles of Biology (4)     |
| CHEM140 | Principles of Chemistry I (4) |
| ENGL101 | College Writing Skills (3)    |
| CSCI104 | Essentials of Computing (3)   |
|         | TOTAL 14 sem. hrs.            |

**Second Semester**

|         |   |
|---------|---|
| BIOL155 | Principles of Biology II (4)                        |
| ENGL102 | Specialized College Writing and Research Skills (3) |
|         | Pre-calculus (4)                                    |
| MATH107 | Principles of Sociology (3)                         |
| SOC100  |   |
|         | TOTAL 14 sem. hrs.                                  |

**Summer**

|         |                            |
|---------|----------------------------|
| BIOL219 | Biomedical Terminology (3) |
|         | TOTAL 3 sem. hrs.          |

**Third Semester**

|                 |   |
|-----------------|---|
| BIOL312         | Human Physiology and Anatomy I (4)          |
| CHEM301         | General Organic Chemistry (4)               |
| PSYC101         | Intro to Psychology (3)                     |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
|                 | TOTAL 14-15 sem. hrs.                       |

**Fourth Semester**

|          |                                     |
|----------|-------------------------------------|
| BIOL300  | Genetics or                         |
| BIOL 305 | Cell/Molecular Biology (4)          |
| BIOL313  | Human Physiology and Anatomy II (4) |
| CHEM302  | General Biochemistry (4)            |
| PSYC332  | Health Psychology (3)               |
|          | TOTAL 15 sem. hrs.                  |

**Fifth Semester**

|         |                              |
|---------|------------------------------|
| BIOL318 | Clinical Microbiology (4)    |
| PSYC345 | Intro Brain and Behavior (3) |
| PHYS201 | Physics I (4)                |
| COMM107 | Public Speaking (3)          |
|         | TOTAL 14 sem. hrs.           |

**Sixth Semester**

|          |                                 |
|----------|---------------------------------|
| BIOL200  | Bioethics (3)                   |
| NUTR310  | Nutrition (3)                   |
| COMM325  | Interpersonal Communication (3) |
| Gen. Ed. | Core I class (3)                |
| Gen. Ed. | Core 2 class (3)                |
|          | TOTAL 15 sem. hrs.              |

**Seventh Semester**

|                    |                          |
|--------------------|--------------------------|
| Gen. Ed.           | Distribution 2 class (3) |
| Gen. Ed.           | Core 3 class (3)         |
| Free Electives (9) |                          |
|                    | TOTAL 15 sem. hrs.       |

**Eighth Semester**

|  |                           |
|--|---------------------------|
|  | Capstone Experience (2-4) |
|  | Free Elective (11-14)     |
|  | TOTAL 15-16 sem. hrs.     |

Note: In order to declare the Pre- Chiropractic concentration a student must have received a C- or better in MATH 107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155 and obtained a GPA of 2.75.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

**BACHELOR OF SCIENCE DEGREE - HEALTH SCIENCES  
PRE-CHIROPRACTIC - 3 + 3 PROGRAM**

BE A DOCTOR of CHIROPRACTIC IN 6 YEARS!

Edinboro University students can now get an early start on chiropractic school! Edinboro has established affiliations with the New York Chiropractic College (NYCC) and Logan University (Logan) enabling Edinboro University Pre- Chiropractic Biology majors to enter NYCC or Logan after their junior year of college. The agreements establish three plus three programs in chiropractic medicine practice, which refers to three years undergraduate study at Edinboro and three years of chiropractic school at NYCC or Logan. Students who successfully complete their first year of studies at NYCC or Logan and transfer their credits back to Edinboro will earn a Bachelor of Science degree in biology from Edinboro.

The three plus three programs in chiropractic medicine provides students with an interest in chiropractic practice the advantage of complementary program strengths at Edinboro University and a state-of-the-art chiropractic education at NYCC or Logan University. Students interested in applying for admission to the three plus three programs in chiropractic medicine should apply for BS Health Sciences (0462) and write NYCC or Logan next to their selection.

Students interested in NYCC need submit a letter of intent to NYCC identifying themselves as articulation students and identifying their desired date of entrance to NYCC. Students must also apply for admission to NYCC one year in advance of their desired entrance date and complete all other application procedures including a satisfactory admission interview. Students passing the NYCC admission and maintaining an overall GPA of at least 3.0 and a minimum 2.0 science courses over their three years at Edinboro, shall be accepted at NYCC for the entrance date of their choice and be automatically awarded a NYCC merit scholarship valued at \$1500.

Students interested in Logan will complete an application to Logan six months to a year prior to their desired entrance date and will complete all required application procedures including a satisfactory interview. Students passing the Logan admission and maintaining an overall GPA of at least 3.0 over their three years at Edinboro, shall be accepted at Logan for the entrance date of Logan's choice. Students applying to Logan doctorate program under the 3 + 3 Program Agreement will qualify for their application fee to be waived.

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.

**BACHELOR OF SCIENCE DEGREE-HEALTH SCIENCES  
PRE-CHIROPRACTIC 3 + 3 PROGRAM  
(Suggested Eight-Semester Sequence)**
**First Semester**

|         |                             |                     |
|---------|-----------------------------|---------------------|
| BIOL150 | Principles of Biology (4)   |                     |
| ENGL101 | College Writing Skills (3)  |                     |
| CSCI104 | Essentials of Computing (3) |                     |
| SOC100  | Principles of Sociology (3) |                     |
| GEN.ED. | Core I (3)                  |                     |
|         | <b>TOTAL</b>                | <b>16 sem. hrs.</b> |

**Second Semester**

|         |   |                     |
|---------|---|---------------------|
| BIOL155 | Principles of Biology II (4)                        |                     |
| CHEM140 | General Chemistry (4)                               |                     |
| MATH107 | Pre-calculus (4)                                    |                     |
| ENGL102 | Specialized College Writing and Research Skills (3) |                     |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

**Summer**

|         |                             |                    |
|---------|-----------------------------|--------------------|
| BIOL219 | Biomedical Terminology (3)  |                    |
|         | Highly Recommended Elective |                    |
|         | <b>TOTAL</b>                | <b>3 sem. hrs.</b> |

**Third Semester**

|         |                               |                     |
|---------|-------------------------------|---------------------|
| BIOL312 | Physiology at1d Anatomy I (4) |                     |
| CHEM301 | General Organic Chemistry (4) |                     |
| STAT260 | Elements of Statistics (3)    |                     |
| PHYS201 | Physics I (4)                 |                     |
|         | <b>TOTAL</b>                  | <b>15 sem. hrs.</b> |

**Fourth Semester**

|          |                                |                     |
|----------|--------------------------------|---------------------|
| BIOL313  | Physiology and Anatomy II (4)  |                     |
| BIOL300  | Genetics or                    |                     |
| BIOL 305 | Cell/Molecular Biology (4)     |                     |
| CHEM302  | General Biochemistry (4)       |                     |
| PSYC101  | Introduction to Psychology (3) |                     |
|          | <b>TOTAL</b>                   | <b>15 sem. hrs.</b> |

**Fifth Semester**

|         |  |                     |
|---------|--|---------------------|
| BIOL318 | Clinical Microbiology (4)              |                     |
| COMM107 | Public Speaking (3)                    |                     |
| PSYC345 | Introduction to Brain and Behavior (3) |                     |
|         | Highly Recommended Elective            |                     |
|         | Nutrition (3)                          |                     |
|         | Highly Recommended Elective            |                     |
|         | Core 2 (3)                             |                     |
|         | <b>TOTAL</b>                           | <b>16 sem. hrs.</b> |

**Sixth Semester**

|          |                                  |                     |
|----------|----------------------------------|---------------------|
| BIOL200  | Bioethics (3)                    |                     |
| COMM325  | Interpersonal Communication (3)- |                     |
|          | Highly Recommended Elective      |                     |
|          | Distribution 2 (3)               |                     |
| GEN. ED. | Core 3 (3)                       |                     |
| GEN. ED. | FREE ELECTIVE (4)                |                     |
|          | <b>TOTAL</b>                     | <b>16 sem. hrs.</b> |

**Seventh and Eight Semesters at NYCC or Logan**

|          |                                  |                     |
|----------|----------------------------------|---------------------|
| BIOL 399 | Biology Elective (24)            |                     |
|          | (transferred from NYCC or Logan) |                     |
|          | <b>TOTAL</b>                     | <b>24 sem. hrs.</b> |

Note: At least 42 semester hours must consist of advanced coursework.  
Note: Students must maintain grade point averages of at least a 3.0 overall and a 2.0 in science courses for their first three years at Edinboro University. Note: Students need a C or better in their NYCC or Logan Chiropractic courses in order to be transferred back as BIOL 399.

**BACHELOR OF SCIENCE-HEALTH SCIENCES  
BIOLOGY PRE-DENTAL  
(Suggested Eight-Semester Sequence)**
**First Semester**

|               |  |                        |
|---------------|--|------------------------|
| BIOL150       | Principles of Biology (4)                |                        |
| CHEM240       | Principles of Chemistry I (4)            |                        |
| ENGL101       | College Writing Skills (3)               |                        |
| FREE ELECTIVE | MATH 107 pre-calculus if needed (3 or 4) |                        |
|               | <b>TOTAL</b>                             | <b>14-15 sem. hrs.</b> |

**Second Semester**

|         |   |                     |
|---------|---|---------------------|
| BIOL155 | Principles of Biology II (4)                        |                     |
| CHEM241 | Principles of Chemistry II (4)                      |                     |
| ENGL102 | Specialized College Writing and Research Skills (3) |                     |
| MATH211 | Analytical Geometry and Calculus I (4)              |                     |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

**Third Semester**

|                 |   |
|-----------------|---|
| BIOL300         | Genetics (4)                                |
| CHEM330         | Organic Chemistry I (4)                     |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
| SOC100          | Principles of Sociology (3)                 |
|                 | TOTAL 14-15 sem. hrs.                       |

**Fourth Semester**

|         |                            |
|---------|----------------------------|
| BIOL305 | Cell/Molecular Biology (4) |
| CHEM331 | Organic Chemistry II (4)   |
| PHYS201 | Physics I (4)              |
| PSYC101 | Intro to Psychology (3)    |
|         | TOTAL 15 sem. hrs.         |

**Fifth Semester**

|          |                           |
|----------|---------------------------|
| BIOL318  | Clinical Microbiology (4) |
| PHYS202  | Physics II (4)            |
| ART106   | Drawing I (3)             |
| Gen. Ed. | Core 1 class (3)          |
|          | TOTAL 14 sem. hrs.        |

**Sixth Semester**

|         |                           |
|---------|---------------------------|
|         | Capstone Experience (2-3) |
| CHEM302 | General Biochemistry (4)  |
| ART102  | Design-3 Dimensions (3)   |
| COMM107 | Public Speaking (3)       |
|         | FREE ELECTIVE (3)         |
|         | TOTAL 15-16 sem. hrs.     |

**Seventh Semester**

|          |                                 |
|----------|---------------------------------|
| BIOL341  | Vertebrate Anatomy (4)          |
| BIOL200  | Bioethics (3)                   |
| COMM325  | Interpersonal Communication (3) |
| Gen. Ed. | Core 2 class (3)                |
| Gen. Ed. | Core 3 class (3)                |
|          | TOTAL 16 sem. hrs.              |

**Eighth Semester**

|          |                          |
|----------|--------------------------|
| BIOL340  | Animal Physiology (4)    |
| Gen. Ed. | Distribution 2 class (3) |
|          | FREE ELECTIVE (8-9)      |
|          | TOTAL 15-16 sem. hrs.    |

Note: In order to declare the Pre-Dental concentration a student must have received a C- or better in MATH 107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155 and obtained a GPA of 3.3.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

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**BACHELOR OF SCIENCE HEALTH SCIENCES-PRE-MEDICAL (MD, DO, DPM-Podiatric)**  
(Suggested Eight-Semester Sequence)

**First Semester**

|               |  |
|---------------|--|
| BIOL150       | Principles of Biology (4)                    |
| CHEM240       | Principles of Chemistry I (4)                |
| ENGL101       | College Writing Skills (3)                   |
| FREE ELECTIVE | (MATH107 pre-calculus if needed)<br>(3 or 4) |
|               | TOTAL 14-15 sem. hrs.                        |

**Second Semester**

|         |  |
|---------|--|
| BIOL155 | Principles of Biology II (4)                           |
| CHEM241 | Principles of Chemistry II (4)                         |
| ENGL102 | Specialized College Writing and<br>Research Skills (3) |
| MATH211 | Analytical Geometry and Calculus I (4)                 |
|         | TOTAL 15 sem. hrs.                                     |

**Third Semester**

|                 |   |
|-----------------|---|
| BIOL300         | Genetics (4)                                |
| CHEM330         | Organic Chemistry I (4)                     |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
| SOC100          | Principles of Sociology (3)                 |
|                 | TOTAL 14-15 sem. hrs.                       |

**Fourth Semester**

|         |                            |
|---------|----------------------------|
| BIOL305 | Cell/Molecular Biology (4) |
| CHEM331 | Organic Chemistry II (4)   |
| PHYS201 | Physics I (4)              |
| PSYC101 | Intro to Psychology (3)    |
|         | TOTAL 15 sem. hrs.         |

**Fifth Semester**

|          |                           |
|----------|---------------------------|
| BIOL318  | Clinical Microbiology (4) |
| PHYS202  | Physics II (4)            |
| PSYC332  | Health Psychology (3)     |
| Gen. Ed. | Core I class (3)          |
|          | TOTAL 14 sem. hrs.        |

**Sixth Semester**

|         |  |
|---------|--|
|         | Capstone Experience (2-3)              |
| CHEM302 | General Biochemistry (4)               |
| PSYC345 | Introduction to Brain and Behavior (3) |
| COMM107 | Public Speaking (3)                    |
|         | FREE ELECTIVE (3)                      |
|         | TOTAL 15-16 sem. hrs.                  |

**Seventh Semester**

|          |                                 |
|----------|---------------------------------|
| BIOL341  | Vertebrate Anatomy (4)          |
| BIOL200  | Bioethics (3)                   |
| COMM325  | Interpersonal Communication (3) |
| Gen. Ed. | Core 2 class (3)                |
| Gen. Ed. | Core 3 class (3)                |
|          | TOTAL 16 sem. hrs.              |

**Eighth Semester**

|          |                          |
|----------|--------------------------|
| BIOL340  | Animal Physiology (4)    |
| Gen. Ed. | Distribution 2 class (3) |
|          | FREE ELECTIVE (8-9)      |
|          | TOTAL 15-16 sem. hrs.    |

Note: In order to declare the Pre-Medical concentration a student must have received a C- or better in MATH 107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155 and obtained a GPA of 3.3.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

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**BE A DOCTOR IN 7 YEARS! HEALTH SCIENCES  
PRE-MEDICAL LECOM, 3+4 PROGRAM**

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 3 + 4 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.

The 3 + 4 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 interested in applying for admission to the 3 + 4 program in family medicine need to apply to the Early Acceptance Program through the LECOM on-

line enrollment form at [www.lecom.edu](http://www.lecom.edu) prior to entering Edinboro University or before starting their second year of study at Edinboro University. To qualify, students must meet LECOM'S current entrance requirements, such as a high school grade point average of 3.5 or higher and a score of at least 1170 on the SAT, or 26 on the ACT. Students already attending Edinboro University must have a minimum grade point average, currently overall 3.4 or higher. Once accepted by LECOM, students need to apply or transfer into Edinboro's (0444) 3 + 4 pre-med program and write LECOM next to their selection.

Once admitted into the 3+4 Program, students must maintain their overall and science grade point averages, typically at least a 3.4 overall and a 3.2 in science courses for their three years at Edinboro University. Then to be admitted to LECOM, students may be required to score the current LECOM minimum or better on the medical college admissions test, typically with a score of seven or better in each subject. Students who successfully (obtain a C or better in 20 credit hours) complete their first year of studies at LECOM must request official transcripts be sent from LECOM to EU and apply for graduation online at [my.edinboro.edu](http://my.edinboro.edu) for a Bachelor of Science degree to be awarded from Edinboro.

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.

### BACHELOR OF SCIENCE- HEALTH SCIENCES 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)               |
| FREE ELECTIVE | MATH I07 pre-calculus if needed (3 or 4) |
|               | TOTAL 14-15 sem. hrs.                    |

#### Second Semester

|         |   |
|---------|---|
| BIOL155 | Principles of Biology II (4)                        |
| CHEM241 | Principles of Chemistry II (4)                      |
| ENGL102 | Specialized College Writing and Research Skills (3) |
| MATH211 | Analytical Geometry and Calculus I (4)              |
|         | TOTAL 15 sem. hrs.                                  |

#### Third Semester

|                 |   |
|-----------------|---|
| BIOL300         | Genetics (4)                                |
| CHEM330         | Organic Chemistry I (4)                     |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
| PSYC101         | Intro to Psychology (3)                     |
| SOC100          | Prin. Sociology (3)                         |
|                 | TOTAL 17-18 sem. hrs.                       |

#### Fourth Semester

|          |                           |
|----------|---------------------------|
| BIOL318  | Clinical Microbiology (4) |
| CHEM331  | Organic Chemistry II (4)  |
| Gen. Ed. | Core 1 class (3)          |
| Gen. Ed. | Core 2 class (3)          |
| COMM107  | Public Speaking (3)       |
|          | TOTAL 17 sem. hrs.        |

#### Fifth Semester

|          |                          |
|----------|--------------------------|
| PHYS201  | Physics I (4)            |
| Gen. Ed. | Core 3 class (3)         |
| BIOL341  | Vertebrate Anatomy (3)   |
| Gen. Ed. | Distribution 2 class (3) |
|          | Free elective (5)        |
|          | TOTAL 18 sem. hrs.       |

#### Sixth Semester

|         |                          |
|---------|--------------------------|
| BIOL200 | Bioethics (3)            |
| CHEM302 | General Biochemistry (4) |
| PHYS202 | Physics II (4)           |
|         | Free elective (6-7)      |
|         | TOTAL 17-18 sem. hrs.    |

#### Seventh and Eight Semesters at LECOM

|          |   |
|----------|---|
| BIOL 399 | Biology Elective (20)<br>(transferred from LECOM) |
|          | TOTAL 20 sem. hrs.                                |

Note: At least 42 semester hours must consist of advanced coursework.  
Note: Students must apply and be accepted into the program by LECOM and 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.  
Note: Students need a C or better in their LECOM courses in order to be transferred back as BIOL 399.

### BE A DOCTOR IN EIGHT YEARS! HEALTH SCIENCES PRE-MEDICAL LECOM 4 + 4 PROGRAM

Edinboro University students can now get an early acceptance to 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 senior year of college. The agreement establishes a four plus four program in family medicine practice between the two schools, which refers to four years undergraduate study at Edinboro and four years of medical school at LECOM.

The four 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 interested in applying for admission to the four plus four program in family medicine need to apply to the Early Acceptance Program through the LECOM on-line enrollment form at [www.lecom.edu](http://www.lecom.edu) prior to entering Edinboro University or before starting their third year of study at Edinboro University. To qualify, students must meet LECOM'S current high school grade point average and SAT or ACT score, typically a high school grade point average of 3.5 or higher and a score of at least 1170 on the SAT, or 26 on the ACT. Students already attending Edinboro University must have a minimum grade point average, currently overall 3.4 or higher. Once accepted by LECOM, students need to apply or transfer into Edinboro's (0445) 4 + 4 pre-med program and write LECOM next to their selection.

Once admitted into the 4 + 4 program, students must maintain their overall and science grade point averages, typically at least a 3.4 overall and a 3.2 in science courses for their three years at Edinboro University. Then to be admitted to LECOM, students may be required to 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.

**BACHELOR OF SCIENCE-HEALTH SCIENCES  
PRE-MEDICAL LECOM 4+4 Program (0445)  
(Suggested Eight-Semester Sequence)**

**First Semester**

|                       |  |
|-----------------------|--|
| BIOL150               | Principles of Biology (4)                |
| CHEM240               | Principles of Chemistry I (4)            |
| ENGL101               | College Writing Skills (3)               |
| FREE ELECTIVE         | MATH 107 pre-calculus if needed (3 or 4) |
| TOTAL 14-15 sem. hrs. |  |

**Second Semester**

|                    |   |
|--------------------|---|
| BIOL155            | Principles of Biology II (4)                        |
| CHEM241            | Principles of Chemistry II (4)                      |
| ENGL102            | Specialized College Writing and Research Skills (3) |
| MATH211            | Analytical Geometry and Calculus I (4)              |
| TOTAL 15 sem. hrs. |   |

**Third Semester**

|                       |   |
|-----------------------|---|
| BIOL300               | Genetics (4)                                |
| CHEM330               | Organic Chemistry (4)                       |
| STAT260               | Elements of Statistics (3) or               |
| PSYC225 and 226       | Psychological Statistics and Discussion (4) |
| SOC100                | Principles of Sociology (3)                 |
| TOTAL 14-15 sem. hrs. |   |

**Fourth Semester**

|                    |                            |
|--------------------|----------------------------|
| BIOL305            | Cell/Molecular Biology (4) |
| CHEM331            | Organic Chemistry II (4)   |
| PHYS201            | Physics I (4)              |
| PSYC101            | Intro to Psychology (3)    |
| TOTAL 15 sem. hrs. |                            |

**Fifth Semester**

|                    |                           |
|--------------------|---------------------------|
| BIOL318            | Clinical Microbiology (4) |
| PHYS202            | Physics II (4)            |
| PSYC332            | Health Psychology (3)     |
| Gen. Ed.           | Core I class (3)          |
| TOTAL 14 sem. hrs. |                           |

**Sixth Semester**

|                        |  |
|------------------------|--|
|                        | Capstone Experience (2-3)              |
| CHEM302                | General Biochemistry (4)               |
| PSYC345                | Introduction to Brain and Behavior (3) |
| COMM107                | Public Speaking (3)                    |
|                        | FREE ELECTIVE (3)                      |
| TOTAL 15- 16 sem. hrs. |  |

**Seventh Semester**

|                    |                                 |
|--------------------|---------------------------------|
| BIOL341            | Vertebrate Anatomy (4)          |
| BIOL200            | Bioethics (3)                   |
| COMM325            | Interpersonal Communication (3) |
| Gen. Ed.           | Core 2 class (3)                |
| Gen. Ed.           | Core 3 class (3)                |
| TOTAL 16 sem. hrs. |                                 |

**Eighth Semester**

|                       |                          |
|-----------------------|--------------------------|
| BIOL340               | Animal Physiology        |
| Gen. Ed.              | Distribution 2 class (3) |
|                       | FREE ELECTIVE (8-9)      |
| TOTAL 15-16 sem. hrs. |                          |

Note: Note: Students must apply and be accepted into the program by LECOM and maintain grade point averages of at least a 3.4 overall and a 3.2 in science courses for their years at Edinboro University.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

**BACHELOR OF SCIENCE - HEALTH SCIENCES  
PRE-OCCUPATIONAL THERAPY  
(Suggested Eight-Semester Sequence)**

**First Semester**

|                    |                               |
|--------------------|-------------------------------|
| BIOL150            | Principles of Biology (4)     |
| CHEM240            | Principles of Chemistry I (4) |
| ENGL101            | College Writing Skills (3)    |
| SOC100             | Principles of Sociology (3)   |
| TOTAL 14 sem. hrs. |                               |

**Second Semester**

|                    |   |
|--------------------|---|
| BIOL155            | Principles of Biology II (4)                        |
| CHEM241            | Principles of Chemistry II (4)                      |
| ENGL102            | Specialized College Writing and Research Skills (3) |
| MATH107            | Pre-calculus (4)                                    |
| TOTAL 15 sem. hrs. |   |

**Summer**

|                   |                            |
|-------------------|----------------------------|
| BIOL219           | Biomedical Terminology (3) |
| TOTAL 3 sem. hrs. |                            |

**Third Semester**

|                       |   |
|-----------------------|---|
| BIOL312               | Human Physiology and Anatomy I (4)          |
| CHEM301               | General Organic Chemistry (4)               |
| STAT260               | Elements of Statistics (3) or               |
| PSYC225 and 226       | Psychological Statistics and Discussion (4) |
| PSYC101               | Intro to Psychology (3)                     |
| TOTAL 14-15 sem. hrs. |   |

**Fourth Semester**

|                    |                                     |
|--------------------|-------------------------------------|
| BIOL300            | Genetics or                         |
| BIOL 305           | Cell/Molecular Biology (4)          |
| BIOL313            | Human Physiology and Anatomy If (4) |
| CHEM302            | General Biochemistry (4)            |
| PSYC3 17           | Developmental Psychology (3)        |
| TOTAL 15 sem. hrs. |                                     |

**Fifth Semester**

|                    |                           |
|--------------------|---------------------------|
| BIOL318            | Clinical Microbiology (4) |
| PHYS201            | Physics I (4)             |
| HPE314             | Kinesiology (3)           |
| PSYC365            | Abnormal Psychology (3)   |
| TOTAL 14 sem. hrs. |                           |

**Sixth Semester**

|                    |                           |
|--------------------|---------------------------|
| BIOL200            | Bioethics (3)             |
| HPE350             | Exercise Physiology I (3) |
| COMM107            | Public Speaking (3)       |
| Gen. Ed.           | Core I class (3)          |
| Gen. Ed.           | Core 2 class (3)          |
| TOTAL 15 sem. hrs. |                           |

**Seventh Semester**

|                    |                                 |
|--------------------|---------------------------------|
| COMM325            | Interpersonal Communication (3) |
| Gen. Ed.           | Core 3 class (3)                |
|                    | Free Electives (9)              |
| TOTAL 15 sem. hrs. |                                 |

**Eighth Semester**

|                       |                           |
|-----------------------|---------------------------|
|                       | Capstone Experience (2-4) |
|                       | Free Elective (10-13)     |
| TOTAL 14-15 sem. hrs. |                           |

Note: In order to declare the Pre-Occupational Therapy concentration a student must have received a C- or better in MATH107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 1 50 and 155 and obtained a GPA of 3.0.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

**BACHELOR OF SCIENCE - HEALTH SCIENCES  
PRE-OPTOMETRY  
(Suggested Eight-Semester Sequence)**

**First Semester**

|               |  |
|---------------|--|
| BIOL150       | Principles of Biology (4)                |
| CHEM240       | Principles of Chemistry I (4)            |
| ENGL101       | College Writing Skills (3)               |
| FREE ELECTIVE | MATH 107 pre-calculus if needed (3 or 4) |
|               | TOTAL 14-15 sem. hrs.                    |

**Second Semester**

|         |   |
|---------|---|
| BIOL155 | Principles of Biology II (4)                        |
| CHEM241 | Principles of Chemistry II (4)                      |
| ENGL102 | Specialized College Writing and Research Skills (3) |
| MATH211 | Analytical Geometry and Calculus I (4)              |
|         | TOTAL 15 sem. hrs.                                  |

**Third Semester**

|                 |   |
|-----------------|---|
| BIOL300         | Genetics (4)                                |
| CHEM330         | Organic Chemistry I (4)                     |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
| SOC100          | Principles of Sociology (3)                 |
|                 | TOTAL 14-15 sem. hrs.                       |

**Fourth Semester**

|          |                            |
|----------|----------------------------|
| BIOL305  | Cell Molecular Biology (4) |
| CHEM331  | Organic Chemistry II (4)   |
| PHYS20 I | Physics I (4)              |
| PSYC101  | Intro to Psychology (3)    |
|          | TOTAL 15 sem. hrs.         |

**Fifth Semester**

|          |  |
|----------|--|
| BIOL318  | Clinical Microbiology (4)              |
| PHYS202  | Physics II (4)                         |
| PSYC345  | Introduction to Brain and Behavior (3) |
| Gen. Ed. | Core I class (3)                       |
|          | TOTAL 14 sem. hrs.                     |

**Sixth Semester**

|          |                               |
|----------|-------------------------------|
|          | Capstone Experience (2-3)     |
| CHEM302  | General Biochemistry (4)      |
| PHYS302  | Nature of Light and Color (3) |
| COMM 107 | Public Speaking (3)           |
|          | FREE ELECTIVE (3)             |
|          | TOTAL 15-16 sem. hrs.         |

**Seventh Semester**

|          |                                 |
|----------|---------------------------------|
| BIOL341  | Vertebrate Anatomy (4)          |
| BIOL200  | Bioethics (3)                   |
| COMM325  | Interpersonal Communication (3) |
| Gen. Ed. | Core 2 class (3)                |
| Gen. Ed. | Core 3 class (3)                |
|          | TOTAL 16 sem. hrs.              |

**Eighth Semester**

|          |                          |
|----------|--------------------------|
| BIOL340  | Animal Physiology (4)    |
| Gen. Ed. | Distribution 2 class (3) |
|          | FREE ELECTIVE (8-9)      |
|          | TOTAL 15-16 sem. hrs.    |

Note: In order to declare the Pre-Optometry concentration a student must have received a C- or better in MATH107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155 and obtained a GPA of 3.0.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

**BACHELOR OF SCIENCE- HEALTH SCIENCES  
PRE-PHYSICAL THERAPY  
(Suggested Eight-Semester Sequence)**

**First Semester**

|         |                               |
|---------|-------------------------------|
| BIOL150 | Principles of Biology (4)     |
| CHEM240 | Principles of Chemistry I (4) |
| ENGL101 | College Writing Skills (3)    |
| SOC100  | Principles of Sociology (3)   |
|         | TOTAL 14 sem. hrs.            |

**Second Semester**

|         |   |
|---------|---|
| BIOL155 | Principles of Biology II (4)                        |
| CHEM241 | Principles of Chemistry II (4)                      |
| ENGL102 | Specialized College Writing and Research Skills (3) |
| MATH107 | Pre-calculus (4)                                    |
|         | TOTAL 15 sem. hrs.                                  |

**Summer**

|         |                            |
|---------|----------------------------|
| BIOL219 | Biomedical Terminology (3) |
|         | TOTAL 3 sem. hrs.          |

**Third Semester**

|                 |   |
|-----------------|---|
| BIOL312         | Human Physiology and Anatomy I (4)          |
| CHEM301         | General Organic Chemistry (4)               |
| STAT260         | Elements of Statistics (3) or               |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |
| PSYC101         | Intro to Psychology (3)                     |
|                 | TOTAL 14-15 sem. hrs                        |

**Fourth Semester**

|          |                                     |
|----------|-------------------------------------|
| BIOL300  | Genetics or                         |
| BIOL 305 | Cell/Molecular Biology (4)          |
| BIOL313  | Human Physiology and Anatomy II (4) |
| CHEM302  | General Biochemistry (4)            |
| PSYC345  | Intro Brain and Behavior (3)        |
|          | TOTAL 15 sem. hrs.                  |

**Fifth Semester**

|         |                           |
|---------|---------------------------|
| BIOL318 | Clinical Microbiology (4) |
| PHYS201 | Physics 1 (4)             |
| HPE314  | Kinesiology(3)            |
| COMM107 | Public Speaking (3)       |
|         | TOTAL 14 sem. hrs.        |

**Sixth Semester**

|          |                                 |
|----------|---------------------------------|
| PHYS202  | Physics II (4)                  |
| HPE350   | Exercise Physiology I (3)       |
| COMM325  | Interpersonal Communication (3) |
| Gen. Ed. | Core 1 class (3)                |
| Gen. Ed. | Core 2 class (3)                |
|          | TOTAL 16 sem. hrs.              |

**Seventh Semester**

|          |                          |
|----------|--------------------------|
| BIOL200  | Bioethics (3)            |
| Gen. Ed. | Distribution 2 class (3) |
| Gen. Ed. | Core 3 class (3)         |
|          | Free Elective (6)        |
|          | TOTAL 15 sem. hrs.       |

**Eighth Semester**

|  |                           |
|--|---------------------------|
|  | Capstone Experience (2-4) |
|  | Free Elective (9-J 2)     |
|  | TOTAL 13-14 sem. hrs.     |

Note: In order to declare the Pre- Physical Therapy concentration a student must have received a C- or better in MATH107 or MATH211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155 and obtained a GPA of 3.0.

Note: In order to graduate students must have at least 42 semester hours must consist of advanced coursework.

**BACHELOR OF SCIENCE HEALTH SCIENCES 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)    |              |
| SOC100  | Principles of Sociology (3)   |              |
|         | <b>TOTAL</b>                  | 14 sem. hrs. |

**Second Semester**

|         |  |              |
|---------|--|--------------|
| BIOL155 | Principles of Biology II (4)                           |              |
| CHEM241 | Principles of Chemistry II (4)                         |              |
| ENGL102 | Specialized College Writing and<br>Research Skills (3) |              |
| MATH107 | Pre-calculus (4)                                       |              |
|         | <b>TOTAL</b>   | 15 sem. hrs. |

**Summer**

|         |                            |             |
|---------|----------------------------|-------------|
| BIOL219 | Biomedical Terminology (3) |             |
|         | <b>TOTAL</b>               | 3 sem. hrs. |

**Third Semester**

|                 |   |              |
|-----------------|---|--------------|
| BIOL312         | Human Physiology and Anatomy I (4)          |              |
| CHEM301         | General Organic Chemistry (4)               |              |
| STAT260         | Elements of Statistics (3) or               |              |
| PSYC225 and 226 | Psychological Statistics and Discussion (4) |              |
| PSYC101         | Intro to Psychology (3)                     |              |
|                 | <b>TOTAL</b>                                | 15 sem. hrs. |

**Fourth Semester**

|          |                                     |              |
|----------|-------------------------------------|--------------|
| BIOL300  | Genetics or                         |              |
| BIOL 305 | Cell/Molecular Biology (4)          |              |
| BIOL313  | Human Physiology and Anatomy II (4) |              |
| CHEM302  | General Biochemistry (4)            |              |
| PSYC332  | Health Psychology (3)               |              |
|          | <b>TOTAL</b>                        | 15 sem. hrs. |

**Fifth Semester**

|         |                              |              |
|---------|------------------------------|--------------|
| BIOL318 | Clinical Microbiology (4)    |              |
| PHYS201 | Physics I (4)                |              |
| PSYC345 | Intro Brain and Behavior (3) |              |
| COMM107 | Public Speaking (3)          |              |
|         | <b>TOTAL</b>                 | 14 sem. hrs. |

**Sixth Semester**

|          |                                 |                 |
|----------|---------------------------------|-----------------|
|          | Capstone Experience (2-4)       |                 |
| PHYS202  | Physics II (4)                  |                 |
| COMM325  | Interpersonal Communication (3) |                 |
| Gen. Ed. | Core 1 class (3)                |                 |
| Gen. Ed. | Core 2 class (3)                |                 |
|          | <b>TOTAL</b>                    | 15-17 sem. hrs. |

**Seventh Semester**

|          |                          |                 |
|----------|--------------------------|-----------------|
| BIOL200  | Bioethics (3)            |                 |
| Gen. Ed. | Distribution 2 class (3) |                 |
| Gen. Ed. | Core 3 class (3)         |                 |
|          | Free Elective (3-6)      |                 |
|          | <b>TOTAL</b>             | 12-15 sem. hrs. |

**Eighth Semester**

|         |                    |              |
|---------|--------------------|--------------|
| NUTR310 | Nutrition (3)      |              |
|         | Free Elective (12) |              |
|         | <b>TOTAL</b>       | 15 sem. hrs. |

Note: In order to declare the Pre-Physician Assistant concentration a student must have received a C- or better in MATH 107 or MATH 211, CHEM 140 or CHEM 240 and 241, and BIOL 150 and 155 and obtained a GPA of 3.0.

Note: In order to graduate students must have 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.                            |
| STAT 260, not MATH 104, 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. Capstone Experience  | 0-2 sem. hrs.                           |
| Students must submit a portfolio and do <b>ONE</b> of the following: document presentation of their research at a scientific meeting, do an internship specifically approved as a capstone or take BIOL495 Senior Capstone Seminar. |   |
| IV. Biology Electives   | 10-16sem. hrs.                          |
| <b>Note: at least one must be a designated research intensive course:</b> BIOL308, BIOL320, BIOL342, BIOL403, BIOL409, BIOL457, BIOL472, BIOL482, and BIOL643 (BIOL395 and BIOL490 if specifically approved as research intensive). |   |
| The rest must be selected from the following: BIOL302, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for BIOL395 and 490), and PYMA courses.  |   |
| V. 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)                          |
| VI. Free Electives  | 15 sem. hrs.                            |
| <b>TOTAL</b>  | <b>120 sem. hrs.</b>                    |



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 (4)       |
|         | TOTAL 14 sem. hrs.            |

#### Second Semester

|         |                                |
|---------|--------------------------------|
| ENGL102 | Research Writing (3)           |
| BIOL230 | Botany or BIOL240 Zoology (4)  |
| CHEM241 | Principles of Chemistry II (4) |
|         | Core (3)                       |
|         | TOTAL 14 sem. hrs.             |

#### Third Semester

|         |   |
|---------|---|
| BIOL240 | Zoology (4)   |
| CHEM301 | General Organic Chemistry (4) <b>or</b>                                       |
| CHEM330 | Organic Chemistry I (4)   |
| MATH211 | Analytical Geometry and Calculus I if<br>already taken Free Elective (3 or 4) |
|         | Core (3)  |
|         | TOTAL 14-15 sem. hrs.   |

#### Fourth Semester

|         |                                    |
|---------|------------------------------------|
| BIOL300 | Genetics (4)                       |
| CHEM331 | Organic Chemistry II (4) <b>or</b> |
| CHEM302 | General Biochemistry (4)           |
| STAT260 | Elements of Statistics (3)         |
|         | Core (3)                           |
|         | Core (3)                           |
|         | TOTAL 17 sem. hrs.                 |

#### Fifth Semester

|         |                                |
|---------|--------------------------------|
| BIOL305 | Cellular/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) *                    |
| BIOL    | Biology Elective-Research Intensive (3-4) |
|         | Core (3)                                  |
|         | Free Elective (1-3)                       |
|         | TOTAL 15-18 sem. hrs.                     |

#### Eighth Semester

|  |                            |
|--|----------------------------|
|  | Biology Elective <b>or</b> |
|  | Capstone Experience (2)    |
|  | Distribution (3)           |
|  | Free Electives (6)         |
|  | TOTAL 11 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 one must be a designated research intensive course:** BIOL308, BIOL320, BIOL342, BIOL403, BIOL409, BIOL457, BIOL472, BIOL482, and BIOL643 (BIOL395 and BIOL490 if specifically approved as research intensive).

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

### PRE-VETERINARY PROGRAM

Students planning post baccalaureate study in veterinary sciences may enroll in the track described below. Although the individual requirements of veterinary schools vary, Edinboro University offers this course of study which will satisfy the entrance requirements of most schools. Students should review and discuss with their academic advisor the specific requirements of the institutes they are interested in applying to. Entrance into veterinary schools are very competitive, students must be well rounded, show leadership ability, participate in activities outside of academics, do well on the entrance exam, and have a very good GPA (typically 3.5 or higher).

### BACHELOR OF SCIENCE – BIOLOGY – PRE-VETERINARY (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 14-15 sem. hrs.         |

#### Second Semester

|         |   |
|---------|---|
| BIOL230 | Botany or BIOL240 Zoology (4)                                   |
| CHEM241 | Principles of Chemistry II (4)                                  |
| ENGL102 | Research Writing (3)  |
| MATH211 | Analytical Geometry and Calculus I or<br>Free elective (3 or 4) |
|         | TOTAL 14-15 sem. hrs.   |

#### Third Semester

|         |                            |
|---------|----------------------------|
| BIOL240 | Zoology (4)                |
| CHEM330 | Organic Chemistry I (4)    |
| STAT260 | Elements of Statistics (3) |
|         | Core (3)                   |
|         | TOTAL 14 sem. hrs.         |

#### Fourth Semester

|         |                            |
|---------|----------------------------|
| BIOL300 | Genetics <b>or</b>         |
| BIOL305 | Cell/Molecular Biology (4) |
| CHEM331 | Organic Chemistry II (4)   |
| PHYS201 | Physics I (4)              |
|         | Core (3)                   |
|         | TOTAL 15 sem. hrs.         |

#### Fifth Semester

|         |                                |
|---------|--------------------------------|
| BIOL305 | Cellular/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<br>Microbiology recommended (4) * |
|         | Free Elective –PSYC 425 Behavioral<br>Neuroscience Recommended (3)   |
|         | Core (3)   |
|         | TOTAL 16 sem. hrs.   |

**Seventh Semester**

|         |  |
|---------|--|
| BIOL400 | Ecology (4)                              |
| BIOL    | Biology Elective-Research Intensive (4)* |
|         | Core (3)                                 |
|         | Core (3)                                 |
|         | Free Elective-PSYC332 Health             |
|         | Psychology Recommended (3)               |
|         | TOTAL 16 sem. hrs.                       |

**Eighth Semester**

|  |                                   |
|--|-----------------------------------|
|  | Capstone Experience (2) <b>or</b> |
|  | Biology Electives (5)*            |
|  | Distribution (3)                  |
|  | Distribution (3)                  |
|  | Free Elective (5-9)               |
|  | TOTAL 13-20 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 one must be a designated research intensive course:** BIOL308, BIOL320, BIOL342, BIOL403, BIOL409, BIOL457, BIOL472, BIOL482, and BIOL643 (BIOL395 and BIOL490 if specifically approved as research intensive).

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 and PYMA courses (excluding free electives).

## Bachelor of Science Degree

### Environmental 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. Capstone Experience  | 0-2 sem. hrs. |
| Students must do <b>ONE</b> of the following: document presentation of their research at a scientific meeting, do an internship specifically approved as a capstone or take BIOL 495 Biology Capstone Course. |               |

|   |                |
|---|----------------|
| IV. Biology Electives   | 16-18sem. hrs. |
| <b>Note: at least one must be a designated research intensive course:</b> BIOL308, BIOL342, BIOL403, BIOL409, BIOL457, BIOL482, and BIOL643 (BIOL395 and BIOL490 if specifically approved as research intensive). |                |
| The rest 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.                                   |                |

|                                 |  |
|---------------------------------|--|
| V. 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) |
| ENGL305                         | Technical Writing (3)                  |
| GEOS375                         | Environmental Geology (3)              |

|                    |                     |
|--------------------|---------------------|
| VI. Free Electives | 16 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 – ENVIRONMENTAL 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)  |
|         | TOTAL 14-15 sem. hrs.         |

**Second Semester**

|         |                                |
|---------|--------------------------------|
| BIOL230 | Botany or BIOL240 Zoology (4)  |
| CHEM241 | Principles of Chemistry II (4) |
| ENGL102 | Research Writing (3)           |
| GEOS101 | Dynamic Earth (3)              |
|         | TOTAL 14 sem. hrs.             |

**Third Semester**

|         |  |
|---------|--|
| 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)                       |
|         | TOTAL 14-15 sem. hrs.                          |

**Fourth Semester**

|         |                            |
|---------|----------------------------|
| BIOL300 | Genetics (4)               |
| ENGL305 | Technical Writing (3)      |
| STAT260 | Elements of Statistics (3) |
|         | Core (3)                   |
|         | Core (3)                   |
|         | TOTAL 17 sem. hrs.         |

**Fifth Semester**

|         |                        |
|---------|------------------------|
| BIOL400 | Ecology (4)            |
| GEOG340 | Economic Geography (3) |
| PHYS201 | Physics I (4)          |
|         | Core (3)               |
|         | TOTAL 14 sem. hrs.     |

**Sixth Semester**

|         |                           |              |
|---------|---------------------------|--------------|
| BIOL    | Biology Elective (4)*     |              |
| GEOS375 | 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>                          | 15-16 sem. hrs. |

**Eighth Semester**

|      |                           |              |
|------|---------------------------|--------------|
| BIOL | Biology Electives (6-8)*  |              |
|      | Capstone Experience (0-2) |              |
|      | 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.

**Note: at least one must be a designated research intensive course:** BIOL308, BIOL342, BIOL403, BIOL409, BIOL457, BIOL472, BIOL482, and BIOL643 (BIOL395 and BIOL490 If specifically approved as research intensive).

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**BACHELOR OF SCIENCE-ENVIRONMENTAL BIOLOGY-WILDLIFE BIOLOGY**

This curriculum is intended to provide the student with a specialized study of wildlife biology with a broad-based curriculum at the undergraduate level. This curriculum will also provide the academic requirements for students to apply to the Wildlife Society for certification as an Associate Wildlife Biologist ([www.wildlife.org/certification/program](http://www.wildlife.org/certification/program)). Students will learn about the management and conservation of wildlife and be prepared for work or graduate school in the wildlife field.

|    |  |              |
|----|--|--------------|
| I. | General Education Requirements   | 43 sem. hrs. |
| A. | Skills   | 12 sem. hrs. |
|    | ENGL101 College Writing (3)  |              |
|    | ENGL102 Research Writing (3)   |              |
|    | STAT260 Elements of Statistics (3)                                     |              |
|    | GEOG413 Geog Info Systems* (3)   |              |
| B. | Core   | 21 sem. hrs. |
|    | Artistic Expression (3)  |              |
|    | World Civilizations (3)  |              |
|    | American Civilizations -GEOG 245 Conservation of Natural Resources (3) |              |
|    | Human Behavior (3)   |              |
|    | Cultural Diversity and Social Pluralism (3)                            |              |
|    | Ethics –GEOG145 Environmental Issues (3)                               |              |
|    | Natural Science-GEOS101 Dynamic Earth (3)                              |              |
| C. | Distribution   | 10 sem. hrs. |
|    | Humanities and Fine Arts-COMM107 Public Speaking (3)                   |              |
|    | Social and Behavioral Sciences- GEOG305 Basic Cartography (3)          |              |
|    | Sciences and Mathematics CHEM 241 Principles of Chemistry (4)          |              |

|      |   |                 |
|------|---|-----------------|
| II.  | Required Biology Courses  | 29 sem. hrs.    |
|      | BIOL150 Principles of Biology (4)   |                 |
|      | BIOL230 Botany (4)  |                 |
|      | BIOL240 Zoology (4)   |                 |
|      | BIOL300 Genetics (4)  |                 |
|      | BIOL400 Ecology (4)   |                 |
|      | BIOL437 Conservation Biology (3)  |                 |
|      | PYMA 422 Wildlife Management (3) OR   |                 |
|      | PYMA462 Field Tech in Ecology (3)   |                 |
|      | BIOL521 Plant Taxonomy (3) OR   |                 |
|      | PYMA433 Field Botany (3)  |                 |
| III. | Capstone Experience   | 0-2 sem. hrs.   |
|      | Students must submit a portfolio and do <b>ONE</b> of the following: document PRESENTATION of their research at a scientific meeting, do an INTERNSHIP specifically approved as a capstone or take BIOL495 Senior Capstone Seminar. |                 |
| IV.  | Biology Electives   | 7-9 sem. hrs.** |
|      | One course selected from the following: BIOL442, 643 or PYMA451   |                 |
|      | One course selected from the following: BIOL342, 442,482,643, or PYMA 451   |                 |
|      | Remaining elective must be selected from: BIOL302, 308, 309, 314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490) and PYMA courses  |                 |
| V.   | Required Supporting Courses*  | 22 sem. hrs.    |
|      | MATH211 Analytical Geometry and Calculus I (4)  |                 |
|      | CHEM240 Principles of Chemistry I (4)   |                 |
|      | PHYS201 Physics I (4)   |                 |
|      | PHYS202 Physics II (4)  |                 |
|      | ENGL305 Technical Writing (3)   |                 |
|      | GEOS375 Environmental Geology (3)   |                 |
| VI.  | Free Electives  | 17 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.

\*

Fulfills computer competency requirement

\*\*Only 7 credits if Capstone Experience taken for 2 credits

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**BACHELOR OF SCIENCE – ENVIRONMENTAL BIOLOGY-WILDLIFE 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> 14-15 sem. hrs.  |

**Second Semester**

|         |                                |
|---------|--------------------------------|
| BIOL230 | Botany or BIOL240 Zoology (4)  |
| CHEM241 | Principles of Chemistry II (4) |
| ENGL102 | Research Writing (3)           |
| GEOS101 | Dynamic Earth (3)              |
|         | <b>TOTAL</b> 14 sem. hrs.      |

**Third Semester**

|         |   |
|---------|---|
| BIOL240 | Zoology (4)   |
| MATH211 | Analytical Geometry and Calculus I. if already taken Free Elective (3 or 4) |
| GEOG305 | Basic Cartography (3)   |
| GEOG145 | Environmental Issues (3)  |
|         | Free Elective (3)   |
|         | <b>TOTAL</b> 17 sem. hrs.   |

**Fourth Semester**

|         |                            |                     |
|---------|----------------------------|---------------------|
| BIOL300 | Genetics (4)               |                     |
| GEOG413 | Geog. Info Systems (3)     |                     |
| ENGL305 | Technical Writing (3)      |                     |
| STAT260 | Elements of Statistics (3) |                     |
|         | Core (3)                   |                     |
|         | <b>TOTAL</b>               | <b>16 sem. hrs.</b> |

**Fifth Semester**

|         |                          |                     |
|---------|--------------------------|---------------------|
| BIOL437 | Conservation Biology (3) |                     |
| PHYS201 | Physics I (4)            |                     |
| BIOL521 | Plant Taxonomy (3)       |                     |
|         | Core (3)                 |                     |
|         | Free Elective (3)        |                     |
|         | <b>TOTAL</b>             | <b>16 sem. hrs.</b> |

**Sixth Semester**

|         |                           |                     |
|---------|---------------------------|---------------------|
| GEOS375 | Environmental Geology (3) |                     |
| PHYS202 | Physics II (4)            |                     |
| COMM107 | Public Speaking (3)       |                     |
|         | Core (3)                  |                     |
|         | Core (3)                  |                     |
|         | <b>TOTAL</b>              | <b>16 sem. hrs.</b> |

**Summer Session**

|         |                            |                   |
|---------|----------------------------|-------------------|
| PYMA422 | Wildlife Management (3) OR |                   |
| PYMA462 | Field Tech in Ecology (3)  |                   |
|         | <b>TOTAL</b>               | <b>3 sem hrs.</b> |

**Seventh Semester**

|         |                                       |                     |
|---------|---------------------------------------|---------------------|
| BIOL400 | Ecology (4)                           |                     |
| BIOL    | Biology Electives (3)*                |                     |
| GEOG245 | Conservation of Natural Resources (3) |                     |
|         | Free Electives (6)                    |                     |
|         | <b>TOTAL</b>                          | <b>16 sem. hrs.</b> |

**Eighth Semester**

|      |                           |                       |
|------|---------------------------|-----------------------|
| BIOL | Biology Electives (4-6)*  |                       |
|      | Capstone Experience (0-2) |                       |
|      | Free Electives (5)        |                       |
|      | <b>TOTAL</b>              | <b>9-13 sem. hrs.</b> |

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 medical technology laboratory practices.
- have completed a one-year program at an accredited Medical Technology school.
- have the knowledge and skills necessary to pass the board registry examinations

## Bachelor of Science Degree

### Medical Technology

|  |   |                                       |
|--|---|---------------------------------------|
| I. General Education Requirements        |   | 44 sem. hrs.                          |
|  | STAT260 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.                          |
|  | <b>Total</b>  | <b>120 sem. hrs.</b>                  |

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 Sciences  
 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 | Research Writing (3)                |
|         | Free Elective (3)                   |
|         | TOTAL 14 sem. hrs.                  |

### Third Semester

|         |                            |
|---------|----------------------------|
| STAT260 | 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<br>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)        |
|         | TOTAL 16 sem. hrs.       |

### Sixth Semester

|         |                           |
|---------|---------------------------|
| BIOL318 | Clinical Microbiology (4) |
| BIOL562 | Basic Immunology (1)      |
| CHEM310 | Quantitative Analysis (4) |
|         | Core (3)                  |
|         | Distribution (3)          |
|         | TOTAL 15 sem. hrs.        |

### Seventh Semester

|         |                             |
|---------|-----------------------------|
| MEDT402 | Clinical Chemistry (7)      |
| MEDT405 | Bacteriology (6)            |
| MEDT411 | Serology and Immunology (4) |
|         | TOTAL 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)           |
|         | TOTAL 14 sem. hrs.             |

\*Note: Final year is in hospital setting.

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:** N. Gabriel Armatas, Qun Gu, Gerald J. Hoffman, Naod Kebede, Tracy Olin, Janet S. Rogers, 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; and the Bachelor of Science degree, Chemistry/Forensic Science. It also offers a minor in chemistry, supervises students in the pre-pharmacy transfer program, and cooperates with the Department of Middle and Secondary Education, and Educational Leadership 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 and any necessary civil service test. 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 pre-pharmacy program provides the first two years of study toward a Doctor of Pharmacy (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 first pass the chemistry placement exam. Students wishing to take CHEM 240 Principles of Chemistry I must also qualify to take MATH 105 College Algebra, or a higher math course. 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 the 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 or Duquesne. 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 A.S. 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) |
|         | TOTAL 18 sem. hrs.             |

#### Second Semester

|         |   |
|---------|---|
| ENGL102 | Research Writing (3)  |
| MATH211 | Analytical Geometry and Calculus I (4)  |
| CHEM241 | Principles of Chemistry II (4)  |
| PHYS201 | Physics I (4)   |
| CSCI104 | Essentials of Computing (3) or<br>Discipline-specific Computer<br>Competency Course |
|         | TOTAL 18 sem. hrs.  |

#### Third Semester

|         |   |
|---------|---|
| CHEM330 | Organic Chemistry I (4)   |
| BIOL300 | Genetics (4)  |
| COMM107 | Public Speaking (3)   |
| ECON225 | Principles of Macro-Economics (3)<br>Core 2, 3. Or 6 course (3) |
|         | TOTAL 18 sem. hrs.  |

#### Fourth Semester

|         |                                       |
|---------|---------------------------------------|
| CHEM331 | Organic Chemistry II (4)              |
| BIOL305 | Cell and Molecular Biology (4)        |
| STAT260 | Elements of Statistics (3)            |
|         | Core 1 – Arts & Humanities course (3) |
| SOC100  | Principles of Sociology – Core 5 (3)  |
|         | TOTAL 16 sem. hrs.                    |

## Bachelor of Science Degree

### Chemistry

Graduates of the B.S. 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)                                 |
|      | CHEM331                        | Organic Chemistry II (4)                                |
|      | CHEM341                        | Biochemistry (4)  |
|      | CHEM381                        | Searching Scientific Literature (1)                     |
|      | CHEM420                        | Inorganic Chemistry (3)                                 |
|      | CHEM421                        | Advanced Organic Chemistry (3)                          |
|      | CHEM450                        | Instrumental Analysis (5)                               |
|      | CHEM481                        | Seminar (1)   |
|      | CHEM490                        | Independent Study (2)                                   |
|      | CHEM530                        | Physical Chemistry I (4)                                |
|      | CHEM531                        | Physical Chemistry II (4)                               |
|      | CHEM533                        | Polymer Chemistry (3)                                   |
|      | CHEM535                        | Advanced Chemistry Laboratory I (1)                     |
| III. | Required Supporting Courses    | 16-17 sem. hrs.   |
|      | BIOL150                        | Principles of Biology (4)**                             |
|      | MATH211                        | Analytical Geometry and Calculus I (3)**                |
|      | MATH212                        | Analytical Geometry and Calculus II (4)                 |
|      | STAT260                        | Elements of Statistics (3)                              |
|      | MATH311                        | Analytical - Geometry and<br>Calculus III (4) <b>or</b> |
|      | MATH317                        | Introduction to Differential<br>Equations (3) <b>or</b> |
|      | CSCI130                        | Principles of Programming I (3)                         |
|      | FREN101                        | First Course in French (3)** <b>or</b>                  |
|      | GERM101                        | First Course in German** <b>or</b>                      |
|      | RUSS101                        | First Course in Russian**                               |
|      | PHYS320                        | University Physics I (4)**                              |
|      | PHYS321                        | University Physics II (4)                               |
|      | PHYS322                        | Physical Measurements Laboratory I (1)                  |
|      | PHYS323                        | Physical Measurements Laboratory II (1)                 |
| IV.  | Electives                      | 8-10 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, 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)                               |
|         | <b>TOTAL 17 sem. hrs.</b>              |

**Second Semester**

|         |   |
|---------|---|
| ENGL102 | Research Writing (3)                    |
| MATH212 | Analytical Geometry and Calculus II (4) |
| CHEM241 | Principles Chemistry II (4)             |
| PHYS320 | University Physics I (4)                |
| PHYS322 | Physical Measurements Laboratory I (1)  |
|         | <b>TOTAL 16 sem. hrs.</b>               |

**Third Semester**

|   |   |
|---|---|
| PHYS321                                   | University Physics II (4)               |
| PHYS323                                   | Physical Measurements Laboratory II (1) |
| CHEM330                                   | Organic Chemistry I (4)                 |
| STAT260                                   | Elements of Statistics (3)              |
| FREN101 (3) or GERM101 (3) or RUSS101 (3) |   |
|   | <b>TOTAL 15 sem. hrs.</b>               |

**Fourth Semester**

|  |                              |
|--|------------------------------|
| CHEM331                                    | Organic Chemistry II (4)     |
| CHEM280                                    | Laboratory Safety (1)        |
| BIOL150                                    | Principles of Biology (3)    |
| MATH213 (4) or MATH317 (3) or CSC11303 (3) | Core (3)                     |
|  | <b>TOTAL 14-15 sem. hrs.</b> |

**Fifth Semester**

|         |                                     |
|---------|-------------------------------------|
| CHEM310 | Quantitative Analysis (4)           |
| CHEM341 | Biochemistry (4)                    |
| CHEM381 | Searching Scientific Literature (1) |
| CHEM530 | Physical Chemistry I (4)            |
|         | <b>TOTAL 13 sem. hrs.</b>           |

**Sixth Semester**

|         |                           |
|---------|---------------------------|
| CHEM450 | Instrumental Analysis (5) |
| CHEM531 | Physical Chemistry II (4) |
| CHEM533 | Polymer Chemistry (3)     |
|         | Free Elective (3)         |
|         | Distribution (3)          |
|         | <b>TOTAL 16 sem. hrs.</b> |

**Seventh Semester**

|         |                            |
|---------|----------------------------|
| CHEM420 | Inorganic Chemistry (3)    |
| CHEM535 | Advanced Chemistry Lab (1) |
|         | Core (3)                   |
|         | Core (3)                   |
|         | Elective (3)               |
|         | <b>TOTAL 16 sem. hrs.</b>  |

**Eighth Semester**

|         |                                |
|---------|--------------------------------|
| CHEM421 | Advanced Organic Chemistry (3) |
| CHEM481 | Seminar (1)                    |
| CHEM490 | Independent Study (2)          |
|         | Elective (3-4)                 |
|         | Distribution (3)               |
|         | <b>TOTAL 15 sem. hrs.</b>      |

\*Some required courses are only offered every other year, so students should meet with their advisors to discuss any deviations from the recommended sequence

## 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 or for admission into graduate programs.

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 B.S. 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)              |
|                                    | CRIM265 Courts and Criminal Law (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)**             |
| STAT260                        | 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)** <b>or</b> |
| HIST379                        | U.S. Police History (3)* <b>or</b>                    |
| SOC320                         | Sociology of Deviance (3)**                           |
| VI. Electives                  | 4 sem. hr.  |
| TOTAL                          | 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, 241, 310, 330, 331, 341, 450, and 460.

\*\*Courses required by the degree that satisfy General Education requirements.

Students will be required to maintain a 2.5 QPA in required coursework.

### 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  | Research Writing (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) |
| STAT260 | 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)                            |
| CRIM340 | <b>Choose one of the following electives:</b>       |
| CRIM443 | Criminal Investigation (3) <b>or</b>                |
| CRIM265 | Arson Investigation (3) <b>or</b>                   |
| ANTH385 | Courts and Criminal Law (3)                         |
| ANTH385 | <b>Choose one of the following:</b>                 |
| HIST379 | Introduction to Physical Anthropology (3) <b>or</b> |
| SOC320  | 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 1 (3)    |
|         | Elective (4)          |
| TOTAL   | 15 sem. hrs.          |

\*Some required courses are only offered every other year, so students should meet with their advisors to discuss any deviations from the recommended sequence.

## Bachelor of Science Degree

### Chemistry/Biochemistry

Graduates of the B.S. 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.                             |
| <b>TOTAL</b>                     | <b>120 sem. hrs.</b>                     |

\*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 and 530.

\*\*Courses required by the degree that satisfy General Education requirements.

### BACHELOR OF SCIENCE – CHEMISTRY/BIOCHEMISTRY (Suggested Eight-Semester Sequence)

|                         |  |
|-------------------------|--|
| <b>First Semester</b>   |  |
| ENGL101                 | College Writing Skills (3)                               |
| MATH211                 | Analytical Geometry and Calculus I (4)                   |
| BIOL150                 | Principles of Biology (4)                                |
| CHEM240                 | Principles of Chemistry I (4)<br>Core (3)                |
| <b>TOTAL</b>            | <b>18 sem. hrs.</b>                                      |
| <b>Second Semester</b>  |  |
| ENGL102                 | Research Writing (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</b>            | <b>16 sem. hrs.</b>                                      |
| <b>Third Semester</b>   |  |
| CHEM330                 | Organic Chemistry I (4)                                  |
| CHEM310                 | Quantitative Analysis (4)                                |
| PHYS321                 | University Physics II (4)                                |
| PHYS323                 | Physical Measurements Laboratory II (1)<br>Core (3)      |
| <b>TOTAL</b>            | <b>16 sem. hrs.</b>                                      |
| <b>Fourth Semester</b>  |  |
| CHEM331                 | Organic Chemistry II (4)                                 |
| CHEM280                 | Laboratory Safety (1)<br>Core (3)<br>Free Elective (6)   |
| <b>TOTAL</b>            | <b>14 sem. hrs.</b>                                      |
| <b>Fifth Semester</b>   |  |
| BIOL300                 | Genetics (4)   |
| CHEM341                 | Biochemistry (4)<br>Core (3)<br>Free Elective (3)        |
| <b>TOTAL</b>            | <b>14 sem. hrs.</b>                                      |
| <b>Sixth Semester</b>   |  |
| BIOL305                 | Cell and Molecular Biology (4)                           |
| CHEM450                 | Instrumental Analysis (5)                                |
| CHEM490                 | Indep. Study Chemistry (1)                               |
| CHEM541                 | Advanced Biochemistry (4)                                |
| <b>TOTAL</b>            | <b>14 sem. hrs.</b>                                      |
| <b>Seventh Semester</b> |  |
| CHEM530                 | Physical Chemistry I (4)<br>Core (3)<br>Distribution (3) |
| <b>TOTAL</b>            | <b>15 sem. hrs.</b>                                      |

### Eighth Semester

|              |   |
|--------------|---|
| CHEM531      | Physical Chemistry II (4)   |
| BIOL409      | Molecular Biology and Genomics (4)<br>Distribution (3)<br>Free Elective (4) |
| <b>TOTAL</b> | <b>15 sem. hrs.</b>   |

\*Some required courses are only offered every other year, so students should meet with their advisors to discuss any deviations from the recommended sequence.

## Bachelor of Science Degree

### Chemistry/Natural Products Chemistry

BS Chemistry-Natural Products Chemistry is a new tack under the BS-Chemistry program. It is a program at the interface of Chemistry and Biology providing more marketable skills in both biological and chemical sciences. Supporting courses in business and marketing will provide a well-rounded education to students.

Graduates of the B.S. in Chemistry/Natural Products 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 | 49 sem. hrs.                     |
| II. Specialization in Chemistry*  | 35 sem. hrs.                     |
| CHEM240                           | Principles of Chemistry I (4)    |
| CHEM241                           | Principles of Chemistry II (4)** |
| CHEM/BIOL151                      | Seminar Herbs & Spices (1)       |
| CHEM280                           | Laboratory Safety (1)            |
| CHEM310                           | Quantitative Analysis (4)        |
| CHEM330                           | Organic Chemistry I (4)          |
| CHEM331                           | Organic Chemistry II (4)         |
| CHEM341                           | Biochemistry (4)                 |
| CHEM381                           | Science Literature (1)           |
| CHEM351                           | Natural Product Chemistry (3)    |
| CHEM352                           | Toxicology (3)                   |
| CHEM451                           | Iso. Char. Nat. Prod. (2)        |
| CHEM530                           | Physical Chemistry I (4)         |

|                                  |                                    |
|----------------------------------|------------------------------------|
| III. Required Supporting Courses | 24 sem. hrs.                       |
| BIOL150                          | Principles of Biology (4)**        |
| BIOL155                          | Principles of Biology II (4)       |
| BIOL230                          | Botany (4)                         |
| BIOL308/318                      | Microbiology/Clinical (4)          |
| BIOL320                          | Plant Physiology (4)               |
| MATH211                          | Analytical Geom & Calc I (4)**     |
| MATH212                          | Analytical Geom & Calc II (4)**    |
| STAT260                          | Statistics (3)**                   |
| PHYS201                          | Physics I (4)                      |
| PHYS202                          | Physics II (4)                     |
| ECON220                          | Principles of Microeconomics (3)** |
| IV. Free Electives               | 12 sem. hrs.                       |
| <b>TOTAL</b>                     | <b>120 sem. hrs.</b>               |

\*Students enrolled in the bachelor of science program must attain a minimum cumulative grade point average of 2.00 or higher in chemistry courses to be eligible for graduation. A minimum grade of "C" is required in CHEM240.

\*\*Courses required by the degree that satisfy General Education requirements.

## BACHELOR OF SCIENCE – CHEMISTRY/NATURAL PRODUCTS CHEMISTRY (Suggested Eight-Semester Sequence)

### First Semester

|         |                               |              |
|---------|-------------------------------|--------------|
| CHEM240 | Principles of Chemistry I (4) |              |
| BIOL150 | Principles of Biology (4)     |              |
| ENGL101 | College Writing Skills (3)    |              |
| CORE 1  | Artistic Expression (3)       |              |
|         | TOTAL                         | 14 sem. hrs. |

### Second Semester

|              |                                |              |
|--------------|--------------------------------|--------------|
| CHEM241      | Principles of Chemistry II (4) |              |
| CHEM/BIOL151 | Seminar Herbs & Spices (1)     |              |
| BIOL155      | Principles of Biology II (4)   |              |
| STAT260      | Elements of Statistics (3)     |              |
| ENGL102      | Research Writing (3)           |              |
|              | TOTAL                          | 15 sem. hrs. |

### Third Semester

|         |  |             |
|---------|--|-------------|
| CHEM330 | Organic Chemistry I (4)                |             |
| CHEM310 | Quantitative Analysis (4)              |             |
| MATH211 | Analytical Geometry and Calculus I (4) |             |
|         | Elective (3)                           |             |
|         | TOTAL                                  | 15sem. hrs. |

### Fourth Semester

|         |   |              |
|---------|---|--------------|
| CHEM331 | Organic Chemistry II (4)                |              |
| CHEM280 | Laboratory Safety (1)                   |              |
| MATH212 | Analytical Geometry and Calculus II (4) |              |
| ECON220 | Principles of Micro Economics (3)       |              |
| CORE 6  | Ethics (3)                              |              |
|         | TOTAL                                   | 15 sem. hrs. |

### Fifth Semester

|         |                           |              |
|---------|---------------------------|--------------|
| CHEM341 | Biochemistry (4)          |              |
| CHEM381 | Scientific Literature (1) |              |
| PHYS201 | Physics I (4)             |              |
| BIOL230 | Botany (4)                |              |
| CORE 2  | World Civilization (3)    |              |
|         | TOTAL                     | 16 sem. hrs. |

### Sixth Semester

|             |                                |              |
|-------------|--------------------------------|--------------|
| CHEM351     | Natural Products Chemistry (4) |              |
| PHYS202     | Physics II (4)                 |              |
| BIOL308/318 | Microbiology (4)               |              |
| BIOL320     | Plant Physiology (4)           |              |
|             | TOTAL                          | 15 sem. hrs. |

### Seventh Semester

|         |                           |              |
|---------|---------------------------|--------------|
| CHEM352 | Toxicology (3)            |              |
| CHEM530 | Physical Chemistry I (4)  |              |
| CORE3   | American Civilization (3) |              |
| CORE4   | Human Behavior (3)        |              |
|         | Elective (3)              |              |
|         | TOTAL                     | 16 sem. hrs. |

### Eighth Semester

|         |                              |              |
|---------|------------------------------|--------------|
| CHEM451 | Isol. Charac Nat Prod (2)    |              |
| CORE5   | Cultural Diversity (3)       |              |
| DIST1   | Humanities and Fine Arts (3) |              |
|         | Elective (3)                 |              |
|         | Elective (3)                 |              |
|         | TOTAL                        | 14 sem. hrs. |

## Bachelor of Science Degree

### Fermentation Science

The Bachelor of Science in Fermentation Science is a chemistry program designed to offer students a firm understanding of food science from a biochemical perspective. The program emphasizes practical methods for the production of fermented products including but not limited to: beer, wine, fermented foods, and chemicals produced through the fermentation process. Graduating students will have experience producing and assessing the quality of fermented products, and practical experience provided through an optional internship with a local business.

Graduates of the B.S. Fermentation Science 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 fermentation science and industry;
- 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*  | 40 sem. hrs.                                   |
|                                   | CHEM115 Chemistry in the Kitchen (3)           |
|                                   | CHEM216 Intro to Fermented Foods Chem (3)      |
|                                   | CHEM240 Principles of Chemistry I (4)          |
|                                   | CHEM241 Principles of Chemistry II (4)**       |
|                                   | CHEM280 Laboratory Safety (1)                  |
|                                   | CHEM320 Fermentation Analysis (4)              |
|                                   | CHEM330 Organic Chemistry I (4)                |
|                                   | CHEM331 Organic Chemistry II (4)               |
|                                   | CHEM341 Biochemistry (4)                       |
|                                   | CHEM450 Instrumental Analysis (5)              |
|                                   | CHEM530 Physical Chemistry I (4)               |
|                                   | CHEM425 Fermentation Chemistry (4)             |
| III. Required Supporting Courses  | 19 sem. hrs.                                   |
|                                   | BIOL150 Principles of Biology (4)**            |
|                                   | BIOL305 Cell and Molecular Biology (4)**       |
|                                   | BIOL308 Microbiology (4)                       |
|                                   | BIOL330 Fermentation Microbiology (3)          |
|                                   | MATH211 Analytical Geometry & Calculus I (4)** |
|                                   | MATH212 Analytical Geometry & Calculus II (4)  |
|                                   | PHYS201 Physics I (4)**                        |
|                                   | PHYS202 Physics II (4)**                       |
|                                   | ECON220 Principles of Microeconomics (3)**     |
| IV. Free Electives                | 15 sem. hrs.                                   |
| V. TOTAL                          | 120 sem. hrs.                                  |

\*Students enrolled in the B.S. Fermentation 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, 320, 330, 331, 341, 425, and 530.

\*\*Courses required by the degree that satisfy General Education requirements.

**BACHELOR OF SCIENCE – FERMENTATION SCIENCE**  
**(Suggested Eight-Semester Sequence)**
**First Semester**

|         |                                      |                     |
|---------|--------------------------------------|---------------------|
| CHEM115 | Chemistry in the Kitchen (3)         |                     |
| CHEM240 | Principles of Chemistry I (4)        |                     |
| BIOL150 | Principles of Biology (4)            |                     |
| MATH211 | Analytical Geometry & Calculus I (4) |                     |
|         | Core (3)                             |                     |
|         | <b>TOTAL</b>                         | <b>18 sem. hrs.</b> |

**Second Semester**

|         |                                       |                     |
|---------|---------------------------------------|---------------------|
| CHEM241 | Principles of Chemistry II (4)        |                     |
| CHEM216 | Intro to Fermented Foods Chem (3)     |                     |
| MATH212 | Analytical Geometry & Calculus II (4) |                     |
| ENGL101 | College Writing Skills (3)            |                     |
|         | Core (3)                              |                     |
|         | <b>TOTAL</b>                          | <b>17 sem. hrs.</b> |

**Third Semester**

|         |                                |                     |
|---------|--------------------------------|---------------------|
| CHEM330 | Organic Chemistry I (4)        |                     |
| BIOL305 | Cell and Molecular Biology (4) |                     |
|         | Core (3)                       |                     |
| ENGL102 | Writing and Research (3)       |                     |
|         | <b>TOTAL</b>                   | <b>14 sem. hrs.</b> |

**Fourth Semester**

|         |                                  |                     |
|---------|----------------------------------|---------------------|
| CHEM331 | Organic Chemistry II (4)         |                     |
| CHEM280 | Laboratory Safety (1)            |                     |
| CHEM320 | Fermentation Analysis (4)        |                     |
| ECON220 | Principles of Microeconomics (3) |                     |
|         | Core (3)                         |                     |
|         | <b>TOTAL</b>                     | <b>15 sem. hrs.</b> |

**Fifth Semester**

|         |                  |                     |
|---------|------------------|---------------------|
| CHEM341 | Biochemistry (4) |                     |
| PHYS201 | Physics I (4)    |                     |
| BIOL308 | Microbiology (4) |                     |
|         | Elective (3)     |                     |
|         | <b>TOTAL</b>     | <b>15 sem. hrs.</b> |

**Sixth Semester**

|         |                               |                     |
|---------|-------------------------------|---------------------|
| CHEM450 | Instrumental Analysis (5)     |                     |
| BIOL330 | Fermentation Microbiology (3) |                     |
| PHYS202 | Physics II (4)                |                     |
|         | Core (3)                      |                     |
|         | <b>TOTAL</b>                  | <b>15 sem. hrs.</b> |

**Seventh Semester**

|         |                          |                     |
|---------|--------------------------|---------------------|
| CHEM530 | Physical Chemistry I (4) |                     |
|         | Core (3)                 |                     |
|         | Distribution (3)         |                     |
|         | Elective (3)             |                     |
|         | <b>TOTAL</b>             | <b>13 sem. hrs.</b> |

**Eight Semester**

|         |                            |                     |
|---------|----------------------------|---------------------|
| CHEM425 | Fermentation Chemistry (4) |                     |
|         | Elective (3)               |                     |
|         | Elective (3)               |                     |
|         | Elective (3)               |                     |
|         | <b>TOTAL</b>               | <b>13 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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**Communication Sciences and Disorders Department**


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**FACULTY:** Craig Coleman, Kate Krival, , Amitkumar Tayade, Mary Weidner

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 from a CAA-accredited program is needed for national certification and state licensure in all service delivery settings and PDE certification is needed to work in Pennsylvania schools.

Students are strongly encouraged to become active members of The Speech and Hearing Club, which is 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 CSD courses *and* C 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 the nature of the work of audiologists and speech-language pathologists and the requirements to become one
- 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 also available.

**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.         |
| CSD125 Psych of Comm (3)  |                      |
| CSD300 Communication Across the Lifespan (3)  |                      |
| CSD 355 Anat and Phys of SLP Mech (3)   |                      |
| CSD 350 Speech and Hearing Science (3)  |                      |
| CSD 375 Acoustical Phonetics (3)  |                      |
| B. Introduction to Communication Disorders  | 9 sem. hrs.          |
| CSD 210 Survey Comm Dis Children (3)  |                      |
| CSD 220 Survey Comm Dis Adults (3)  |                      |
| CSD 230 Intro to Audiology (3)  |                      |
| C. Professional Foundations   | 12 sem. hrs.         |
| CSD320 Managing Artic/Phono Dis (3)   |                      |
| CSD 340 Adv Language Dev and Analysis (3)   |                      |
| CSD420 Observe Norm and Dis Comm (3)  |                      |
| CSD515 Audiologic Rehab (3)   |                      |
| III. Speech and Hearing Electives   | 9 sem. hrs.          |
| CSD500 Neuroanatomy for the SLP (3)   |                      |
| CSD520 Comm Dis Across Cultures (3)   |                      |
| CSD530 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, one course in physical science, and one course in statistics. 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 CSD courses.  
 \*\*Math and English skills requirements must be completed within the first 45 credits.

To be recommended for Pennsylvania Educational Specialist Certification in School Speech & Language Pathologist PK-12, 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)  |
| CSD125  | Psychology of Communication (3)   |
| PSYC101 | Introduction to Psychology (3)    |
|         | General Education Core Course (3) |
|         | <b>TOTAL 15 sem. hrs.</b>         |

**Second Semester**

|         |   |
|---------|---|
| ENGL102 | Research Writing (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**

|        |   |
|--------|---|
| CSD210 | Survey Comm. Dis. Children (3)            |
|        | General Education Distribution Course (3) |
|        | General Education Core Course (3)         |
|        | General Education Core Course (3)         |
|        | General Education Core Course (3)         |
|        | <b>TOTAL 15 sem. hrs.</b>                 |

**Fourth Semester**

|        |                               |
|--------|-------------------------------|
| CSD220 | Survey Comm. Dis. Adults (3)  |
| CSD230 | Introduction to Audiology (3) |
|        | Free Electives (9)            |
|        | <b>TOTAL 15 sem. hrs.</b>     |

**Fifth Semester**

|        |   |
|--------|---|
| CSD300 | Communication Develop Across Lifespan (3) |
| CSD355 | Anatomy & Physiology S & H (3)            |
| CSD375 | Acoustical Phonetics (3)                  |
|        | Free Elective (3)                         |
|        | Free Elective (3)                         |
|        | <b>TOTAL 15 sem. hrs.</b>                 |

**Sixth Semester**

|        |  |
|--------|--|
| CSD320 | Found of Artic/Phono Dis (3)               |
| CSD340 | Advanced Language Development/Analysis (3) |
| CSD350 | Speech & Hearing Science (3)               |
|        | Free Elective (3)                          |
|        | Free Elective (3)                          |
|        | <b>TOTAL 15 sem. hrs.</b>                  |

**Seventh Semester**

|  |  |
|--|--|
|  | Choose two from the following classes:<br>CSD500, CSD520 (6) |
|  | Free Elective (3)  |
|  | Free Elective (3)  |
|  | Free Elective (3)  |
|  | <b>TOTAL 15 sem. hrs.</b>                                    |

**Eighth Semester**

|        |                                 |
|--------|---------------------------------|
| CSD420 | Observe Norm. and Dis, Comm (3) |
| CSD515 | Audiologic Rehabilitation (3)   |
| CSD530 | (3)                             |
|        | Free Elective (3)               |
|        | Free Elective (3)               |
|        | <b>TOTAL 15 sem. hrs.</b>       |

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## Geosciences Department

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**FACULTY:** Richard Deal, Karen Eisenhart, Baher Ghosheh, , David Hurd, Wook Lee, Kerry Moyer, Laurie Parendes, Joseph Reese, Eric Straffin, Dale Tshudy, Brian Zimmerman

The Geosciences Department offers three major degree programs: Geology, Environmental Studies, and Geographic Information Science. “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 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 include cartography, regional studies, environmental studies, and urban and regional planning of human communities. Our combined Geology and Geography focus enables us to address a broad range of student interests. Graduates of our programs will be prepared to enter traditional Geology, Environmental Studies, or Geographical Information Science fields, but will also be prepared for emerging employment opportunities associated with earth sciences, natural resources monitoring and management, environmental protection, and/or planning careers. We strongly encourage all students completing major programs in the Geosciences Department to become proficient in computer skills, particularly software applications used in GIS (Geographic Information Systems) as well as other applications unique to the disciplines.

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., 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 programs for the community.

### Geographic Information Science

The Geographic Information Science program is designed to prepare students for a variety of careers in the rapidly expanding GIS field. The program emphasizes practical application of GIS technology. Graduates of the program will find employment applying GIS to solving real-world problems in business, environmental science, public utilities, regional planning, and other industries.

### 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.

### Environmental Studies Program

The BA in Environmental Studies is a Geography program that emphasizes an interdisciplinary approach to current environmental issues. 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 environmental topics. Because of this, Environmental Studies pairs very well with many other fields of study from the physical sciences to the social sciences to the humanities to computer sciences. Environmental Studies 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.

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## Bachelor of Arts Degree

### Environmental Studies

The BA in Environmental Studies is a Geography program that emphasizes an interdisciplinary approach to current environmental issues. It allows students to choose from a wide range of electives, with coursework in geography, geology, biology and geographic information systems.

Students will be exposed to a natural science background sufficient to make them conversant on the fundamental scientific issues involved in contemporary environmental problems. Social science skills useful to planning and understanding human interactions with the environment are also emphasized. Students also gain valuable technical skills in geospatial technologies, which are highly desired by prospective employers.

All students completing a Bachelor of Arts degree in Environmental Studies must fulfill the requirements of the General Education Curriculum, and in addition complete five required courses that provide a 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 Environmental Studies 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 a variety of environmental fields.
4. develop capacity for integration and synthesis with respect to geographical and environmental opportunities and problems.
5. provide a liberal arts education that will make the student a better citizen.

Students enrolled in the Environmental Studies program further refine their course of study in consultation with the department advisor by selecting 35 additional credit hours of free electives. This provides flexibility for students to pursue additional courses related to his/her career interests, thus creating an individualized degree program. Environmental Studies majors are strongly encouraged to concentrate elective courses in an appropriate minor, such as in geology, biology, social sciences, humanities, or computer sciences.

**BA GEOGRAPHY**

|     |  |              |
|-----|--|--------------|
| I.  | General Education Requirements                                 | 42 sem. hrs. |
| II. | Required Geography Foundation Courses                          | 12 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)**                        |              |
|     | (fulfilled by Computer Skills requirement)                     |              |
| IV. | Environmental Studies Courses                                  | 30 sem. hrs. |
|     | GEOG145 Environmental Issues (3)                               |              |
|     | GEOG245 Conservation of Nat. Res. (3)                          |              |
|     | GEOG425 Geography of Water Res. (3)                            |              |
|     | GEOG545 Environ. Planning (3)                                  |              |
|     | Select One of the following courses:                           |              |
|     | GEOG 390 Geog. Internship                                      |              |
|     | (3 hrs. in an approved topic)                                  |              |
|     | GEOG515 Biogeography (3)                                       |              |
|     | GEOG525 Forest Geog. & Con. (3)                                |              |
|     | Or other approved environmental geography course (3)           |              |
|     | Select six additional hours of (200+) geography coursework (6) |              |
|     | Related Requirements   |              |
|     | CHEM140 General Chemistry (4)**                                |              |
|     | (fulfilled by Core 7)  |              |
|     | GEOS101 Dynamic Earth (3)                                      |              |
|     | GEOS303 Climate Science (3)**                                  |              |
|     | (fulfilled by Distribution 3)                                  |              |
|     | GEOS320 Meteorology I (3)                                      |              |
|     | Select ONE of the following:                                   |              |
|     | GEOS 321 Meteorology II (3)                                    |              |
|     | GEOS375 Environmental Geology (3)                              |              |
|     | GEOS 430 Geology of Energy Resources (3)                       |              |
|     | GEOS 505 Soil Geomorphology (3)                                |              |
|     | GEOS 525 Field Studies in Geology (3)                          |              |
|     | GEOS 541 Geomorphology (3)                                     |              |
|     | GEOS 545 Hydrogeology (3)                                      |              |
|     | Or other approved GEOS (311+) course (3)                       |              |
|     | Select 35 hrs of Free Electives                                |              |

**BACHELOR OF ARTS – ENVIRONMENTAL STUDIES**  
(Suggested Eight Semester Sequence)

**First Semester**

|         |                            |              |
|---------|----------------------------|--------------|
| ENGL101 | College Writing Skills (3) |              |
| GEOG101 | World Geography (3) or     |              |
| GEOG130 | Cultural Geography (3)     |              |
| GEOG145 | Environmental Issues (3)   |              |
|         | Core (3)                   |              |
|         | Core (3)                   |              |
|         | <b>TOTAL</b>               | 15 sem. hrs. |

**Second Semester**

|         |                                       |              |
|---------|---------------------------------------|--------------|
| ENGL102 | Research Writing (3)                  |              |
| GEOG245 | Conservation of Natural Resources (3) |              |
| MATH104 | Finite Math (3) or higher             |              |
|         | Core (3)                              |              |
|         | Core (3)                              |              |
|         | <b>TOTAL</b>                          | 15 sem. hrs. |

**Third Semester**

|         |                       |              |
|---------|-----------------------|--------------|
| GEOG305 | Basic Cartography (3) |              |
| GEOS101 | Dynamic Earth (3)     |              |
|         | Core (3)              |              |
|         | Core (3)              |              |
|         | Free Elective (3)     |              |
|         | <b>TOTAL</b>          | 15 sem. hrs. |

**Fourth Semester**

|         |                                    |              |
|---------|------------------------------------|--------------|
| CHEM140 | General Chemistry (4)              |              |
| GEOG320 | Physical Geography (3)             |              |
| GEOG413 | Geographic Information Systems (3) |              |
|         | Distribution (3)                   |              |
|         | Free Elective (3)                  |              |
|         | <b>TOTAL</b>                       | 16 sem. hrs. |

**Fifth Semester**

|         |                      |              |
|---------|----------------------|--------------|
| GEOG411 | Spatial Analysis (3) |              |
| GEOS320 | Meteorology I (3)    |              |
|         | Distribution (3)     |              |
|         | Free Elective (3)    |              |
|         | Free Elective (3)    |              |
|         | <b>TOTAL</b>         | 15 sem. hrs. |

**Sixth Semester**

|             |                     |              |
|-------------|---------------------|--------------|
| GEOG (200+) | Elective (3)        |              |
| GEOG425     | Water Resources (3) |              |
| GEOS303     | Climate Science (3) |              |
|             | Free Elective (3)   |              |
|             | Free Elective (3)   |              |
|             | <b>TOTAL</b>        | 15 sem. hrs. |

**Seventh Semester**

|             |  |              |
|-------------|--|--------------|
| GEOG (200+) | Elective (3)                                 |              |
|             | Select from either GEOG 395, 515, 525 (3) or |              |
|             | Approved list of GEOS prefix Elective (3)    |              |
| GEOG545     | Environmental Planning (3)                   |              |
|             | Free Elective (3)                            |              |
|             | Free Elective (3)                            |              |
|             | <b>TOTAL</b>                                 | 15 sem. hrs. |

**Eighth Semester**

|  |  |              |
|--|--|--------------|
|  | Select from either GEOG 395, 515, 525 (3) or |              |
|  | Approved list of GEOS prefix Elective (3)    |              |
|  | Free Elective (3)                            |              |
|  | Free Elective (3)                            |              |
|  | Free Elective (3)                            |              |
|  | Free Elective (2)                            |              |
|  | <b>TOTAL</b>                                 | 14 sem. hrs. |

**Bachelor of Science Degree**

**Geographic Information Science**

The Geographic Information Science program is designed to prepare students for a variety of careers in the rapidly expanding GIS field. The program emphasizes practical application of GIS technology. Graduates of the program will find employment applying GIS to solving real-world problems in business, environmental science, public utilities, regional planning, and other industries.

All students completing a Bachelor of Science degree in Geographic Information Science must fulfill the requirements of the General Education Curriculum, and in addition complete five required courses that provide a 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 Science program in Geographic Information Science are to:

1. Develop core knowledge of geospatial technologies and techniques, and the study of spatial phenomena
2. Acquire and hone intellectual and practical skills necessary to succeed as a professional in geography and related fields.
3. Develop Core knowledge of human and physical systems and the natural world.
4. Develop capacity for integration and synthesis with respect to geographical opportunities and problems

Students enrolled in either of the Geographic Information Science program further refine their course of study in consultation with the department advisor by selecting 36 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, thus creating an individualized degree program according to his/her career interests.

**BS GEOGRAPHIC INFORMATION SCIENCE**

|   |              |
|---|--------------|
| I. General Education Requirements                           | 42 sem. hrs  |
| II. Required Geography Courses                              | 33 sem. hrs* |
| GEOG 101 or World Geography (3)                             |              |
| GEOG130 Cultural Geography(3)                               |              |
| GEOG 245 Conservation of Natural Resources (3)              |              |
| GEOG305 Basic Cartography (3)                               |              |
| GEOG320 Physical Geography (3)                              |              |
| GEOG335 Urban Geography (3)                                 |              |
| GEOG340 Economic Geography (3)                              |              |
| GEOG545 Environmental Planning (3)                          |              |
| GEOG411 Spatial Analysis (3)                                |              |
| GEOG413 Geographic Information Systems (3)                  |              |
| CSCI130 Principles of Programming I (3)                     |              |
| 3 hours approved GEOG 200 or above (3)                      |              |
| III. Geography Electives                                    | 12 sem. hrs  |
| GEOG395 Geography Internship (3)                            |              |
| GEOG405 Advanced Cartography (3)                            |              |
| GEOG414 Remote Sensing (3)                                  |              |
| GEOG420 GIS Applications in Business and Planning (3)       |              |
| GEOG513 Geographic Information Systems II: GIS Modeling (3) |              |
| or other approved techniques course (3)                     |              |
| IV. Free Electives  | 33 sem. hrs* |
| Total   | 120 sem. hrs |

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 SCIENCE-GEOGRAPHIC INFORMATION SCIENCE**

**(Suggested Eight Semester Sequence)**

**First Semester**

|         |                                       |
|---------|---------------------------------------|
| ENGL101 | College Writing Skills (3)            |
| GEOG101 | World Geography (3)                   |
| GEOG245 | Conservation of Natural Resources (3) |
|         | General Education Course (3)          |
|         | General Education Course (3)          |
| TOTAL   | 15 sem. hrs.                          |

**Second Semester**

|         |                              |
|---------|------------------------------|
| ENGL102 | Research Writing (3)         |
| MATH105 | College Algebra (3)          |
| GEOG305 | Basic Cartography (3)        |
|         | General Education Course (3) |
|         | General Education Course (3) |
| TOTAL   | 15 sem. hrs.                 |

**Third Semester**

|         |                              |
|---------|------------------------------|
| GEOG413 | Geog Info Systems (3)        |
| GEOG335 | Urban Geography (3)          |
|         | General Education Course (3) |
|         | General Education Course (3) |
|         | Free Elective (3)            |
| TOTAL   | 15 sem. hrs.                 |

**Fourth Semester**

|         |                                 |
|---------|---------------------------------|
| GEOG320 | Physical Geography (3)          |
| CSCI130 | Principles of Programming I (3) |
|         | General Education Course (3)    |
|         | General Education Course (3)    |
|         | Free Elective (3)               |
| TOTAL   | 15 sem. hrs.                    |

**Fifth Semester**

|         |                              |
|---------|------------------------------|
| GEOG411 | Spatial Analysis (3)         |
| GEOG340 | Economic Geography (3)       |
|         | Select one from              |
|         | GEOG 395,405,414,420,513 (3) |
|         | General Education Course (3) |
|         | Free Elective (3)            |
| TOTAL   | 15 sem. hrs.                 |

**Sixth Semester**

|             |                              |
|-------------|------------------------------|
| GEOG (300+) | Elective (3)                 |
|             | Select one from              |
|             | GEOG 395,405,414,420,513 (3) |
|             | General Education Course (3) |
|             | Free Elective (3)            |
|             | Free Elective (3)            |
| TOTAL       | 15 sem. hrs.                 |

**Seventh Semester**

|         |  |
|---------|--|
| GEOG545 | Environmental Planning (3)                   |
|         | Select one from GEOG 395,405,414,420,513 (3) |
|         | Free Elective (3)                            |
|         | Free Elective (3)                            |
|         | Free Elective (3)                            |
| TOTAL   | 15 sem. hrs.                                 |

**Eighth Semester**

|       |  |
|-------|--|
|       | Select one from GEOG 395,405,414,420,513 (3) |
|       | Free Elective (3)                            |
|       | Free Elective (3)                            |
|       | Free Elective (3)                            |
|       | Free Elective (3)                            |
| TOTAL | 15 sem. hrs.                                 |

## 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.

#### BS GEOLOGY (no concentration)

|                                   |                               |              |
|-----------------------------------|-------------------------------|--------------|
| I. General Education Requirements |                               | 44 sem. hrs. |
| II. Required Geology Courses      |                               | 32 sem. hrs* |
| GEOS 101                          | Dynamic Earth (3)             |              |
| GEOS 112                          | Prin. of Earth History (3)    |              |
| GEOS 311                          | Mineralogy (4)                |              |
| GEOS 513                          | Petrology (4)                 |              |
| GEOS 521                          | Strat. and Sediment (4)       |              |
| GEOS 523                          | Invert. Paleontology (4)      |              |
| GEOS 525                          | Field Studies (3)             |              |
| GEOS 531                          | Structural Geology (4)        |              |
| GEOS 545                          | Hydrogeology                  |              |
| III. Geosciences Electives        |                               | 12 sem. hrs  |
| GEOS 303                          | Climate Science (3)           |              |
| GEOS 320                          | Meteorology I (3)             |              |
| GEOS 321                          | Meteorology II (3)            |              |
| GEOS 375                          | Environ Geology (3)           |              |
| GEOS 410                          | Applied Geophysics (3)        |              |
| GEOS 430                          | Geol of Energy Resources (3)  |              |
| GEOS 505                          | Soil Geomorph (3)             |              |
| GEOS 507                          | Quaternary Geology (3)        |              |
| GEOS 522                          | Regional Geology (3)          |              |
| GEOS 541                          | Geomorphology (3)             |              |
| GEOS 593                          | Seminar in Earth Sci (3)      |              |
| GEOG 425                          | Geog of Water Resources (3)   |              |
| GEOG 545                          | Environ Planning (3)          |              |
|                                   | Other GEOS 311+ courses (3-4) |              |

|                                     |                                |              |
|-------------------------------------|--------------------------------|--------------|
| IV. Related Science Requirements    |                                | 15 sem. hrs* |
| GEOG 305                            | Cartography (3)                |              |
| CHEM 240                            | Principles of Chemistry I (4)  |              |
| Choose <u>two</u> of the following: |                                |              |
| CHEM 241                            | Principles of Chemistry II (4) |              |
| MATH 212                            | Anal Geom / Calc II (4)        |              |
| PHYS 202                            | Physics II (4)                 |              |
| V. Capstone Experience              |                                | 3 sem. hrs*  |
| Choose at least <u>one</u> :        |                                |              |
| GEOS 395                            | Internship in Earth Sci (3+)   |              |
| GEOS 581                            | Geology Field Camp (3+)        |              |
| GEOS 495                            | Res Experience in Geos (3)     |              |
| Select 19 hrs of free electives     |                                |              |
|                                     | Total                          | 120 sem. hrs |

#### BS GEOLOGY: ENVIRONMENTAL GEOLOGY CONCENTRATION

|                                     |                                |              |
|-------------------------------------|--------------------------------|--------------|
| I. General Education Requirements   |                                | 44 sem. hrs. |
| II. Required Geology Courses        |                                | 32 sem. hrs* |
| GEOS 101                            | Dynamic Earth (3)              |              |
| GEOS 112                            | Prin. of Earth History (3)     |              |
| GEOS 375                            | Environ Geology (3)            |              |
| GEOS 505                            | Soil Geomorph (3)              |              |
| GEOS 521                            | Strat. and Sediment (4)        |              |
| GEOS 525                            | Field Studies (3)              |              |
| GEOS 531                            | Structural Geology (4)         |              |
| GEOS 541                            | Geomorphology (3)              |              |
| GEOS 545                            | Hydrogeology                   |              |
| GEOG 545                            | Environ Planning (3)           |              |
| III. Geosciences Electives          |                                | 13 sem. hrs  |
| GEOS 303                            | Climate Science (3)            |              |
| GEOS 311                            | Mineralogy (4)                 |              |
| GEOS 320                            | Meteorology I (3)              |              |
| GEOS 321                            | Meteorology II (3)             |              |
| GEOS 410                            | Applied Geophysics (3)         |              |
| GEOS 430                            | Geol of Energy Resources (3)   |              |
| GEOS 507                            | Quaternary Geology (3)         |              |
| GEOS 513                            | Petrology (4)                  |              |
| GEOS 522                            | Regional Geology (3)           |              |
| GEOS 523                            | Invert. Paleontology (4)       |              |
| GEOS 593                            | Seminar in Earth Sci (3)       |              |
| GEOG 425                            | Geog of Water Resources (3)    |              |
| Other GEOS 311+ courses (3-4)       |                                |              |
| IV. Related Science Requirements    |                                | 15 sem. hrs* |
| GEOG 305                            | Cartography (3)                |              |
| CHEM 240                            | Principles of Chemistry I (4)  |              |
| Choose <u>two</u> of the following: |                                |              |
| CHEM 241                            | Principles of Chemistry II (4) |              |
| MATH 212                            | Anal Geom / Calc II (4)        |              |
| PHYS 202                            | Physics II (4)                 |              |
| V. Capstone Experience              |                                | 3 sem. hrs*  |
| Choose at least <u>one</u> :        |                                |              |
| GEOS 395                            | Internship in Earth Sci (3+)   |              |
| GEOS 581                            | Geology Field Camp (3+)        |              |
| GEOS 495                            | Res Experience in Geos (3)     |              |
| Select 19 hrs of free electives     |                                |              |
|                                     | Total                          | 120 sem. hrs |

\*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) |       |              |
| GEOG 145 | Environmental Issues (3)   |       |              |
|          | Core (3)                   |       |              |
|          | Core (3)                   |       |              |
|          |                            | TOTAL | 15 sem. hrs. |

**Second Semester**

|          |   |       |              |
|----------|---|-------|--------------|
| ENGL 102 | Specialized College Writing and Research Skills (3) |       |              |
| GEOS 112 | Principles of Earth History (3)                     |       |              |
| GEOG 305 | Cartography (3)                                     |       |              |
| MATH 105 | (or Math course identified by placement test) (3)   |       |              |
|          | Core (3)  |       |              |
|          |   | TOTAL | 15 sem. hrs. |

**Third Semester**

|                 |                                       |       |              |
|-----------------|---------------------------------------|-------|--------------|
| GEOS 311        | Mineralogy (4)                        |       |              |
| BIOL 102        | Environmental Biology (3)             |       |              |
| MATH 211 or 260 | (3 or 4)                              |       |              |
| GEOG 245        | Conservation of Natural Resources (3) |       |              |
|                 | Core (3)                              |       |              |
|                 |                                       | TOTAL | 16 sem. hrs. |

**Fourth Semester**

|          |                                    |       |              |
|----------|------------------------------------|-------|--------------|
| GEOS 513 | Petrology (4)                      |       |              |
| PHYS 201 | Physics I (4)                      |       |              |
| GEOG 413 | Geographic Information Systems (3) |       |              |
|          | Distribution (3)                   |       |              |
|          | GEOS Elective (3)                  |       |              |
|          |                                    | TOTAL | 17 sem. hrs. |

**Fifth Semester**

|          |                          |       |              |
|----------|--------------------------|-------|--------------|
| GEOS 525 | Field Studies (3)        |       |              |
| GEOS 531 | Structural Geology (4)   |       |              |
| CHEM 240 | Principles of Chem I (4) |       |              |
|          | GEOS Elective (3)        |       |              |
|          | Free Elective (3)        |       |              |
|          |                          | TOTAL | 17 sem. hrs. |

**Sixth Semester**

|                                 |                          |       |              |
|---------------------------------|--------------------------|-------|--------------|
| Choose one of the following:    |                          |       |              |
| MATH 212, CHEM 241, or PHYS 202 | (4)                      |       |              |
| GEOS 521                        | Strat. and Sediment. (4) |       |              |
| GEOS 523                        | Invert. Paleontology (4) |       |              |
|                                 | GEOS Elective (3)        |       |              |
|                                 |                          | TOTAL | 15 sem. hrs. |

**Seventh Semester**

|                                 |                   |       |              |
|---------------------------------|-------------------|-------|--------------|
| Choose one of the following:    |                   |       |              |
| MATH 212, CHEM 241, or PHYS 202 | (4)               |       |              |
| GEOS 545                        | Hydrogeology (3)  |       |              |
|                                 | GEOS Elective (3) |       |              |
|                                 | Free Elective (3) |       |              |
|                                 |                   | TOTAL | 13 sem. hrs. |

**Eighth Semester**

|  |                          |       |              |
|--|--------------------------|-------|--------------|
|  | Capstone Experience (3+) |       |              |
|  | Free Elective (3)        |       |              |
|  | Free Elective (3)        |       |              |
|  | Free Elective (3)        |       |              |
|  |                          | TOTAL | 12 sem. hrs. |

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.

**BACHELOR OF SCIENCE – GEOLOGY:**  
**ENVIRONMENTAL GEOLOGY**  
**(Suggested Eight Semester Sequence)**
**First Semester**

|          |                            |       |              |
|----------|----------------------------|-------|--------------|
| GEOS 101 | Dynamic Earth (3)          |       |              |
| ENGL 101 | College Writing Skills (3) |       |              |
| GEOG 145 | Environmental Issues (3)   |       |              |
|          | Core (3)                   |       |              |
|          | Core (3)                   |       |              |
|          |                            | TOTAL | 15 sem. hrs. |

**Second Semester**

|          |   |       |              |
|----------|---|-------|--------------|
| ENGL 102 | Specialized College Writing and Research Skills (3) |       |              |
| GEOS 112 | Principles of Earth History (3)                     |       |              |
| GEOG 305 | Cartography (3)                                     |       |              |
| MATH 105 | (or Math course identified by placement test) (3)   |       |              |
|          | Core (3)  |       |              |
|          |   | TOTAL | 15 sem. hrs. |

**Third Semester**

|                 |                                       |       |              |
|-----------------|---------------------------------------|-------|--------------|
| GEOS 375        | Environmental Geology (3)             |       |              |
| BIOL 102        | Environmental Biology (3)             |       |              |
| MATH 211 or 260 | (3 or 4)                              |       |              |
| GEOG 245        | Conservation of Natural Resources (3) |       |              |
|                 | Core (3)                              |       |              |
|                 |                                       | TOTAL | 16 sem. hrs. |

**Fourth Semester**

|          |                                    |       |              |
|----------|------------------------------------|-------|--------------|
| GEOS 541 | Geomorphology (3)                  |       |              |
| PHYS 201 | Physics I (4)                      |       |              |
| GEOG 413 | Geographic Information Systems (3) |       |              |
|          | Distribution (3)                   |       |              |
|          | GEOS Elective (3)                  |       |              |
|          |                                    | TOTAL | 16 sem. hrs. |

**Fifth Semester**

|          |                          |       |              |
|----------|--------------------------|-------|--------------|
| GEOS 525 | Field Studies (3)        |       |              |
| GEOS 531 | Structural Geology (4)   |       |              |
| CHEM 240 | Principles of Chem I (4) |       |              |
|          | GEOS Elective (3)        |       |              |
|          | Free Elective (3)        |       |              |
|          |                          | TOTAL | 17 sem. hrs. |

**Sixth Semester**

|                                 |                          |       |              |
|---------------------------------|--------------------------|-------|--------------|
| Choose one of the following:    |                          |       |              |
| MATH 212, CHEM 241, or PHYS 202 | (4)                      |       |              |
| GEOS 521                        | Strat. and Sediment. (4) |       |              |
| GEOS 505                        | Soil Geomorphology       |       |              |
|                                 | GEOS Elective (3)        |       |              |
|                                 |                          | TOTAL | 15 sem. hrs. |

**Seventh Semester**

|                                 |                   |       |              |
|---------------------------------|-------------------|-------|--------------|
| Choose one of the following:    |                   |       |              |
| MATH 212, CHEM 241, or PHYS 202 | (4)               |       |              |
| GEOS 545                        | Hydrogeology (3)  |       |              |
|                                 | GEOS Elective (4) |       |              |
|                                 | Free Elective (3) |       |              |
|                                 |                   | TOTAL | 14 sem. hrs. |

**Eighth Semester**

|  |                                     |       |              |
|--|-------------------------------------|-------|--------------|
|  | Capstone Experience (3+)            |       |              |
|  | GEOS 545 Environmental Planning (3) |       |              |
|  | Free Elective (3)                   |       |              |
|  | Free Elective (3)                   |       |              |
|  |                                     | TOTAL | 12 sem. hrs. |

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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# Mathematics and Computer Science Department

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**FACULTY:** Nathan Adelgren, Melanie Baker, Daniel M. Bennett, Lawrence Downey, John Hoggard, Korey Kilburn, Frank J. Marzano, Timothy S. Meyer, Joseph M. Molnar, Amanda Porter, Douglas Puharic, Anne K. Quinn, Corinne Schaeffer, Marc A. Sylvester, Sajedul Talukder, David Tucker, Richard K. White, Roger Wolbert

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.

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## 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.        |
| ENGL101                            | College Writing Skills (3)  |                     |
| ENGL102                            | Research Writing (3)  |                     |
| MATH105                            | College Algebra (3)   |                     |
| CSCI125                            | Intro to Computer Science (3)   |                     |
|                                    | Four courses in four areas of approved Core 1-6 in general electives (12) |                     |
| II. Required Computer Courses*     |   | 33 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*         |   | 3 sem. hrs.         |
|                                    | STAT260 Elements of Statistics (3)  |                     |
|                                    | <b>TOTAL</b>  | <b>60 sem. hrs.</b> |

\*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.

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## Bachelor of Science Degree

### Data Analytics

As increasing amounts of data are gathered and analyzed in all human endeavors, the growth of so-called “big data” has been rapid. Gathering and analyzing massive and rapidly changing data sets has taken a large role in a wide range of areas, including marketing, online retail, gene sequencing, social media, educational tracking, politics, and journalism. The major in Data Analytics prepares students to work with data scientists in gathering and analyzing data, and to use cutting-edge statistical software and techniques to help understand and model complex data sets. Students will learn the basics of statistics, programming with statistical software, working with large and messy data sets, and communicating the results of analysis, as well as understanding the broader and still evolving field of Data Science.

### Program Objectives

A graduate from the Data Analytics program should be able to:

1. **Explore and analyze data to solve problems.** In particular, students should be able to:
    - a. Identify and locate data relevant to a problem.
    - b. Perform exploratory analysis on data to identify trends and patterns.
    - c. Perform statistical tests on data, including producing summary statistics and selecting, implementing, and interpreting statistical tests.
    - d. Select and build appropriate statistical or machine learning models to help analyze data or produce predictions from data, and to identify the strengths and weaknesses of the models.
  2. **Use technology relevant to analysis of large, complex, or messy data sets.** In particular, students should be able to:
    - a. Use technology appropriately in all stages of data analysis.
    - b. Import data into common statistical software.
    - c. Clean imported data.
    - d. Write clear and efficient code in the programming languages relevant to Data Analytics.
  3. **Communicate the results of data analysis.** In particular, students should be able to:
    - a. Explain the results of data analysis, in both written and oral form.
    - b. Produce useful and effective data visualizations.
    - c. Address audiences of either specialists or non-specialists.
  4. **Prepare for professional participation within the larger field of Data Science.** In particular, students should be able to:
    - a. Engage in self-directed exploration and study of new subjects and techniques to help solve data analysis problems.
    - b. Describe the roles and responsibilities of the data scientist or data analyst within data science.
    - c. Identify and discuss major ethical issues within data science and data analytics.
    - d. Develop a personal code of values and ethics that addresses the areas of citation and data ownership, security and sensitivity of data, consequences and privacy of data analysis, and the professionalism of transparency and reproducibility.
- |     |   |              |
|-----|---|--------------|
| I.  | General Education Requirements              | 42 sem. hrs. |
|     | A. Skills                                   | 12 sem. hrs. |
|     | ENGL101 College Writing (3)                 |              |
|     | ENGL102 Research Writing (3)                |              |
|     | MATH 105 College Algebra (3)                |              |
|     | DSCI 101 Introduction to Data 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 (3)          |              |
|     | Sciences and Mathematics (3)                |              |
| II. | Specialization**                            | 31 sem. hrs. |
|     | DSCI 101 Data Science Courses               | 18 sem. hrs. |
|     | Introduction to Data Analytics (3)          |              |

|       |  |                                       |
|-------|--|---------------------------------------|
|       | DSCI 201   | Advanced Spreadsheets (3)             |
|       | DSCI 210   | Applied Scientific Programming I (3)  |
|       | DSCI 310   | Applied Scientific Programming II (3) |
|       | DSCI 301   | Advance Data Science Tools (3)        |
|       | DSCI 460   | Machine Learning (3)                  |
|       | DSCI 490   | Data Science Capstone (3)             |
|       |  | Cognate Courses 15 sem. hrs.          |
|       | Math 105   | College Algebra (3)*                  |
|       | Math 208   | Essentials of Calculus (3)            |
|       | Math 275   | Linear Algebra I (3)                  |
|       | CSCI 313   | Data Base Management Systems (3)      |
|       | STAT 300   | App. Stats/Data Analysis (3)          |
|       | STAT 360   | Statistical Inference (3)             |
| III-A | Specialized Field (Track A)  | 15-24 sem. hrs.                       |
|       | Select one University approved minor other than the Applied Math minor or the Data Analytics minor OR  |                                       |
| III-B | Individualized Field (Track B)   | 18 sem. hrs.                          |
|       | This track requires successful completion of an advisor approved combination of courses. At least two of the courses must be advance coursework. |                                       |
| IV.   | Free Electives   | 21-30 sem. hrs.                       |
|       | <b>TOTAL</b>   | <b>120 sem. hrs</b>                   |

\* Credit hours counted in General Education.  
 \*\* Grade of C- or better required in all DSCI, STAT, CSCI, and MATH courses.  
 NOTE: At least 42 credits must consist of advanced coursework.

**BACHELOR OF SCIENCE – DATA ANALYTICS  
 (Suggested Eight-Semester Sequence)**

|                        |          |   |
|------------------------|----------|---|
| <b>First Semester</b>  |          |   |
|                        | ENGL 101 | College Writing Skills (3)              |
|                        | MATH 105 | College Algebra (3)                     |
|                        | DSCI 101 | Introduction to Data Analytics (3)      |
|                        |          | General Education (6)                   |
|                        |          | Total 15 sem. hrs.                      |
| <b>Second Semester</b> |          |   |
|                        | MATH 208 | Essentials of Calculus (3)              |
|                        | DSCI 201 | Advanced Spreadsheets (3)               |
|                        | ENGL 102 | Writing and Research (3)                |
|                        |          | Specialized or Individualized Field (3) |
|                        |          | General Education (3)                   |
|                        |          | Total 15 sem. hrs.                      |
| <b>Third Semester</b>  |          |   |
|                        | MATH 275 | Linear Algebra I (3)                    |
|                        | STAT 300 | App. Stats/Data Analysis (3)            |
|                        | DSCI 210 | Applied Scientific Prog. I (3)          |
|                        |          | General Education (6)                   |
|                        |          | Total 15 sem. hrs.                      |
| <b>Fourth Semester</b> |          |   |
|                        | STAT 360 | Statistical Inference (3)               |
|                        | DSCI 310 | Applied Scientific Prog. II (3)         |
|                        |          | Specialized or Individualized Field (3) |
|                        |          | General Education (6)                   |
|                        |          | Total 15 sem. hrs.                      |
| <b>Fifth Semester</b>  |          |   |
|                        | DSCI 301 | Advanced Data Science Tools (3)         |
|                        |          | Specialized or Individualized Field (6) |
|                        |          | General Education (6)                   |
|                        |          | Total 15 sem. hrs.                      |
| <b>Sixth Semester</b>  |          |   |
|                        | DSCI 460 | Machine Learning (3)                    |
|                        | CSCI 313 | Data Base Management Systems (3)        |

|                         |   |              |  |
|-------------------------|---|--------------|--|
|                         | Specialized or Individualized Field (3) |              |  |
|                         | General Education (3)                   |              |  |
|                         | Free Elective (3)                       |              |  |
|                         | Total                                   | 15 sem. hrs. |  |
| <b>Seventh Semester</b> |   |              |  |
| DSCI 490                | Data Science Capstone (3)               |              |  |
|                         | Specialized or Individualized Field (3) |              |  |
|                         | Free Elective (9)                       |              |  |
|                         | Total                                   | 15 sem. hrs. |  |
| <b>Eight Semester</b>   |   |              |  |
|                         | Free Elective (15)                      |              |  |
|                         | Total                                   | 15 sem. hrs. |  |

## 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   | Research Writing (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:   |
|      |   | Principles of Programming I (3) or Applied Scientific Programming (3)       |
| II.  | Specialization*   | 42 sem. hrs.  |
| A.   | Required Mathematics**  | 31 sem. hrs.  |
|      | CSCI130   |   |
|      | DSCI210   |   |
|      | 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)                                      |
|      | STAT350   | 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.  |
|      | (DSCI301, DSCI460, MATH/STAT 301 or higher-, Not MATH403*, MATH404* (Internship may not be used to fulfill this requirement.) |   |
| III. | Free Electives***   | 36 sem. hrs.  |
|      | TOTAL   | 120 sem. hrs.   |

\*BSMA majors seeking certification in Secondary Ed Math may count MATH403 and MATH404 as mathematics electives.

\*\*A grade of C- or better must be obtained in each MATH or STAT course counted toward the major and CSCI 130 or DSCI 210.

\*\*\*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 | Research Writing (3)              |
| MATH212 | Analytic Geometry/Calculus II (4) |

|                         |  |       |              |
|-------------------------|--|-------|--------------|
| MATH275                 | Linear Algebra I (3)<br>Core (6)   | TOTAL | 16 sem. hrs. |
| <b>Third Semester</b>   |  |       |              |
| MATH311                 | Analytic Geometry/Calculus III (4)   |       |              |
| MATH270                 | Discrete Mathematics I (3)<br>Core (9)                                       | TOTAL | 16 sem. hrs. |
| <b>Fourth Semester</b>  |  |       |              |
| MATH290                 | Foundations of Mathematical Proof (3)  |       |              |
| MATH370                 | Discrete Mathematics II (3)  |       |              |
| CSCI130                 | Principles of Programming (3)<br>Distribution (3)<br>Electives (3)           | TOTAL | 15 sem. hrs. |
| <b>Fifth Semester</b>   |  |       |              |
| STAT350                 | Math Prob/Stat (3)<br>Math Elective (3)<br>Distribution (3)<br>Electives (6) | TOTAL | 15 sem. hrs. |
| <b>Sixth Semester</b>   |  |       |              |
| MATH421                 | Abstract Algebra (3)   |       |              |
| MATH411                 | Introduction to Analysis (3)<br>Electives (9)                                | TOTAL | 15 sem. hrs. |
| <b>Seventh Semester</b> |  |       |              |
| MATH480                 | Seminar (1)<br>Math Elective (3)*<br>Electives (9)                           | TOTAL | 13 sem. hrs. |
| <b>Eighth Semester</b>  |  |       |              |
|                         | Math Electives (5)*<br>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  | Research Writing (3)                                  |
|     | MATH270  | Discrete Mathematics I (3)<br>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) or                    |
|     | DSCI210  | Applied Scientific Programming (3)                    |
| II. | Specialization*  | 57 sem. hrs.  |
| A.  | Required Mathematics**   | 33 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)              |
|     | STAT350  | Mathematical Prob/Stat (3)                            |
|     | STAT360  | Statistical Inference (3)                             |
|     | STAT380  | Introduction to Actuarial Science (2)                 |
|     | MATH381  | Actuarial Financial Math (3)                          |
|     | MATH411  | Introduction to Analysis (3)                          |
|     | MATH480  | Mathematics Seminar (1)                               |
| B.  | Mathematics Electives  | 9 sem. hrs.   |
|     | <b>Courses used to satisfy this requirement should be chosen from:</b> |   |
|     | DSCI301  | Advanced Data Science Tools                           |
|     | DSCI460  | Applied Machine Learning                              |
|     | MATH317  | Differential Equations                                |
|     | MATH342  | Introduction to Operations Research                   |
|     | MATH370  | Discrete Mathematics II                               |
|     | MATH415  | Complex Analysis                                      |
|     | MATH417  | Introduction to Partial Differential                  |
|     | MATH430  | Applied Numerical Methods I                           |
|     | MATH431  | Applied Numerical Methods II                          |
|     | MATH443  | Optimization  |
|     | MATH465  | A Survey of Mathematical Modeling                     |
|     | MATH475  | Linear Algebra II                                     |
|     | ECON420  | Econometrics  |
|     | STAT442  | Stochastic Process                                    |
| C.  | Required Business Courses  | 15 sem. hrs.  |
|     | ACCT215  | Accounting I (3)                                      |
|     | ACCT220  | Accounting II (3)                                     |

|                        |   |                      |
|------------------------|---|----------------------|
| ECON225                | Principles of Macroeconomics (3)            |                      |
| FIN300                 | Business Finance I (3)                      |                      |
| COMM298                | Business and Professional Communication (3) |                      |
| III. Free Electives*** |   | 21 sem. hrs.         |
|                        | <b>TOTAL</b>                                | <b>120 sem. hrs.</b> |

\*\*A grade of C- or better must be obtained in each MATH or STAT course counted toward the major and CSCI130 or DSCI210.

\*\*\*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)

#### First Semester

|         |   |                     |
|---------|---|---------------------|
| ENGL101 | College Writing Skills (3)  |                     |
| MATH211 | Analytic Geometry and Calculus I (4)  |                     |
| CSCI104 | Essential Computing I (3) or Discipline specific Computer Competency Course |                     |
|         | General Education (6)   |                     |
|         | <b>TOTAL</b>  | <b>16 sem. hrs.</b> |

#### Second Semester

|         |   |                     |
|---------|---|---------------------|
| ENGL102 | Research Writing (3)  |                     |
| MATH212 | Analytic Geometry and Calculus II (4)                               |                     |
| CSCI130 | Principles of Programming I (3) or Applied Scientific Computing (3) |                     |
| DSCI210 | General Education (6)   |                     |
|         | <b>TOTAL</b>  | <b>16 sem. hrs.</b> |

#### Third Semester

|         |  |                     |
|---------|--|---------------------|
| MATH270 | Discrete Mathematics (3)                                 |                     |
| MATH311 | Analytic Geometry and Calculus III (4)                   |                     |
| ACCT215 | Accounting I (3)   |                     |
| ECON225 | (Gen Ed) Principles of Macroeconomics (3) Distribution 2 |                     |
|         | General Education (3)                                    |                     |
|         | <b>TOTAL</b>   | <b>16 sem. hrs.</b> |

#### Fourth Semester

|         |   |                     |
|---------|---|---------------------|
| MATH275 | Linear Algebra I (3)                      |                     |
| MATH290 | Foundations of Mathematical Proof (3)     |                     |
| ACCT220 | Accounting II (3)                         |                     |
| ECON220 | (Gen Ed) Principles of Microeconomics (3) |                     |
|         | Elective (3)                              |                     |
|         | <b>TOTAL</b>                              | <b>15 sem. hrs.</b> |

#### Fifth Semester

|         |                            |                     |
|---------|----------------------------|---------------------|
| STAT350 | Mathematical Prob/Stat (3) |                     |
| FIN300  | Business Finance I (3)     |                     |
|         | Math Elective (3)*         |                     |
|         | General Education (3)      |                     |
|         | Elective (3)               |                     |
|         | <b>TOTAL</b>               | <b>15 sem. hrs.</b> |

#### Sixth Semester

|         |  |                     |
|---------|--|---------------------|
| STAT360 | Statistical Inference (3)                    |                     |
| STAT380 | Intro to Actuarial Science (2)               |                     |
| MATH411 | Intro to Real Analysis (3)                   |                     |
| COMM298 | Business and Professional Communications (3) |                     |
|         | Electives (3)                                |                     |
|         | <b>TOTAL</b>                                 | <b>14 sem. hrs.</b> |

#### Seventh Semester

|         |                              |  |
|---------|------------------------------|--|
| MATH381 | Actuarial Financial Math (3) |  |
|---------|------------------------------|--|

|         |                         |                     |
|---------|-------------------------|---------------------|
| MATH480 | Mathematics Seminar (1) |                     |
|         | Math Elective (3)       |                     |
|         | General Education (3)   |                     |
|         | Electives (3)           |                     |
|         | <b>TOTAL</b>            | <b>13 sem. hrs.</b> |

#### Eighth Semester

|  |                       |                     |
|--|-----------------------|---------------------|
|  | Math Elective (3)*    |                     |
|  | General Education (3) |                     |
|  | Electives (9)         |                     |
|  | <b>TOTAL</b>          | <b>15 sem. hrs.</b> |

\*NOTE: Students are required to take three math electives from the following list: DSCI301, DSCI460, MATH317, MATH342, MATH370, MATH415, MATH417, MATH430, MATH431, MATH443, MATH465, MATH475, ECON420, STAT442

## Bachelor of Science Degree

### MATHEMATICS WITH AN ACTUARIAL CONCENTRATION (2+2 Cooperative Program)

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 | Research Writing (3)       |
|                                   | MATH270 | Discrete Mathematics I (3) |
|                                   | CSCI104 | Essential Computing I (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) or                |               |
| DSCI210  | Applied Scientific Programming (3)                |               |
| II. Specialization*  |   | 57 sem. hrs.  |
| A. Required Mathematics**  |   | 33 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)          |               |
| STAT350  | Mathematical Prob/Stat (3)                        |               |
| STAT360  | Statistical Inference (3)                         |               |
| STAT380  | Introduction to Actuarial Science (2)             |               |
| MATH381  | Actuarial Financial Math (3)                      |               |
| MATH411  | Introduction to Analysis (3)                      |               |
| MATH480  | Mathematics Seminar (1)                           |               |
| B. Mathematics Electives   |   | 9 sem. hrs.   |
| <b>Courses used to satisfy this requirement should be chosen from:</b> |   |               |
| DSCI301  | Advanced Data Science Tools                       |               |
| DSCI460  | Applied Machine Learning                          |               |
| MATH317  | Differential Equations                            |               |
| MATH342  | Introduction to Operations Research               |               |
| MATH370  | Discrete Mathematics II                           |               |
| MATH415  | Complex Analysis                                  |               |
| MATH417  | Introduction to Partial Differential              |               |
| MATH430  | Applied Numerical Methods I                       |               |
| MATH431  | Applied Numerical Methods II                      |               |
| MATH443  | Optimization                                      |               |
| MATH465  | A Survey of Mathematical Modeling                 |               |
| MATH475  | Linear Algebra II                                 |               |
| ECON420  | Econometrics                                      |               |
| STAT442  | Stochastic Process                                |               |
| C. Required Business Courses   |   | 15 sem. hrs.  |
| ACCT215  | Accounting I (3)                                  |               |
| ACCT220  | Accounting II (3)                                 |               |
| ECON225  | Principles of Macroeconomics (3)                  |               |
| FIN300   | Business Finance I (3)                            |               |
| COMM298  | Business and Professional Communication (3)       |               |
| III. Free Electives***   |   | 21 sem. hrs.  |
|  | TOTAL   | 120 sem. hrs. |

\*\*A grade of C- or better must be obtained in each MATH or STAT course counted toward the major and CSCI130 or DSCI210.

\*\*\*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 (2+2 Cooperative Program) (Suggested Eight-Semester Sequence)

### COURSES TO BE TAKEN IN CHINA:

#### First Semester

|                         |   |
|-------------------------|---|
| EU MATH 270, IA         | Discrete Mathematics (3)  |
| EU CSCI104, IA          | Fundamentals of Computer, Introduction of Information and Computing Science (3) |
| EU MATH211, IIA         | Mathematical Analysis I (4)   |
| EU MUSC103, IB, Core 1* | English Songs and Culture, Appreciation of British and American Drama (3)       |
| EU PSYC101, IB, Core 4* | General Psychology (3)  |
|                         | TOTAL 16 sem. hrs.  |

#### Second Semester

|                               |  |
|-------------------------------|--|
| EU MATH212, IIA               | Mathematical analysis II (4)   |
| EU HIST261, IB, Core 3*       | American History and Culture, The Culture of American Drama and American Society (3)       |
| FE1**, EU Free Electives, III | Internet Financial English (3)   |
| FE2**, EU Free Electives, III | Appreciation of Chinese and Western Culture, Etiquette and Intercultural Communication (3) |
|                               | TOTAL 13 sem. hrs.   |

#### Third Semester

|                         |                                       |
|-------------------------|---------------------------------------|
| EU MATH 311, IIA        | Mathematical analysis III (4)         |
| EU MATH275, IIA         | Advanced Algebra I (3)                |
| FE3**, EU Free Elective | Introduction to Academic English, (3) |
| FE4**, EU Free Elective | American Society and Culture (3)      |
| EU MATH317, IIB***      | Ordinary Differential Equations, (3)  |
|                         | TOTAL 16 sem. hrs.                    |

#### Fourth Semester

|                         |  |
|-------------------------|--|
| EU MATH475, IIB***      | Advanced Algebra II (3)  |
| EU SOCIO0, IB1 Core 5*  | Sociology (3)  |
| FE5**, EU Free Elective | International Business Correspondence, Introduction to Economics (3) |
| FE6**, EU Free Elective | Fundamentals of Information Theory (3)                               |
| FE7**, EU Free Elective | Mathematical Programming, (3)  |
|                         | TOTAL 15 sem. hrs.   |

Alternative courses that may transfer to EU

\*These courses must fall under Edinboro University corresponding core courses.

\*\*These are free electives; Students can take alternative courses at NJFU as long as they are approved by the transfer credit office at EU.

\*\*\*These are math electives; Students can take alternative courses equivalent to those in category IIB on the curriculum sheet of Actuarial Concentration, at Math and Computer Science Department, EU.

### COURSES TO BE TAKEN AT EDINBORO UNIVERSITY:

#### Fifth Semester

|         |                                    |
|---------|------------------------------------|
| ENGL101 | College Writing Skills (3)         |
| ACCT215 | Accounting I (3)                   |
| ECON220 | Principles of Micro Economics (3)* |
| MATH381 | Actuarial Financial Math (3)       |
|         | General Education (3)              |
|         | TOTAL 15 sem. hrs.                 |

#### Sixth Semester

|         |                                       |
|---------|---------------------------------------|
| ENGL102 | Writing and Research (3)              |
| ACCT220 | Accounting II (3)                     |
| MATH290 | Foundations of Mathematical Proof (3) |
| ECON225 | Principles of Macro Economics (3)     |
|         | General Education (3)                 |
|         | TOTAL 15 sem. hrs.                    |

**Seventh Semester**

|         |   |
|---------|---|
| CSCI130 | Principles of Programming (3) or            |
| DSCI210 | Applied Scientific Programming (3)          |
| FIN300  | Principles of Finance (3)                   |
| STAT350 | Mathematical Probability and Statistics (3) |
| MATH480 | Mathematics Seminar (1)                     |
|         | General Education (6)                       |
|         | <b>TOTAL</b> 16 sem. hrs.                   |

**Eighth Semester**

|         |  |
|---------|--|
| COMM298 | Business and Professional Communications (3) |
| STAT360 | Statistical Inference (3)                    |
| STAT380 | Introduction to Actuarial Science (2)        |
| MATH411 | Real Analysis (3)                            |
|         | Math Elective (3)                            |
|         | <b>TOTAL</b> 14 sem. hrs.                    |

| <b>NOTE</b>                   | <b>CHINA/US</b> | <b>TOTAL</b> |
|-------------------------------|-----------------|--------------|
| General Education             | 18/24           | 42           |
| Required Mathematics Courses  | 15/18           | 33           |
| Required Professional Courses | 0/15            | 15           |
| Mathematics Electives         | 6/3             | 9            |
| Free Electives                | 21/0            | 21           |

**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, Cybersecurity track, Web and Mobile Application Development 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, accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>, is 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                           | Research Writing (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)                           |
|      | STAT300                           | App. Stats/Data Analysis (3)                         |
| IV.  | Free Electives                    | 18 sem. hrs.   |
|      | <b>TOTAL</b>                      | <b>120 sem. hrs.</b>                                 |

\*A grade of C- or better must be obtained in all CSCI, MATH, and STAT course.

NOTE: At least 42 credits must consist of advanced coursework.

At most 12 CSCI credits may be transferred into program.

**CYBERSECURITY Track**

|    |                             |                                      |
|----|-----------------------------|--------------------------------------|
| I. | General Education Component | 42 sem. hrs.                         |
| A. | Skills                      | 12 sem. hrs.                         |
|    | ENGL101                     | College Writing Skills (3)           |
|    | ENGL102                     | Research Writing (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) |                      |
| MATH270                               | Discrete Math I (3)   |                      |
| II. Specialization: Computer Science* |   | 54 sem. hrs.         |
| A. Computer Science Core              |   | 18 sem. hrs.         |
|                                       | CSCI130 Principles of Programming I (3)   |                      |
|                                       | CSCI230 Principles of Programming II (3)  |                      |
|                                       | CSCI277 Introduction to Cyber (3)   |                      |
|                                       | CSCI312 Computer Architecture (3)   |                      |
|                                       | CSCI330 Object Oriented Programming (3)   |                      |
|                                       | CSCI385 Data Structures and Algorithms (3)  |                      |
| B. Computer Science Concentration     |   | 30 sem. hrs.         |
|                                       | CSCI280 PC Sys Op & Admin (3)   |                      |
|                                       | CSCI311 Script and Systems Prog (3)   |                      |
|                                       | CSCI325 Web Server Admin (3)  |                      |
|                                       | CSCI377 Secure Software Development (3)   |                      |
|                                       | CSCI380 Operating Systems (3)   |                      |
|                                       | CSCI419 Cryptography and Data Security (3)  |                      |
|                                       | CSCI425 Network Sys Admin (3)   |                      |
|                                       | CSCI475 Data Comm & Network (3)   |                      |
|                                       | CSCI477 Network Security (3)  |                      |
|                                       | CSCI487 Cybersecurity Policy/Iss (3)  |                      |
| C. Computer Science Elective          |   | 6 sem. hrs.          |
|                                       | Must be CSCI 123 or higher  |                      |
| III. Required Mathematics *           |   | 6 sem. hrs.          |
|                                       | MATH208 Essentials of Calculus (3)  |                      |
|                                       | STAT300 Applied Stats (3)   |                      |
| IV. Free Electives                    |   | 18 sem. hrs.         |
|                                       | <b>TOTAL</b>  | <b>120 sem. hrs.</b> |

\*A grade of C- or better must be obtained in all CSCI, MATH, and STAT course.  
 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 Research Writing (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  |                      |
|                                       | 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)                                 |                      |
|                                       | STAT300 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.         |
|                                       | <b>TOTAL</b>   | <b>120 sem. hrs.</b> |

\*A grade of C- or better must be obtained in all CSCI, MATH, and STAT course.

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 Research Writing (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)                             |               |
| CSCI311                               | 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)                           |               |
| STAT300                               | 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 CSCI, MATH, and STAT course.

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                               | Research Writing (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)                                 |               |
| STAT300                           | App. Stats/Data Analysis (3)                   |               |
| MATH370                           | Discrete II (3)                                |               |
| IV. Required Science Component ** |  | 4 sem. hrs.   |
| V. Free Electives                 |  | 17 sem. hrs.  |
|                                   | TOTAL  | 120 sem. hrs. |

\*A grade of C- or better must be obtained in all CSCI, MATH, and STAT course.

\*\*Must complete 30 hours of combined math and science

NOTE: At least 42 credits must consist of advanced coursework.

At most 12 CSCI credits may be transferred into program.

**WEB AND MOBILE APPLICATION DEVELOPMENT Track**

|                                       |  |              |
|---------------------------------------|--|--------------|
| I. General Education Component        |  | 42 sem. hrs. |
| A. Skills                             |  | 12 sem. hrs. |
| ENGL101                               | College Writing Skills (3)                           |              |
| ENGL102                               | Research Writing (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 Dev (3)                                 |              |
| CSCI280                               | PC System Op & Admin (3)                             |              |
| CSCI302                               | Intro to HCI (3)                                     |              |
| CSCI313                               | Data Base Management (3)                             |              |
| CSCI323                               | Web Development (3)                                  |              |
| CSCI325                               | Web Server Administration (3)                        |              |

|      |  |                              |               |
|------|--|------------------------------|---------------|
|      | CSCI374                                      | Mobile App Dev (3)           |               |
|      | CSCI423                                      | Web Dev Engineering (3)      |               |
| C.   | Computer Science Elective                    |                              | 12 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)   |               |
|      | STAT300                                      | 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 CSCI, MATH, and STAT course.

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, Victoria Hedderick, Meg Larson, Lee Ann Leech, Susan Maloney, Amy McClune, Lucille Morrison, Jill Rodgers, Thomas White.

**The baccalaureate program in nursing is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750 Washington, DC 20001, Telephone: 202-887-6791, www.ccnaccreditation.org**

### DEPARTMENT OF NURSING MISSION

Consistent with the Pennsylvania State System of Higher Education and Edinboro University, the mission of the Edinboro University Department of Nursing is to prepare the highest quality professional nurses to meet the local and global holistic healthcare needs of individuals, families, and communities.

### DEPARTMENT OF NURSING VISION

Edinboro University Nursing graduates will be healthcare leaders and exemplars in nursing excellence and scholarship.

### DEPARTMENT OF NURSING VALUES

The Edinboro University Department of Nursing is committed to creating an environment that encourages evidence-based practice and life-long learning. We strive to prepare nurse leaders who facilitate nursing care with integrity, accountability, and respect.

### PROGRAM DESCRIPTION

The 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.

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 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.

Graduates of the program are prepared to function as professional nurses in a variety of health care settings.

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 of Nursing approves the student's application.

The Edinboro University Department of Nursing cannot guarantee authorization by the State Board of Nursing to students with conviction of a misdemeanor, felony, felonious act or illegal act associated with alcohol or illegal substances.

### PHILOSOPHY OF THE BACCALAUREATE NURSING PROGRAM

Edinboro University Nursing faculty believe that a registered nurse is a healthcare professional who identifies and treats human responses to health and illness and maximizes the individual's health potential through the application of scientific knowledge. A baccalaureate education prepares nurses to incorporate theory and research based knowledge in the provision of care to individuals, families, and communities. The professional baccalaureate nurse also designs, manages, and coordinates healthcare as a patient advocate and educator for health promotion and risk reduction across the life span.

The overarching concepts that drive the Edinboro University baccalaureate nursing curriculum are based upon the American Association of Colleges of Nursing (AACN), Essentials of Baccalaureate Nursing Education for Professional Nursing (2008), and the principles of the Quality and Safety Education for Nurses (QSEN) initiative and other professional guidelines and standards.

These concepts and definitions along with the expected student outcomes include:

### LEADERSHIP/MANAGEMENT

- **Definition:** Influencing and motivating nursing and inter-professional colleagues to promote cohesion and productivity to foster teamwork which advocates and empowers patients and peers.
- **Outcome:** The graduate collaborates effectively with members of the interprofessional health care team to promote optimal patient outcomes.

### EVIDENCE BASED PRACTICE

- **Definition:** Integration of critical thinking and clinical evidence from systematic research to care for patients, families, and communities.
- **Outcome:** The graduate integrates knowledge from nursing and the sciences as a foundation for evidenced-based practice in maintaining, restoring and optimizing health.

### TECHNOLOGY UTILIZATION

- **Definition:** Effective use of technology to collect and communicate information to support clinical decision-making skills and evidence-based practice.
- **Outcome:** The graduate utilizes information technology to communicate information; minimize risk of harm; and facilitate clinical decision making to promote optimal patient outcomes.

**HEALTHCARE POLICY**

- **Definition:** Frameworks established in collaboration with other healthcare professionals which maintain and improve evidence-based clinical decision making and health care delivery.
- **Outcome:**
  - o The graduate recognizes nurse leadership roles which advocate for healthcare policy laws and regulations that optimize the care of individuals, families, and communities.
  - o The graduate aligns nursing care with established guidelines, regulations and laws to reduce health disparities.

**COMMUNICATION**

- **Definition:** The effective exchange of information between two or more individuals which facilitates mutual respect and shared decision making to achieve optimal outcomes.
- **Outcome:** The graduate disseminates information which educates and empowers individuals, healthcare providers, and communities to promote optimal health outcomes.

**FACILITATOR OF CARE**

- **Definition:** Integration of coordinated, compassionate care based on respect, values, preferences, needs, and diversity with active involvement of patients, families, or designees in the health care process.
- **Outcomes:**
  - o The graduate facilitates appropriate interventions for health promotion, risk reduction, and disease prevention for individuals, families, and communities across the lifespan.
  - o The graduate implements holistic, patient-centered care across the life-span in various health settings.

**PROFESSIONAL ROLE DEVELOPMENT**

- **Definition:** Life long process of knowledge, skill and attitude acquisition related to professionalism and the fundamental values of nursing including altruism, autonomy, human dignity, integrity, and social justice.
- **Outcomes:**
  - o The graduate enacts professional behaviors which encompass integrity, accountability and respect with a commitment to lifelong learning.
  - o The graduate presents self in a professional manner consistent with the American Nurses Association Scope and Standards of Practice and Code of Ethics.

**PROFESSIONAL & CLINICAL JUDGMENT**

- **Definition:** The ability to determine patient needs and concerns by drawing from nursing and scientific knowledge and applying appropriate interventions.
- **Outcome:** The graduate utilizes purposeful, informed thinking to optimize health outcomes.

**ADDITIONAL COSTS**

During the spring of the freshman year uniforms and other accessories must be ordered. Nursing students 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 standardized testing and skill module requirements (i.e. Assessment Technologies Inc. [ATI]). During the senior year students are required to purchase, attend, and fully participate in an onsite NCLEX preparation course.

**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)              |                     |
|                 | <b>TOTAL</b>                       | <b>34 sem. hrs.</b> |
| <b>PROGRAMS</b> |                                    |                     |
| NURS330         | Adult Health Nursing I (3)         |                     |

Edinboro Univesrity offers two options to a B.S.N. degree; the traditional four-year program for undergraduate students and the three-semester accelerated B.S.N. program for students already holding a baccalaureate degree.

## 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                        | Research Writing (3)  |
|     | STAT260                        | 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 (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  |
|     | BIOL104                        | Intro to Human Genetics (3)   |
| II. | Required Nursing Courses       | 44.5 sem. hrs.  |
|     | NURS101                        | Intro to Nursing (1)  |
|     | NURS230                        | Nursing Assessment (2.5)  |
|     | NURS231                        | Nursing Assessment Clinical (1)   |
|     | NURS240                        | Nursing Interventions (2)   |
|     | NURS241                        | Nursing Interventions Clinical (1)  |
|     | NURS245                        | Basic Nursing Care Clinical (2)   |
|     | NURS330                        | Adult Health Nursing I (3)  |
|     | NURS331                        | Adult Health Nursing Clinical (3.5)   |
|     | NURS332                        | Adult Health Nursing Simulation (0.5)                                       |
|     | NURS340                        | Maternal Child Health Nursing (3)   |

|   |  |                      |
|---|--|----------------------|
| NURS341                                 | Maternal Child Nursing Clinical (1)          |                      |
| NURS350                                 | Pediatric Nursing (3)                        |                      |
| NURS351                                 | Pediatric Nursing Clinical (1)               |                      |
| NURS352                                 | Mat/Child/Ped Simulation (0.5)               |                      |
| NURS400                                 | Nursing Leadership (2)                       |                      |
| NURS433                                 | Adult Health Nursing II (2)                  |                      |
| NURS431                                 | Adult Health Nursing Clinical (2)            |                      |
| NURS432                                 | Adult Health Nursing II Simulation (0.5)     |                      |
| NURS440                                 | Community Health Nursing (2)                 |                      |
| NURS441                                 | Community Health Nursing Clinical (1)        |                      |
| NURS450                                 | Psyc/Behavioral Health Nursing (3)           |                      |
| NURS453                                 | Psyc/Behavioral Health Nursing Clinical (1)  |                      |
| NURS452                                 | Comm/Psyc/Behavioral Health Simulation (0.5) |                      |
| NURS415                                 | Research and Evidence Based Practice (3)     |                      |
| NURS498                                 | Nursing Capstone (2.5)                       |                      |
| <b>III. Required Supporting Courses</b> |  | <b>28 sem. hrs.</b>  |
| BIOL312                                 | Human Physiology/Anatomy I (4)               |                      |
| BIOL313                                 | Human Physiology/Anatomy II (4)              |                      |
| BIOL318                                 | Clinical Microbiology (4)                    |                      |
| NUTR310                                 | Nutrition (3)                                |                      |
| PSYC319                                 | Psych of Adulthood and Aging (3)             |                      |
| NUHL250                                 | Health Promotion/Life Span (3)               |                      |
| NUHL320                                 | Pharmacology (3)                             |                      |
| NUHL432                                 | Pathophysiology (4)                          |                      |
| <b>IV. Free Electives</b>               |  | <b>4.5 sem. hrs.</b> |
|   | <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)           |                     |
| NURS101 | Introduction to Professional Nursing (1) |                     |
|         | <b>TOTAL</b>                             | <b>15 sem. hrs.</b> |

**Second Semester**

|         |                                 |                       |
|---------|---------------------------------|-----------------------|
| ENGL102 | Research Writing (3)            |                       |
| BIOL104 | Intro Human Genetics (3)        |                       |
| BIOL313 | Human Phys & Anatomy II (4)     |                       |
| NURS230 | Nursing Assessment (2.5)        |                       |
| NURS231 | Nursing Assessment Clinical (1) |                       |
| PSYC317 | Developmental Psychology (3) or |                       |
| PSYC319 | Psych of Adulthood/Aging (3)    |                       |
|         | <b>TOTAL</b>                    | <b>16.5 sem. hrs.</b> |

**Third Semester**

|         |                                    |                     |
|---------|------------------------------------|---------------------|
| PSYC317 | Developmental Psychology (3) or    |                     |
| PSYC319 | Psych of Adulthood/Aging (3)       |                     |
| NURS240 | Nursing Interventions (2)          |                     |
| NURS241 | Nursing Interventions Clinical (1) |                     |
| BIOL318 | Microbiology (4)                   |                     |
| NUHL435 | Pathophysiology (4)                |                     |
| NUHL320 | Pharmacology (3)                   |                     |
|         | <b>TOTAL</b>                       | <b>13 sem. hrs.</b> |

**Fourth Semester**

|         |  |                     |
|---------|--|---------------------|
| NURS245 | Basic Nursing Care Clinical (2)          |                     |
| NUHL350 | Health Promotion Across the Lifespan (3) |                     |
| BIOL318 | Clinical Microbiology (4)                |                     |
| CSCI104 | Essential Computing I (3)                |                     |
| SOC100  | Principles of Sociology (3)              |                     |
| NUTR310 | Nutrition (3)                            |                     |
|         | <b>TOTAL</b>                             | <b>18 sem. hrs.</b> |

**Fifth Semester\***

|         |   |                       |
|---------|---|-----------------------|
| NURS340 | Maternal Child Health Nursing (3)                     |                       |
| NURS341 | Maternal Child Health Nursing Clinical (1)            |                       |
| NURS350 | Pediatric Nursing (3)                                 |                       |
| NURS351 | Pediatric Nursing Clinical (1)                        |                       |
| NURS352 | Maternal Child and Pediatric Nursing Simulation (0.5) |                       |
| CORE 2  | World Civ (3)   |                       |
| CORE6   | Ethics (3)  |                       |
|         | <b>TOTAL</b>  | <b>14.5 sem. hrs.</b> |

**Sixth Semester\***

|         |                                       |                     |
|---------|---------------------------------------|---------------------|
| NURS330 | Adult Health Nursing (3)              |                     |
| NURS331 | Adult Health Nursing Clinical (3.5)   |                     |
| NURS332 | Adult Health Nursing Simulation (0.5) |                     |
| STAT260 | Statistics (3)                        |                     |
| CORE1   | Artistic Expression (3)               |                     |
|         | Free Elective (2)                     |                     |
|         | <b>TOTAL</b>                          | <b>15 sem. hrs.</b> |

**Seventh Semester\***

|         |  |                       |
|---------|--|-----------------------|
| NURS400 | Nursing Leadership (2)   |                       |
| NURS440 | Community Health Nursing (2)                                     |                       |
| NURS441 | Community Health Nursing Clinical (1)                            |                       |
| NURS450 | Psychiatric & Behavioral Health Nursing (3)                      |                       |
| NURS451 | Psychiatric & Behavioral Health Nursing Clinical (1)             |                       |
| NURS452 | Community/Psychiatric/Behavioral Health Nursing Simulation (0.5) |                       |
| NURS415 | Research and Evidence Based Practice (3)                         |                       |
| CORE3   | American Civilizations (3)                                       |                       |
|         | <b>TOTAL</b>   | <b>15.5 sem. hrs.</b> |

**Eighth Semester\***

|         |  |                       |
|---------|--|-----------------------|
| NURS430 | Adult Health Nursing II (2)              |                       |
| NURS431 | Adult Health Nursing II Clinical (2)     |                       |
| NURS432 | Adult Health Nursing II Simulation (0.5) |                       |
| NURS499 | Nursing Capstone (2.5)                   |                       |
| DIST1   | Humanities and Fine Arts (3)             |                       |
|         | Free Electives (2.5)                     |                       |
|         | <b>TOTAL</b>                             | <b>12.5 sem. hrs.</b> |

\*Fifth and sixth semesters are interchangeable, and seventh and eighth semesters are interchangeable.

**ADMISSIONS REQUIREMENTS**

**Freshmen Students**

1. Total SAT scores of at least 1030 (Math ≥500; Reading ≥500) or ACT score of 22.
2. Successful completion of High School courses with a “B” or higher Biology, Chemistry, Algebra I & II, and Geometry.
3. High School GPA of 3.00 or higher

**PROGRESSION REQUIREMENTS FOR NURSING MAJORS**

1. Maintain GPA of 3.0 to progress to next level (i.e. freshman to sophomore; sophomore to junior; junior to senior).
2. Complete all required prerequisites from one level to the next.
3. “C” or higher grade in all nursing courses
4. In order to progress in the nursing program, students are required to meet the following requirements (\*These requirements MUST be submitted by JULY 31st 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
  - FBI clearance
  - current CPR certification

5. 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 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 3.0

## Bachelor of Science in Nursing Degree (B.S.N.)

### ACCELERATED BSN 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.

### ACCELERATED NURSING PROGRAM

The Accelerated 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 (B.S.N.) 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.

- General Education Requirements and Required Supporting Courses – From first Baccalaureate Degree
- Required Nursing Courses 40.5 sem. hrs.
 

|         |   |
|---------|---|
| NURS400 | Nursing Leadership (2)                              |
| NURS415 | Research and Evidence Based Practice (3)            |
| NURS260 | Accelerated Fundamentals of Nursing (4)             |
| NURS261 | Accelerated Fundamentals of Nursing Clinical (3)    |
| NURS360 | Accelerated Adult Health Nursing I (3)              |
| NURS361 | Accelerated Adult Health Nursing I Clinical (3.5)   |
| NURS362 | Accelerated Adult Health Nursing I Simulation (0.5) |
| NURS370 | Accelerated Maternal Child Nursing (3)              |
| NURS371 | Accelerated Maternal Child Nursing Clinical (1)     |
| NURS380 | Accelerated Pediatric Nursing (3)                   |
| NURS381 | Accelerated Pediatric Nursing Clinical (1)          |
| NURS382 | Accelerated Maternal/Child/Ped Simulation (0.5)     |
| NURS480 | Accelerated Adult Health Nursing II (2)             |
| NURS483 | Accelerated Adult Health Nursing II Clinical (3)    |

|  |  |
|--|--|
| NURS462                                      | Accelerated Adult Health Nursing II Simulation (0.5)                           |
| NURS440                                      | Community Health Nursing (2)   |
| NURS472                                      | Accelerated Community Health Nursing Clinical (1)                              |
| NURS453                                      | Psychiatric & Behavioral Health Nursing (3)                                    |
| NURS481                                      | Accelerated Psychiatric & Behavioral Health Nursing Clinical (1)               |
| NURS482                                      | Accelerated Community Psychiatric & Behavioral Health Nursing Simulation (0.5) |
| III. Required Supporting Course 10 sem. hrs. |  |
| NUTR310                                      | Nutrition (3)  |
| NUHL320                                      | Pharmacology (3)   |
| NUHL435                                      | Pathophysiology (4)  |
| TOTAL 50.5 sem. hrs.                         |  |

Note: All credits from the first baccalaureate degree are accepted as part of the Accelerated Nursing Program.

### PROGRAM OF STUDY

#### Fall Semester

|                    |  |
|--------------------|--|
| NURS260            | Accelerated Fundamentals of Nursing (4)          |
| NURS261            | Accelerated Fundamentals of Nursing Clinical (3) |
| NUHL320            | Pharmacology (3)                                 |
| NUHL435            | Pathophysiology (4)                              |
| TOTAL 14 sem. hrs. |  |

#### Spring Semester

|                      |  |
|----------------------|--|
| NUTR310              | Nutrition (3)  |
| NURS360              | Accelerated Adult Health Nursing I (3)                 |
| NURS361              | Accelerated Adult Health Nursing I Clinical (3.5)      |
| NURS362              | Accelerated Adult Health Nursing I Simulation (0.5)    |
| NURS370              | Accelerated Maternal Child Health Nursing (3)          |
| NURS371              | Accelerated Maternal Child Health Nursing Clinical (1) |
| NURS380              | Accelerated Pediatric Nursing (3)                      |
| NURS381              | Accelerated Pediatric Nursing Clinical (1)             |
| NURS382              | Accelerated Maternal/Child/Pediatric Simulation (0.5)  |
| TOTAL 18.5 sem. hrs. |  |

#### Fall Semester

|                      |  |
|----------------------|--|
| NURS400              | Nursing Leadership (2)   |
| NURS415              | Research and Evidence Based Practice (3)                                       |
| NURS480              | Accelerated Adult Health Nursing II (2)  |
| NURS483              | Accelerated Adult Health Nursing II Clinical (3)                               |
| NURS462              | Accelerated Adult Health Nursing II Simulation (0.5)                           |
| NURS440              | Community Health Nursing (2)   |
| NURS472              | Accelerated Community Health Nursing Clinical (1)                              |
| NURS453              | Psychiatric & Behavioral Health Nursing (3)                                    |
| NURS481              | Accelerated Psychiatric & Behavioral Health Nursing Clinical (1)               |
| NURS482              | Accelerated Community Psychiatric & Behavioral Health Nursing Simulation (0.5) |
| TOTAL 18 sem. hrs.   |  |
| TOTAL 50.5 sem. hrs. |  |

**ADMISSION REQUIREMENTS**

1. Baccalaureate degree from a regionally accredited institution.
2. Grade point average of 3.00 upon completion of the first baccalaureate degree.
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.

Due to the rigor and fast paced nature of this program, students who have performed below standard and have been released from another nursing program OR have an academic history of multiple withdrawals or failures (D/F) will not be considered for the program.

**PROGRESSION REQUIREMENTS**

1. Maintain GPA of 3.0 to progress to next level (i.e. 1st semester to 2nd semester, 2nd semester, to 3rd semester).
2. “Complete all required prerequisites from one level to the next.
3. “C” or higher grade in all nursing course.
4. In order to progress in the nursing program, students are required to meet the following requirements (\*These requirements MUST be submitted by JULY 31st 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
  - FBI clearance
  - Current CPR certification.
5. 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 3.0 grade point average.

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## Physics and Technology Department

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**FACULTY:** Karim Hossain, James R. Kirk, Peter Kuvshnikov, Richard J. Lloyd, Abdur Rahman

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 Cooper Hall of Science. The department offers four degree programs and three academic minors.

1. The Bachelor of Science in Physics has a degree in Physics and a concentration in Cooperative Engineering Physics:
  - a. The Physics program 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. This program is also aligned with the “4+1” option to pursue an MS in Engineering Science and Mechanics at PSU-University Park. See note 2 below.

- b. The Cooperative Engineering Physics concentration 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 accelerated agreement between Penn State University and Edinboro University, students in the BS Physics program at Edinboro are eligible, upon recommendation from the department, for summer research opportunities up to 3 credits 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 advanced physics and mathematics courses taken at Edinboro University that are not required for BS Physics toward a master’s degree for participation in summer research.
  3. The Bachelor of Science in Applied Technical Leadership progresses students from technology positions within a firm to positions that require leadership and/or analytical and financial decision-making for their employers. The program houses two concentrations, a BS in Applied Technical Leadership (ATL) or a BS in Industrial and Engineering Administration (IdEA). 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.
    - a. BS in Applied Technical Leadership specifically focuses on leadership and management and is offered entirely online.
    - b. BS in Industrial and Engineering Administration specifically focuses on skills needed for financial decision making and other analytical skills related to running a business in middle or upper management.
  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 has two separate tracks:
    - a. Applied Technology track allows students to transfer a block of coursework (12-27 credits) from accredited technical schools. The program also provides students applied skills in quality control and technical reasoning. A background in basic business and economics is also a focus.
    - b. Electric Utilities Technology track is a program offered in cooperation with FirstEnergy (Penelec) and prepares students to be electric utility linemen. A background in multicultural sensitivity, personal finance and a set of technical skills in job appropriate areas is the focus of this program.
    - c. The Aeronautical Science Track is offered in cooperation with the North Coast Flight School at the Erie airport. Students are given the opportunity to acquire their commercial pilot license in two years.
  7. Students majoring in other areas may choose to complete an academic minor in Astronomy, Physics, Applied Physics, or Manufacturing Engineering Technology.

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.

## Quality Assurance Technician Certificate

This Quality Assurance certificate program will introduce students to the concepts and procedures involved with maintaining a consistently high level of quality in manufactured products. The curriculum will focus on the planned and systematic activities implemented in a quality system so that quality requirements for a product or service fulfill the goals of the manufacturer and the customer. Students will understand the systematic measurement, comparison with a standard, monitoring of processes and an associated feedback loop that confers error prevention. Methods for establishing and implementing regulations and guidelines for quality and safety are introduced as well as essential quality tools and when it is appropriate to use them. The program is offered during evening hours, and is designed to be completed in two or more semesters followed by a three-hour internship in quality assurance working directly in their field.

### I. Course Requirements 15 sem. hrs.

|          |                                     |
|----------|-------------------------------------|
| CSCI 104 | Essential Computing I (3)           |
| PHYS181  | Principles of Physics (3)           |
| ENGR 201 | Engineering Graphics and Design (3) |
| MFGT 201 | Introduction to Quality Control (3) |
| MFGT 296 | Internship in Manufacturing (3)     |

## 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 AERONAUTICAL SCIENCE

The Associates of Applied Science in Aeronautical Science program emphasizes courses that prepare graduates of the program for careers in aviation as professional pilots. Graduates gain the required knowledge in the areas of mathematics, physics, communications, and aeronautics in order to immediately pursue a career as a commercial pilot. The flight and ground school training is provided by a flight school certified by the Federal Aviation Administration or, alternatively, this training may be satisfied by possession of a current license/certification at the appropriate level. This portion of the training has additional associated costs that depend on how the flight training requirements are satisfied.



Graduates of the associate program will earn the following in technical flight training which may be offered on or off campus and has associated costs:

- Private Pilot License
- Complex Endorsement
- Instrument Pilot Rating
- Commercial Pilot License

Graduates of the Associate of Applied Science in Aeronautical Science will:

- Satisfactorily complete flight certification through the commercial pilot rating
- Be proficient in analytical and quantitative computations appropriate to the aeronautical environment
- Develop communications skills appropriate to meet the demands of being a commercial pilot
- Assess and operationalize a management and business plan in an aeronautical environment
- Recognize weather patterns that may affect flight safety and take steps to mitigate them

|  |                             |                    |
|--|-----------------------------|--------------------|
| I. General Education Requirements  |                             | 21 sem. hrs.       |
| A. Skills  |                             | 12 sem. hrs.       |
| ENGL101  | College Writing Skills      |                    |
| MATH105  | College Algebra             |                    |
| CSCI104  | Essential Computing I       |                    |
| COMM107  | Public Speaking             |                    |
| B. Core  |                             | 9 sem. hrs.        |
| (Students must complete Core 6. PHIL 240 is recommended, In addition, one course will 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 (or Core 6)   |                             |                    |
| II. Aeronautical Science Major   |                             | 27 sem. hrs.       |
| A. Applied Practice Courses #  |                             | 15 sem. hrs.       |
| ECON220  | Microeconomics (3)          |                    |
| BUAD160  | Business in Society (3)     |                    |
| PHYS181  | Principles of Physics (3)   |                    |
| MATH106  | Trigonometry (3)            |                    |
| GEOS320  | Meteorology (3)             |                    |
| # A course grade of C or better is required in all courses   |                             |                    |
| B. Applied Technical Field Training*   |                             | 18 sem. hrs.       |
| AERO220  | Private Pilot Ground (3)    |                    |
| AERO240  | Instrument Pilot Ground (3) |                    |
| AERO260  | Commercial Pilot Ground (3) |                    |
| AERO320  | Private Pilot Flight (3)    |                    |
| AERO340  | Instrument Pilot Flight (2) |                    |
| AERO360  | Commercial Pilot Flight (4) |                    |
| *Credits to be awarded in AERO 220/320 or 260/360 for successful completion of private/instrument/commercial pilot and ground school/flight training or possession of a current private/instrument/commercial pilot license, respectively. |                             |                    |
| III. Free Electives  |                             | 6 sem. hrs.        |
|  | <b>TOTAL</b>                | <b>60 sem hrs.</b> |

**ASSOCIATE OF APPLIED SCIENCE - AERONAUTICAL SCIENCE (Suggested sequence)**

**First Semester**

|          |                           |
|----------|---------------------------|
| BUAD 160 | Business in Society (3)   |
| CSCI104  | Essential Computing I (3) |
| AERO220  | Private Pilot Ground (3)  |
| AERO320  | Private Pilot Flight (3)  |
| ECON220  | Microeconomics (3)        |
|          | <b>TOTAL</b>              |
|          | <b>15 sem. hrs.</b>       |

**Second Semester**

|         |                             |
|---------|-----------------------------|
| MATH105 | College Algebra (3)         |
| ENGL101 | College Writing Skills (3)  |
| AERO340 | Instrument Pilot Flight (2) |
| COMM107 | Public Speaking (3)         |
| AERO240 | Instrument Pilot Ground (3) |
|         | <b>TOTAL</b>                |
|         | <b>14 sem. hrs.</b>         |

**Third Semester**

|         |                           |
|---------|---------------------------|
| MATH106 | Trigonometry (3)          |
| PHYS181 | Principles of Physics (3) |
| GEOS320 | Meteorology (3)           |
|         | Gen. Ed (6)               |
|         | <b>TOTAL</b>              |
|         | <b>15 sem. hrs.</b>       |

**Fourth Semester**

|                      |                                  |
|----------------------|----------------------------------|
| PHIL 240 (or Core 6) | Introduction to Moral Issues (3) |
| AERO260              | Commercial Pilot Ground (3)      |
| AERO360              | Commercial Pilot Flight (4)      |
|                      | Electives (6)                    |
|                      | <b>TOTAL</b>                     |
|                      | <b>16 sem. hrs.</b>              |

**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 OR  |
|      | COMM298   | Business and Professional Communication                                 |
| B.   | Core  | 9 sem. hrs.   |
|      | (Core 6 is required. Core 6 PHIL 240 is recommended, One course will 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)  |
|      | PHYS101   | Physical Science (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 courses are suggested   |   |
|      | MGMT260   | Fund. Mgmt/Mktg (3)   |
|      | ACCT215   | Accounting I (3)  |
|      | ACCT220   | Accounting II (3)   |
|      | BUAD260   | Business Law (3)  |
|      | ECON225   | Principles of Microeconomics (3)  |

Note: These courses complete a minor in Business Administration

**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) OR  |
| COMM298 | Business and Professional Communication (3)                                 |
|         | Gen. Ed. Electives (6)  |
|         | <b>TOTAL</b> 18 sem. hrs.   |

**Second Semester**

|         |                                  |
|---------|----------------------------------|
| ECON220 | Microeconomics (3)               |
| BUAD160 | Business in Society (3)          |
| MFG 201 | Quality Control (3)              |
| PHYS101 | Physical Science (3)             |
| PHIL240 | Introduction to Moral Issues (3) |
|         | <b>TOTAL</b> 15 sem. hrs.        |

**ASSOCIATE OF APPLIED SCIENCE DEGREE  
ELECTRIC UTILITY TECHNOLOGY**

The Associates of Applied Science in Electric Utility Technology program emphasizes courses that prepare graduates of the program for careers as a lineworker or substation electrician in the electric utility industry. The program is unique in that it combines classroom learning with hands-on training. Graduates gain the required knowledge in the areas of mathematics, physics, communications, business, and electronics in order to immediately pursue a career as an electric utilities lineman. The A.A.S. program provides an opportunity for those with related training to complete a relevant associate degree. The A.A.S. program will be attractive to students currently pursuing Power Systems Institute (PSI) training provided by FirstEnergy. Graduates of the Associate of Applied Science in Electric Utilities Technology will be able to:

- Satisfactorily complete the Power Systems Institute (PSI) and related field experience
- To become proficient in analytical and quantitative computations appropriate to the occupational environment
- Develop communications skills appropriate to a technical setting
- Assess and operationalize a management and business plan in a technological environment, and handle personal finances responsibly

|     |   |                                       |
|-----|---|---------------------------------------|
| I.  | General Education Requirements  | 21 sem. hrs.                          |
| A.  | Skills  | 12 sem. hrs.                          |
|     | ENGL101   | College Writing Skills (3)            |
|     | MATH104   | Finite Math (3)                       |
|     | CSCI104   | Essential Computing I (3)             |
|     | COMM107   | Public Speaking (3)                   |
| B.  | Core  | 9 sem. hrs.                           |
|     | Students must complete ECON101 Wealth Building and Money Management in Core 3, PHIL240 in Core 6, and HIST205Intro to Multicultural America in Core 5 |                                       |
| II. | Applied Technology Major  | 39 sem. hrs.                          |
| A.  | Applied Practice Courses  | 19 sem. hrs.                          |
|     | BUAD160   | Business in Society (3)               |
|     | PHYS101   | Physical Science (3)                  |
|     | PHYS311   | Technical Electronics I (4)           |
|     | PHYS314   | Electronic Troubleshooting (3)        |
|     | EUT290  | Power Distribution & Transmission (3) |
|     | COMM325   | Interpersonal Communication (3)       |
| B.  | Applied Technical Field Training*   | 20 sem. hrs.                          |
|     | *Credits to be awarded in EUT101, EUT102, EUT203, and EUT204 for successful completion of the Power Systems Institute (PSI) provided by FirstEnergy.  |                                       |

**ASSOCIATE OF APPLIED SCIENCE - ELECTRIC  
UTILITY TECHNOLOGY  
(Suggested sequence)**

**First Semester**

|         |                                 |
|---------|---------------------------------|
| EUT101  | Overhead Lines Technology I (5) |
| ENGL101 | College Writing Skills (3)      |
| MATH104 | Finite Math (3)                 |
| CSCI104 | Essential Computing (3)         |
|         | <b>TOTAL</b> 14 sem. hrs.       |

**Second Semester**

|         |                                  |
|---------|----------------------------------|
| EUT102  | Overhead Lines Technology II (5) |
| PHYS101 | Physical Science (3)             |
| PHYS311 | Technical Electronics I (4)      |
| COMM107 | Public Speaking (3)              |
|         | <b>TOTAL</b> 15 sem. hrs.        |

**Third Semester**

|         |                                       |
|---------|---------------------------------------|
| EUT203  | Overhead Lines Technology III (5)     |
| EUT290  | Power Distribution & Transmission (3) |
| COMM325 | Interpersonal Communication (3)       |
| HIST205 | Intro to Multicultural America (3)    |
|         | <b>TOTAL</b> 14 sem. hrs.             |

**Fourth Semester**

|         |  |
|---------|--|
| EUT204  | Overhead Lines Technology IV (5)       |
| PHYS314 | Electronic Troubleshooting (3)         |
| BUAD160 | Business in Society (3)                |
| PHIL240 | Intro to Moral Issues (3)              |
| ECON101 | Wealth Building & Money Management (3) |
|         | <b>TOTAL 17 sem. hrs.</b>              |

**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.

**Physics**

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. Physics Requirements 47 sem. hrs.

|   |  |
|---|--|
| A. Required Physics Foundation              |  |
| PHYS150                                     | Physics Orientation (2)                    |
| 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)         |
| ENGR201                                     | Engineering Graphics (3)                   |
| ENGR303                                     | Engineering Statics (3)                    |
| ENGR304                                     | Engineering Dynamics (3)                   |
| PHYS420                                     | Mechanics I (3)                            |
| PHYS425                                     | Astrophysics I (3)                         |
| PHYS430                                     | Electricity and Magnetism I (3)            |
| PHYS441                                     | Thermal Physics (3)                        |
| PHYS453                                     | Quantum Physics (3)                        |
| PHYS449                                     | Mathematical Methods in Physics (3)        |
| B. Required Supporting Courses 13 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)*            |
| CSCI130                                     | Principles of Programming (3)              |
| *counted in the general education           |  |

V. Free electives to total 120 semester hours

Students who wish to pursue graduate school in physics or the MS in Engineering Science and Mechanics (MS-ESM) at PSU should consider selections from the following courses. Up to 6 credits of these courses transfer for credit in the MS-ESM at PSU.

|             |                                  |
|-------------|----------------------------------|
| 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)      |

**BACHELOR OF SCIENCE – PHYSICS  
(Suggested Eight-Semester Sequence)****First Semester**

|          |                                 |
|----------|---------------------------------|
| ENGR 201 | Engineering Graphics (3)        |
| PHYS150  | Physics Orientation (2)         |
| ENGL101  | College Writing Skills (3)      |
|          | General Education Electives (6) |
|          | <b>TOTAL 14 sem. hrs.</b>       |

**Second Semester**

|         |                                 |
|---------|---------------------------------|
| PHYS320 | University Physics I (4)        |
| MATH211 | Calculus I (4)                  |
| ENGL102 | Research Writing (3)            |
| PHYS322 | Physical Measurements Lab I (1) |
|         | General Education Core (3)      |
|         | <b>TOTAL 15 sem. hrs.</b>       |

**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)  |
|         | <b>TOTAL 15 sem. hrs.</b>        |

**Fourth Semester**

|         |                            |
|---------|----------------------------|
| PHYS325 | Modern Physics (3)         |
| MATH311 | Calculus III (4)           |
| ENGR304 | Engineering Dynamics (3)   |
|         | General Education Core (6) |
|         | <b>TOTAL 16 sem. hrs.</b>  |

**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 16 sem. hrs.</b>          |

**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 13-14 sem. hrs.</b>    |

**Seventh Semester**

|         |                                       |
|---------|---------------------------------------|
| PHYS425 | Astrophysics I (3)                    |
| PHYS305 | Classical Physics Laboratory I (2) or |
| PHYS405 | Modern Physics Laboratory I (2)       |
|         | Free electives (6)                    |
|         | <b>TOTAL 14 sem. hrs.</b>             |

**Eighth Semester**

|         |                                    |
|---------|------------------------------------|
| PHYS453 | General Education Distribution (3) |
|         | Quantum Physics (3)                |
|         | General Education Distribution (3) |
|         | Free Electives (6)                 |
|         | <b>TOTAL 15 sem. hrs.</b>          |

## Physics-Materials Science

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. Foundation in Physics and Materials 35 sem. hrs.

|         |                                     |
|---------|-------------------------------------|
| 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)  |
| PHYS415 | Solid State Physics (3)             |
| PHYS441 | Thermal Physics (3)                 |
| PHYS449 | Mathematical Methods in Physics (3) |
| MACS210 | Intro to Materials Science (4)      |
| MFGT105 | Engineering Materials (3)           |
| MFGT306 | Strength of Materials Lab (3)       |

Choose one of the following:

|         |                               |
|---------|-------------------------------|
| PHYS420 | Mechanics I (3)               |
| PHYS430 | Electricity and Magnetism (3) |
| PHYS453 | Quantum Physics (3)           |
| ENGR303 | Engineering Statics (3)       |

III. Required Supporting Courses 25 sem. hrs.

|                     |  |
|---------------------|--|
| MATH211             | Analytical Geometry and Calculus I (4)*  |
| MATH212             | Analytical Geometry and Calculus II (4)  |
| MATH311             | Analytical Geometry and Calculus III (4) |
| MATH275             | Linear Algebra (3)                       |
| CHEM240             | Principles of Chemistry I (4)*           |
| CHEM241             | Principles of Chemistry II (4)*          |
| CHEM530             | Physical Chemistry I (4)                 |
| CHEM533 OR CHEM 420 | (3)                                      |
| CHEM330             | Organic Chemistry I (4)*                 |
| CHEM331             | Organic Chemistry II (4)                 |
| CSCI130             | Principles of Programming I (3)          |

\*counted in the general education

IV. Free electives 14 sem. hrs.  
Recommended to enhance preparation for career in material science: CHEM280, ENGR201, ENGR304, PHYS312  
TOTAL 120 sem. hrs.

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### BACHELOR OF SCIENCE – PHYSICS MATERIALS SCIENCE (Suggested Eight-Semester Sequence)

#### First Semester

|         |                               |
|---------|-------------------------------|
| ENGL101 | College Writing Skills (3)    |
| MATH211 | Calculus I (4)                |
| CHEM240 | Principles of Chemistry I (4) |
|         | General Education Course (3)  |
|         | Free Elective (3)             |

TOTAL 17 sem. hrs.

#### Second Semester

|         |                                 |
|---------|---------------------------------|
| ENGL102 | Research Writing (3)            |
| CHEM241 | Principles of Chemistry II (4)  |
| MATH212 | Calculus II (4)                 |
| PHYS320 | University Physics I (4)        |
| PHYS322 | Physical Measurements Lab I (1) |

TOTAL 16 sem. hrs.

#### Third Semester

|         |                                  |
|---------|----------------------------------|
| CHEM330 | Organic Chemistry I (4)          |
| PHYS321 | University Physics II (4)        |
| PHYS323 | Physical Measurements Lab II (1) |
| MATH311 | Calculus III (4)                 |

TOTAL 13 sem. hrs.

#### Fourth Semester

|         |                              |
|---------|------------------------------|
| PHYS325 | Modern Physics (3)           |
| CHEM331 | Organic Chemistry II (4)     |
| MATH275 | Linear Algebra (3)           |
|         | General Education Course (6) |

TOTAL 16 sem. hrs.

#### Fifth Semester

|         |                                |
|---------|--------------------------------|
| PHYS441 | Thermal Physics (3)            |
| CHEM530 | Physical Chemistry I (4)       |
| MASC210 | Intro to Materials Science (4) |
| MFGT105 | Engineering Materials (3)      |

TOTAL 14 sem. hrs.

#### Sixth Semester

|         |                               |
|---------|-------------------------------|
| PHYS415 | Solid State Physics (3)       |
| MFGT306 | Strength of Materials Lab (3) |

|         |                               |
|---------|-------------------------------|
| CHEM533 | Polymer Chemistry (3) OR      |
| CHEM420 | Inorganic Chemistry (3)       |
|         | General Education Courses (6) |

TOTAL 15 sem. hrs.

#### Seventh Semester

|         |                                 |
|---------|---------------------------------|
| CSCI130 | Principles of Programming I (3) |
|         | General Education Courses (6)   |
|         | Free electives (6)              |

TOTAL 15 sem. hrs.

#### Eighth Semester

|         |                              |
|---------|------------------------------|
| PHYS449 | Mathematical Methods (3)     |
|         | General Education Course (3) |

|         |                           |
|---------|---------------------------|
|         | Free Electives (5)        |
|         | (3)                       |
| PHYS453 | Quantum Physics           |
| PHYS420 | Mechanics I               |
| PHYS430 | Electricity and Magnetism |
| ENGR303 | Engineering Statics       |

TOTAL 14 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.

## 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 Swanson School of Engineering at 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 Cooperative Engineering Physics 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 Cooperative Engineering Physics Program. 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 Cooperative Engineering Physics program (referred to as “the program” below) 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 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 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 engineering concentrations within each of these universities will require a higher grade point average than what is stated here. You should consult with the Edinboro program advisor for particular requirements.
4. The individual student should request an application from the 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 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 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 preclude 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**

Computer  
 Macromolecular Science and Engineering  
 Biomedical  
 Ceramics and Material Science  
 Chemical  
 Civil  
 Electrical  
 Materials Science and Engineering  
 Mechanical and Aerospace Engineering Physics  
 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 (University Park). 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  
 Chemical and Petroleum  
 Civil and Environmental  
 Computer  
 Electrical  
 Engineering Science  
 Industrial Engineering  
 Materials Science and Engineering  
 Mechanical Engineering

7. An entering student at Edinboro who plans to follow the Cooperative Engineering Physics Program will be enrolled in the Bachelor of Science Degree in Physics-Cooperative Engineering Physics concentration which will include the following course requirements to be taken at Edinboro University for transfer.

#### **Course requirements for Cooperative Engineering Physics Program**

- I. General Education Requirements 37 sem. 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 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.

**See your advisor or Cooperative Engineering Physics program director for approved course guides.**

- II. Required Courses 59 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 (2)                |
| PHYS312 | Technical Electronics II <b>or</b>     |
| 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 | Microeconomics (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 program director to guarantee the suitability of all courses for their intended engineering major and cooperating university.

#### **BACHELOR OF SCIENCE – PHYSICS/COOPERATIVE ENGINEERING TRACK (Suggested Six-Semester Sequence)**

|                       |                            |
|-----------------------|----------------------------|
| <b>First Semester</b> |                            |
| 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 | Research Writing (3)       |
|         | General Education Core (3) |
|         | TOTAL 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)       |
|         | TOTAL 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) |
|                | TOTAL 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)              |
|         | TOTAL 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)       |
|         | TOTAL 16 sem. hrs.                  |

#### **APPLIED TECHNICAL LEADERSHIP PROGRAM**

The Applied Technical Leadership (ATL) program is a multi-disciplinary, exclusively online program that is focused on the aspects of leadership and management in a technical environment. Drawing upon coursework in manufacturing, psychology, communications, economics, finance and marketing, and culminating in a leadership capstone experience, the ATL program prepares students to assume organizational leadership roles in industry. Additionally, if students in the ATL program take MKTG 300 and earn a B or higher in all courses taken in the Department of Business and Economics program, they will meet the prerequisites for the MBA program.

Applicants to this program are expected to have a previous associate degree in a technical area which satisfies 12-24 credits of coursework in addition to at least 9 credits of general education, although additional requirements may also be met depending on specific transfer credits. The program is designed to be completed in four semesters, but additional requirements may make additional coursework necessary to complete the ATL program standards.

The Industrial and Engineering Administration concentration is an interdisciplinary concentration housed under the ATL program which was developed jointly by the Department of Physics & Technology and the Department of Business & Economics in order to address industry needs. This curriculum allows 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

### Applied Technical Leadership

|                                     |  |
|-------------------------------------|--|
| I. General Education Requirements   | 42 sem. hrs.   |
| A. Skills                           | 12 sem. hrs.   |
| ENGL101                             | College Writing Skills (3)   |
| ENGL102                             | Research Writing (3)   |
| MATH105/150                         | College Algebra/Applied Mathematics for Business (3)                         |
| CSCI104                             | Computing Essentials I or Discipline-Specific Computer Competency Course (3) |
| B. Core                             | 21 sem. hrs.   |
| 1. Artistic Expression (3)          |  |
| 2. World Civilizations (3)          |  |
| 3. American Civilizations (3)       |  |
| 4. Human Behavior                   |  |
| PSYC 101                            | Introduction to Psychology (3)   |
| 5. Cult Div/Soc. Pluralism (3)      |  |
| 6. Ethics (3)                       |  |
| 7. Natural Sciences (3)             |  |
| C. Distribution                     | 9 sem. hrs.  |
| 1. Humanities and Fine Arts (3)     |  |
| ENGL370 or ENGL305                  |  |
| 2. Social & Behavioral Sciences (3) |  |
| ECON220                             | Microeconomics   |
| 3. Science & Math (3)               |  |

|  |   |
|--|---|
| II. Business/Technical Leadership  | 36 sem. hrs.                            |
| All courses in this block are 3 semester hours.  |   |
| PSYC 360   | Industrial-Organizational Psychology    |
| ACCT 215   | Accounting I                            |
| ACCT 220   | Accounting II                           |
| MGMT300  | Principles of Management                |
| ECON225  | Macroeconomics                          |
| COMM 308   | Leadership Communication                |
| ATL 450  | Applied Technical Leadership            |
| LEAD 202   | Leadership Studies                      |
| MFGT 201   | Quality Control                         |
| STAT 260   | Elements of Statistics                  |
| Take one of the following:   |   |
| MFGT 315 OR  | Operational Planning in Manufacturing   |
| MFGT 420   | Material Handling and Facility Planning |
| Take one of the following:   |   |
| FIN 300 OR   | Principles of Finance                   |
| MKTG 300*  | Principles of Marketing                 |
| *To pursue an MBA, students must take this course and earn a B or higher in all courses taken in the Dept. of Business and Economics.  |   |
| III. Applied Technical Training  | 12-24 sem. hrs.                         |
| ENGR 298   | Applied Technical Field Training        |
| A journeyman's certificate in a technical trade, military technical training/certifications, or an associate degree in technology from an accredited institution may satisfy the specialization area. Two-thirds of ENGR 298 credits will be accepted as advanced coursework. An internship may count for credits in this area. Additional courses should be selected from free electives to complete the 42 credit advanced coursework requirement. |   |
| IV. Free Electives   | 18-30 sem. hrs.                         |

A sufficient number of credits from 300-level or higher courses are required to complete 42 hours of advance coursework. Students are encouraged to expand their leadership and technical education and should consult with their advisor regarding relevant coursework that may be used in this area.

### BACHELOR OF SCIENCE APPLIED TECHNICAL LEADERSHIP (Suggested Six-Semester sequence\*)

\*Sequence assumes maximum number of Applied Technical Training credits and 9 credits of Core requirements satisfied by transfer courses from previous degree. Program may be completed in as little as 4 semesters if the entering student has sufficient core and free elective courses.

|                        |  |
|------------------------|--|
| <b>First Semester</b>  |  |
| PSYC 101               | Introduction to Psychology (3)   |
| MATH105/150            | College Algebra/Applied Mathematics for Business (3)                                 |
| ACCT 215               | Accounting I (3)   |
| ENGL101                | College Writing Skills (3)   |
| CSCI 104               | Essentials of Computer Science (3) or Discipline-Specific Computer Competency Course |
|                        | TOTAL   15 sem. hrs.   |
| <b>Second Semester</b> |  |
| ENGL102                | Specialized College Writing and Research Skills (3)                                  |
| ACCT 220               | Accounting II (3)  |
| MFGT201                | Quality Control (3)  |
| PSYC360                | Industrial and Organizational Psychology (3)   |
| LEAD202                | Leadership Studies (3)   |
|                        | TOTAL   15 sem. hrs.   |

|  |  |
|--|--|
| <b>Third Semester</b>                        |  |
| STAT260                                      | Elements of Statistics (3)   |
| ENGL370 or ENGL305                           | Business English<br>Technical Writing (3)  |
| ECON 225                                     | Macroeconomics (3)   |
| ECON 220                                     | Microeconomics (3)   |
| MGMT300                                      | Principles of Management (3)   |
|  | TOTAL 15 sem. hrs.   |
| <b>Fourth Semester</b>                       |  |
| FIN300 <b>OR</b> MKTG300                     | Principles of Finance (3)<br>Principles of Marketing   |
| COMM308+<br>MFGT315 or<br>MFGT 420<br>ATL450 | Leadership Communication (3)<br>Operational Planning in Manufacturing (3)<br>Material Handling and Facility Planning<br>Applied Technical Leadership (3)<br>Gen. Ed. Distribution 3 (3)* |
|  | TOTAL 15 sem. hrs.   |
| <b>Fifth Semester</b>                        |  |
|  | Free Elective (6)*<br>Gen. Ed. Core (9)*   |
|  | TOTAL 15 sem. hrs.   |
| <b>Sixth Semester</b>                        |  |
|  | Gen. Ed. Core (3)*<br>Free Elective (12)*  |
|  | TOTAL 15 sem. hrs.   |

+COMM308 may be offered in summer or winter session  
 \*These courses are taken only if needed to complete general education credit requirements, or fulfill 120 credit requirement.

**BS APPLIED TECHNICAL LEADERSHIP  
 (CONCENTRATION: INDUSTRIAL AND ENGINEERING  
 ADMINISTRATION)**

|     |                                     |  |
|-----|-------------------------------------|--|
| I.  | General Education Requirements      | 45 sem. hrs.   |
| A.  | Skills                              | 13 sem. hrs.   |
|     | ENGL101                             | College Writing Skills (3)   |
|     | ENGL102                             | Research Writing (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 ENGL305                  |  |
|     | 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  |
|     | STAT260                             | 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, <b>OR</b> an Associate Degree in Engineering Technology from an accredited institution will satisfy the specialization area.  |                    |
| IV.  | Business Admin. Requirements  | 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 |
| V.   | Free Electives **   | 14 sem. hrs.       |
|      | 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 |                    |

**BACHELOR OF SCIENCE APPLIED TECHNICAL  
 LEADERSHIP-INDUSTRIAL ENGINEERING  
 ADMINISTRATION  
 (Suggested Eight-Semester sequence)**

|                        |   |
|------------------------|---|
| <b>First Semester</b>  |   |
| MFGT100                | Manufacturing Processes (4)   |
| MATH107                | Pre-Calculus (4)  |
| MFGT105                | Engineering Materials (3)   |
| ENGR201                | Engineering Graphics (3)  |
|                        | First Year Experience (0)   |
|                        | TOTAL 14 sem. hrs.  |
| <b>Second Semester</b> |   |
| 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)   |
|                        | TOTAL 15 sem. hrs.  |
| <b>Third Semester</b>  |   |
| PHYS201                | Physics I (4)   |
| STAT260                | Elements of Statistics (3)  |
| ENGL370                | Business English Or   |
| ENGL 305               | Technical Writing (3)   |
|                        | Free Elective (3)   |
|                        | Gen. Ed. Core (3)   |
|                        | TOTAL 16 sem. hrs.  |
| <b>Fourth Semester</b> |   |
| PHYS202                | Physics II (4)  |
| MFGT225                | Statics and Strengths of Materials (3)                                    |
| MFGT311                | Rapid Prototyping (3)   |
|                        | Elective (3)  |
|                        | Gen. Ed. Core (3)   |
|                        | TOTAL 16 sem. hrs.  |
| <b>Fifth Semester</b>  |   |
| ECON220                | Microeconomics (3)  |
| ACCT215                | Accounting I (3)  |
| ENGL102                | Research Writing (3)  |
|                        | Free Elective (3)   |
|                        | Gen. Ed. Core (3)   |
|                        | TOTAL 15 sem. hrs.  |



**Sixth Semester**

|         |   |
|---------|---|
| ECON225 | Macroeconomics (3)  |
| ACCT220 | Accounting II (3)   |
| MFGT315 | Operational Planning in Manufacturing (3)<br>MFGT/Business Elective (2) |
|         | Gen. Ed. Core (3)   |
|         | <b>TOTAL 14 sem. hrs.</b>   |

**Seventh Semester**

|         |   |
|---------|---|
| ACCT325 | Managerial Accounting (3)                         |
| FIN300  | Finance I (3)                                     |
| MFGT320 | Cost Estimating (3)<br>MFGT/Business elective (3) |
|         | Gen. Ed. Core (3)                                 |
|         | <b>TOTAL 15 sem. hrs.</b>                         |

**Eighth Semester**

|          |  |
|----------|--|
| 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<br>Planning (3) |
| MFGT 325 | Computer Aided Manufacturing (3)               |
|          | <b>TOTAL 15 sem. hrs.</b>                      |

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## Psychology Department

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**FACULTY:** Ronald A. Craig, Sharon A. Hamilton, Wayne R. Hawley, Joyce A. Jagielo, Gary LaBine, Susan J. LaBine, Gary M. Levine, Peter J. McLaughlin, Gregory D. Morrow, William D. Pithers, Michael A. Skelly, Heather T. Snyder

The Bachelor of Science degree in Psychology at Edinboro University is a flexible program designed to serve students interested in a wide range of career paths. This includes students who are preparing for graduate training in psychology and related fields as well as those who directly enter a career. Students work closely with their faculty advisor to develop a program of study to prepare them for one of the many career opportunities that exist in mental health, counseling, social work, art therapy, pre-med and health-related careers, neuroscience, schools, business and industry, law and the criminal justice system, the non-profit sector, as well as government service and the military.

In addition to foundation and pre-professional courses, all majors take two capstone courses including one advanced lab course. Two popular capstone options include our highly regarded Internship in Psychology (PSYC395) course which allows the student to obtain intensive “on the job” experience prior to graduation and our Advanced Research Seminar course (PSYC497) where students work directly with a faculty member on research that often culminates in presentations at professional conferences or publications. Experiences like these, along with the high-quality teaching and advising that focuses exclusively on undergraduates, has led to great success for our majors being accepted into top graduate programs as well as those who decide that directly entering the workforce makes the most sense as their next step.

The department also offers a very flexible accelerated degree program where students can obtain a Master’s degree at Edinboro in one less year than it would typically take (for example, earning their Master’s in Social Work or their Master’s in Business Administration in 5 years instead of 6). Students interested in these programs should talk to the Psychology Chairperson or their Faculty advisor. Of course, students must maintain a quality GPA of at least 3.0 and meet the entrance requirements of their desired graduate program if they pursue this option.

The Psychology department at Edinboro has adopted the following student learning outcome goals as put forward by the American Psychology Association 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

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## Bachelor of Science Degree

**Psychology**

|                                   |   |
|-----------------------------------|---|
| I. General Education Requirements | 42 sem. hrs.  |
| A. Skills                         |   |
| ENGL101                           | College Writing Skills (3)  |
| ENGL102                           | Writ/Research Skills (3)  |
| MATH104                           | Finite Math or Higher (3)   |
| PSYC227                           | Experimental Psychology (3)   |
| B. Core                           |   |
|                                   | Artistic Expression (3)   |
|                                   | World Civilization (3)  |
|                                   | American Civilizations (3)  |
|                                   | Human Behavior - PSYC101 Intro to Psych (3)   |
|                                   | Cultural Diversity and Social Pluralism (3)   |
|                                   | Ethics (3)  |
|                                   | Natural Science (3)   |
| C. Distribution                   |   |
|                                   | Humanities and Fine Arts (3)  |
|                                   | Social and Behavioral Sciences (no PSYC course permitted) (3)   |
|                                   | Science and Math (3)  |
| II. Major in Psychology           | 49 sem. hrs.  |
| A. Psychology Core                | 16 sem. hrs.  |
|                                   | PSYC225/6 Psychological Statistics/Discussion (4)**   |
|                                   | <i>Choose 1 class from each pair (see your Psychology advisor):</i>   |
|                                   | PSYC300 or PSYC400 (3)  |
|                                   | PSYC317 or PSYC319 (3)  |
|                                   | PSYC345 or PSYC350 (3)  |
|                                   | PSYC370 or PSYC390 (3)  |
| B. Pre-Professional Focus         | (5 sem. hrs.)   |
|                                   | <i>Choose 5 additional upper-level Psychology classes in consultation with your advisor related to your career goals. See below for some examples*.</i> |
| C. Psychology Capstones           | 6 sem. hrs.   |
|                                   | <i>Choose one Advanced Lab Course:</i>  |
|                                   | PSYC380, 405, 427, 430, 440, or 497 (3)   |
|                                   | <i>Choose one Capstone Course:</i>  |
|                                   | PSYC395, 425, 489, 490, 496, or 497 (3)   |
| D. Psychology Electives           | 12 sem. hrs.  |
| III. Free Electives               | 29 sem. hrs.  |
|                                   | <b>TOTAL 120 sem. hrs.</b>  |

**Important Note:** Psychology majors are required to have an overall GPA of 2.5 or higher to graduate with a Degree in Psychology and a grade of C- or better is required in all Psychology courses except those counting as Psychology or Free Electives.

**Some suggested PSYC courses depending on your career goals:**

- Students interested in Mental Health Therapy with children and/or adults or related areas such as Counseling or Social Work usually choose from PSYC365, 373, 375, 377, 387, & 388, and then take 440 and complete an internship as their capstones.
- Students interested in Neuroscience/Pre-Med/Health related careers usually choose from PSYC300, 332, 345, 350, 397, 400 & 410, and then take 425 & 497 as their capstones. They often minor or double degree in Health Sciences.
- Students interested in Psychology and Law related careers usually choose from PSYC355, 360, 365, 385, & 390 and often minor or double degree in Criminal Justice, Forensic Studies, or Pre-Law.

- Students interested in School Psychology/Art Therapy/Business and many other careers will develop an individualized plan with their Faculty advisor.

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### BACHELOR OF SCIENCE PSYCHOLOGY (Suggested Eight-Semester Sequence)

**First Semester**

|         |   |
|---------|---|
| PSYC101 | Introduction to Psychology (3)<br><i>(General Education-Core 4)</i> |
| ENGL101 | College Writing Skills (3)<br>General Education Core Courses (9)    |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

|         |   |
|---------|---|
| ENGL102 | Research Writing (3)                                    |
| MATH104 | Finite Math (or higher) (3)                             |
| PSYC    | PSYC Elective (3)<br>General Education Core Courses (6) |
|         | TOTAL 15 sem. hrs.                                      |

**Third Semester**

|           |   |
|-----------|---|
| PSYC225/6 | Psychological Statistics/Psyc Stats<br>Discussion (4)       |
| PSYC317   | Developmental Psychology OR                                 |
| PSYC319   | Psychology of Aging (3)                                     |
| PSYC345   | Brain and Behavior (3) OR                                   |
| PSYC 350  | Drugs and Human Behavior                                    |
| PSYC370   | Psychology of Personality OR                                |
| PSYC390   | Social Psychology (3)<br>General Education Core Courses (3) |
|           | TOTAL 16 sem. hrs.  |

**Fourth Semester**

|         |  |
|---------|--|
| PSYC227 | Experimental Psychology ( <i>General<br/>Education-Computer Competency</i> ) (3)                   |
| PSYC300 | Learning Theory/Apppl OR   |
| PSYC400 | Cognitive Psychology (3)   |
| PSYC    | Pre-Professional PSYC Course (3)<br>General Education Distribution Course (3)<br>Free Elective (3) |
|         | TOTAL 15 sem. hrs.   |

**Fifth Semester**

|      |  |
|------|--|
| PSYC | Pre-Professional PSYC Courses (6)<br>General Education Distribution (3)<br>Free Elective Courses (6) |
|      | TOTAL 15 sem. hrs.   |

**Sixth Semester**

|      |  |
|------|--|
| PSYC | Pre-Professional PSYC Courses (6)<br>General Education Distribution (3)<br>Free Elective Courses (6) |
|      | TOTAL 15 sem. hrs.   |

**Seventh Semester**

|      |  |
|------|--|
| PSYC | Psychology Advanced Lab Course (3)                   |
| PSYC | Psychology Capstone Course (3)                       |
| PSYC | Psychology Elective (3)<br>Free Elective Courses (6) |
|      | TOTAL 15 sem. hrs.                                   |

**Eighth Semester**

|      |   |
|------|---|
| PSYC | Psychology Electives (6)<br>Free Elective Courses (9) |
|      | TOTAL 15 sem. hrs.                                    |

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 on Social Work Education (CSWE). 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 nine competencies related to social work practices.

- Demonstrate ethical and professional behavior
- Engage diversity and difference in practice
- Advance human rights and social, economic, and environmental justice
- Engage in practice-informed research and research-informed practice
- Engage in policy practice
- Engage with individuals, families, groups, organizations, and communities
- Assess individuals, families, groups, organizations, and communities
- Intervene with individuals, families, groups, organizations, and communities
- Evaluate practice with individuals, families, groups, organizations, and communities

Graduates find employment in a variety of settings working with the elderly, children, families, veterans, people with mental illness, people with intellectual or developmental disabilities, adult and juvenile offenders, people with addictions, and more. 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.

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## Social Work Department

**FACULTY:** Janice Carello, Hilary Copp, Kimberly Hardner, William Koehler, Suzanne McDevitt, Shraddha Prabhu, David-Pugh, Christine Rine, Elaine Rinfrette, Roselle Scaggs, Margaret Smith, Molly Wolf

The program does not grant social work course credit for life experience or previous work experience.

All first and second-year 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.

|      |  |  |
|------|--|--|
| 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)                 |
|      | SOC 100*   | Principles of Sociology (3)                  |
|      | Two of the following four classes: (6 sem. hrs.) |  |
|      | SOC325   | Sociology of Gender (3)                      |
|      | SOC347   | Work, Class, and Society (3)                 |
|      | SOC364   | Race & Ethnic Relations (3)                  |
|      | SOC385   | Disability Studies (3)                       |
|      | One of the following two classes: (3 sem. hrs.)  |  |
|      | BIOL101  | Human Biology (3)                            |
|      | BIOL210  | Allied Health Human Biology (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\*

#### First Semester

|          |   |
|----------|---|
| 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> 15 sem. hrs.                 |

#### Second Semester

|                |  |
|----------------|--|
| SOWK115*       | Human Diversity (3)  |
| ENGL102        | Research Writing (3)   |
| CSCI104        | Essential Computing I (3)  |
| BIOL101 or 210 | Human Biology (Distribution 3) or Allied Health Human Biology (Core 7) (3)** |
|                | Core 1, 2, 3, 6, or 7 (3)  |
|                | <b>TOTAL</b> 15 sem. hrs.  |

#### Third Semester

|                          |  |
|--------------------------|--|
| SOWK205*                 | Human Behavior in the Social Environment (3) |
| SOC325, 347, 364, or 385 | Distribution 2 (3)**                         |
|                          | Core 1, 2, 3, 6, or 7 (3)                    |
|                          | Core 1, 2, 3, 6, or 7 (3)                    |
|                          | Core 1, 2, 3, 6, or 7 (3)                    |
|                          | <b>TOTAL</b> 15 sem. hrs.                    |

#### Fourth Semester

|                          |   |
|--------------------------|---|
| SOWK250*                 | Introduction to Social Welfare Policy (3) |
| SOC325, 347, 364, or 385 | Distribution 2 (3)**                      |
| PSYC225                  | Psychological Statistics (3)              |
|                          | Core 1, 2, 3, 6, or 7 (3)                 |
|                          | Distribution 1 (3)                        |
|                          | <b>TOTAL</b> 15 sem. hrs.                 |

\* Apply for admission to Level II – Social Work major in the fourth semester.

#### Fifth Semester

|         |                            |
|---------|----------------------------|
| SOWK300 | Social Welfare Policy (3)  |
| SOWK310 | Social Work Practice I (3) |
|         | Free Elective (3)**        |
|         | Free Elective (3)**        |
|         | Free Elective (3)**        |
|         | <b>TOTAL</b> 15 sem. hrs.  |

#### Sixth Semester

|         |  |
|---------|--|
| SOWK312 | Social Work Practice II (3)              |
| SOWK315 | Introduction to Social Work Research (3) |
|         | Free Elective (3)**                      |
|         | Free Elective (3)**                      |
|         | Free Elective (3)**                      |
|         | <b>TOTAL</b> 15 sem. hrs.                |

#### Seventh Semester

|         |                              |
|---------|------------------------------|
| SOWK410 | Social Work Practice III (3) |
|         | Free Elective (3)**          |
|         | Free Elective (3)**          |
|         | Free Elective (3)**          |
|         | Free Elective (3)**          |
|         | <b>TOTAL</b> 15 sem. hrs.    |

#### Eighth Semester

|         |  |
|---------|--|
| SOWK495 | Internship: Social Work Fieldwork (12)       |
| SOWK496 | Senior Seminar (concurrent with SOWK495) (3) |
|         | <b>TOTAL</b> 15 sem. hrs.                    |

\*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.

# School of Business

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## Business and Economics Department

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**FACULTY:** Douglas Battleson, John Dexter, Michael Engdahl, Timothy Few, 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 accounting, economics, and business administration, and minor programs in accounting, business administration, economics, and personal financial planning. The B.S. degree in Business Administration offers six concentrations: Comprehensive Business Administration, Finance, Intelligent Enterprise, International Business, Marketing, and Personal Financial Planning. 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 Delta Mu Delta, which is an international business honor society. The Department also provides opportunities for leadership development through participation in clubs and organizations in the Department and across the University.

Edinboro University, 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 Accounting
- the Bachelor of Science in Business Administration with concentrations in Comprehensive Business Administration, Intelligent Enterprise, International Business, Finance, Marketing, and Personal Financial Planning.

ACBSP is a leading global 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 BS in Business Administration degree but needing evidence of academic credentials in a 60 hour academic window. Students planning to continue into the BS in Business Administration degree should meet with their advisors regarding course sequencing before scheduling the last semester of coursework.

#### A.S. 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.

- |   |                            |
|---|----------------------------|
| I. General Education Requirements   | 24 sem. hrs.               |
| To include:   |                            |
| ENGL101   | College Writing Skills (3) |
| ENGL102   | Research Writing (3)       |
| *MATH150  | Math for Business (3) or   |
| *MATH 105   | College Algebra (3)        |
| CSCI104   | Essential Computing 1 (3)  |
| Three courses approved in three areas of Core 1-5 (9)   |                            |
| *For students interested in pursuing the BS in Business Administration, MATH150 is recommended as it is required for the BS in Business Administration. |                            |

|                                      |   |                     |
|--------------------------------------|---|---------------------|
| 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)              |                     |
| PFP360                               | Personal Financial Planning (3)               |                     |
| STAT260                              | Elements of Statistics (3)                    |                     |
| MGMT260                              | Fundamentals of Management & Marketing (3) or |                     |
| MGMT300                              | Principles of Management (3) or               |                     |
| MKTG300                              | Principles of Marketing (3)                   |                     |
| ENGL370                              | Business Writing (3) or                       |                     |
| COMM298 or PR298                     | Business Professional Communication (3)       |                     |
|                                      | Business and Professional Communication (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<br>Discipline-specific Computer<br>Competency Course |                     |
| ENGL101 | College Writing Skills (3)  |                     |
| MATH150 | Math for Business (3) or  |                     |
| MATH105 | College Algebra (3)   |                     |
|         | One General Education Core Course (3)   |                     |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

#### Second Semester

|         |  |                     |
|---------|--|---------------------|
| ECON220 | Principles of Microeconomics (3)         |                     |
| ENGL102 | Research Writing (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)               |  |
| STAT260     | Elements of Statistics (3)                     |  |
| *ENGL370    | Business Writing (3) or                        |  |
| *COMM298 or | Business Professional Communication (3)        |  |
| *PR298      | Business and Professional<br>Communication (3) |  |

#### Fourth Semester

|                       |   |                     |
|-----------------------|---|---------------------|
| ACCT220               | Principles of Accounting II (3)               |                     |
| BUAD260               | Business Law I (3)                            |                     |
| PFP360                | Personal Financial Planning (3)               |                     |
|                       | One Free Elective (3)                         |                     |
| One of the following: |   |                     |
| MGMT260               | Fundamentals of Management & Marketing (3) or |                     |
| MGMT300               | Principles of Management (3) or               |                     |
| MKTG300               | Principles of Marketing (3)                   |                     |
|                       | <b>TOTAL</b>                                  | <b>15 sem. hrs.</b> |

In order to graduate with an Associate of Science in Business Administration, the student must have a 2.00 cumulative grade point average.

This is the *recommended* course sequence necessary to complete the Associate of Science in Business Administration 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

### Accounting

The Accounting degree 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 degree/major to complete the 150-hour requirement for CPA licensure (please see the Department for more information). Students completing this program are well prepared for entry into the workforce as professional accountants and continuing their education at graduate school.

#### BS Accounting Learning Goals & Objectives

Students will:

- Demonstrate proficiency in critical thinking and decision-making skills.
- Prepare financial statements in accordance with U.S. generally accepted accounting principles.
- Evaluate the potential effects of management decisions on future financial performance.
- Develop and utilize spreadsheets for accounting applications and reports.
- Identify ethical issues, apply ethical reasoning, and choose appropriate courses of action in business situations based on ethical principles and Codes of Professional Conduct.
- Use professional resources (e.g., IRC, FASB ASC) for accounting, auditing, and tax research to properly account for and report financial transactions and information.
- Understand and apply generally accepted auditing standards.
- Evaluate internal control systems and procedures, understand audit program development, and develop audit procedures.
- Prepare attestation reports

|                                   |         |   |
|-----------------------------------|---------|---|
| I. General Education Requirements |         | 42 sem. hrs.                                |
| A. Skills                         |         | 12 sem. hrs.                                |
|                                   | ENGL101 | College Writing Skills (3)                  |
|                                   | ENGL102 | Research Writing (3)                        |
|                                   | MATH150 | Math for Business (3)                       |
|                                   | ACCT221 | Accounting Information Systems (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)<br>Social and Behavioral Sciences (3)<br>ECON220 is used to meet the Social and Behavioral Sciences Distribution requirement<br>Science and Mathematics (3)<br>STAT260 is used to meet the Science and Mathematics Distribution requirement | <b>Third Semester</b><br>ECON225<br>STAT260<br>ACCT330<br>ACCT315  | Principles of Macroeconomics (3)<br>Elements of Statistics (3)<br>Federal Income Tax (3)<br>Intermediate Accounting (3)<br>Distribution 1 Course (3)<br>TOTAL 15 sem. hrs.            |
| II. Accounting Courses                              | 60 sem. hrs. |  | <b>Fourth Semester</b><br>QUAN340<br>BUAD260<br>ACCT335<br>ACCT320 | Statistics for Business and Economics (3)<br>Business Law I (3)<br>Business Taxation (3)<br>Intermediate Accounting II (3)<br>General Education Core Course (3)<br>TOTAL 15 sem. hrs. |
| A. Accounting Business Foundation Courses           | 18 sem. hrs. |  | <b>Fifth Semester</b><br>ACCT400<br>MGMT300<br>MKTG300             | Auditing I (3)<br>Principles of Management (3)<br>Principles of Marketing (3)<br><br>General Education Core Course (3)<br>General Education Core Course (3)<br>TOTAL 15 sem. hrs.     |
| ACCT215   |              | Principles of Accounting I (3)   |  |   |
| ACCT220   |              | Principles of Accounting II (3)  |  |   |
| BUAD160   |              | Business in Society (3)  |  |   |
| BUAD260   |              | Business Law (3)   |  |   |
| ECON220   |              | Principles of Microeconomics (3)<br>(fulfills Distribution 2 requirement)  |  |   |
| ECON225   |              | Principles of Macroeconomics (3)   |  |   |
| QUAN340   |              | Statistics for Business and Economics (3)  |  |   |
| B. Accounting Business requisite courses            | 15 sem. hrs. |  | <b>Sixth Semester</b><br>BUAD320<br>FIN300<br>ACCT325              | Information Resource Management (3)<br>Principles of Finance (3)<br>Managerial Accounting (3)<br>General Education Core Course (3)<br>Free Elective (3)<br>TOTAL 15 sem. hrs.         |
| BUAD320   |              | Introduction to Enterprise Systems (3)   |  |   |
| FIN300  |              | Principles of Finance (3)  |  |   |
| MGMT300   |              | Principles of Management (3)   |  |   |
| MKTG300   |              | Principles of Marketing (3)  |  |   |
| BUAD475   |              | Business Decision Making (3)   |  |   |
| C. The Accounting and Business Law required courses | 27 sem. hrs. |  | <b>Seventh Semester</b><br>ACCT420<br>ACCT430                      | Advanced Accounting (3)<br>Forensic Accounting I (3)<br>General Education Core Course (3)<br>Free Elective (3)<br>Free Elective (3)<br>TOTAL 15 sem. hrs.                             |
| ACCT315   |              | Intermediate Accounting I (3)  |  |   |
| ACCT320   |              | Intermediate Accounting II (3)   |  |   |
| ACCT325   |              | Managerial Accounting (3)  |  |   |
| ACCT330   |              | Federal Individual Income Tax (3)  |  |   |
| ACCT335   |              | Business Taxation (3)  |  |   |
| ACCT400   |              | Auditing I (3)   |  |   |
| ACCT420   |              | Advanced Accounting (3)  |  |   |
| ACCT430   |              | Forensic Accounting I (3)  |  |   |
| BUAD365   |              | Business Law II (3)  |  |   |
| III. Free Electives*                                | 18 sem. hrs. |  | <b>Eighth Semester</b><br>BUAD475<br>BUAD365                       | Business Decision Making (3)<br>Business Law II (3)<br>Free Elective (3)<br>Free Elective (3)<br>Free Elective (3)<br>TOTAL 15 sem. hrs.  |
|   |              |  |  |   |
|   |              | TOTAL  |  | 120 sem. hrs.   |

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

#### First Semester

|                    |   |
|--------------------|---|
| ACCT215            | Principles of Accounting I (3)  |
| ENGL101            | College Writing Skills (3)  |
| MATH150            | Math for Business (3)<br>General Education Core Course (3)<br>General Education Core Course (3) |
| TOTAL 15 sem. hrs. |   |

#### Second Semester

|                    |                                    |
|--------------------|------------------------------------|
| ECON220            | Principles of Microeconomics (3)   |
| ACCT220            | Principles of Accounting II (3)    |
| ENGL102            | Research Writing (3)               |
| BUAD160            | Business in Society (3)            |
| ACCT221            | Accounting Information Systems (3) |
| TOTAL 15 sem. hrs. |                                    |

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Accounting 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.**

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## 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: Comprehensive Business Administration, Finance, Intelligent Enterprise, International Business, Marketing, or Personal Financial Planning.

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, Human Resource Management, or Management**.

The **Finance** concentration is designed to prepare students for careers in banking, corporate finance, and investment management. Potential careers include lending officer, bank examiner/auditor, bank regulatory compliance officer, financial analyst, project analyst, financing specialist, investment analyst, and securities research analyst. The Finance concentration coursework, in addition to Finance courses, includes a series of business courses in Accounting, Economics, Management, Marketing, and Statistics. The Finance concentration coursework provides each student the opportunity to obtain a sound understanding of financial theory, concepts, and computations and the ability to effectively apply financial knowledge in order to solve business decisions associated with careers in finance.

The **Intelligent Enterprise** concentration is designed to help students learn current and emerging concepts, technologies and methodologies, to successfully implement and maintain enterprise systems to run businesses competitively. The intelligent enterprise continues to evolve with emerging technologies such as digital transformation. The program includes experiential learning that is integrated with the use of SAP systems. Students experience real-world scenarios and team dynamics using ERP simulation games, engaging projects, and professional communities. Education and skills are highly transferrable to other technology platforms such as SuccessFactors, Workday and Oracle. Students are introduced to leading industry certifications.

The **International Business** concentration provides students with a broad exposure both to the impact of domestic firms doing business in a global marketplace and of foreign firms doing business in the United States. The program is designed to not only provide students with a sound foundation in the finance, economics and marketing of international firms, but also to obtain a unique skill set in a specific discipline. Through this specialization, the student is able to apply the theories and concepts obtained in the global business sequence to a business discipline such as accounting, finance, economics, marketing, or management and bring value to a multinational firm. Courses in International Economics, International Finance, and International Marketing are taken in this program to prepare students for careers in multi-national firms, expatriate positions, and import/export management.

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.

The **Personal Financial Planning** 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 Personal Financial Planning concentration is registered with Certified Financial Planner Board of Standards, Inc. Graduates of a CFP Board Registered personal financial planning program meet the educational requirements to take the CFP® Certification Examination. Edinboro University 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 a person who, in addition to completing an education requirement such as this CFP Board Registered Program, has met its ethics, experience and examination requirements. The 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.

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## DEPARTMENT OF BUSINESS & ECONOMICS

### B.S. 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.
  - 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.
- 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 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.

|      |  |   |
|------|--|---|
| I.   | General Education Requirements   | 42 sem. hrs.  |
| A.   | Skills   | 12 sem. hrs.  |
|      | ENGL101  | College Writing Skills (3)  |
|      | ENGL102  | Research Writing (3)  |
|      | MATH150  | Applied Mathematics for Business (3)*   |
|      | CSCI104  | Essentials of Computing I (3) or discipline-specific computer competency course   |
| 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)  |
|      | ECON220  | is used to meet the Social and Behavioral Science Distribution requirement.   |
|      |  | Science and Mathematics (3)   |
|      | STAT260  | is used to meet the Science and Mathematics Distribution requirement.   |
| II.  | Business Requirements  | 33 sem. hrs.  |
| A.   | Business Foundation  | 18 sem. hrs.  |
|      | ACCT215  | Principles of Accounting I (3)  |
|      | ACCT220  | Principles of Accounting II (3)   |
|      | 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)                 |   |
|      | BUAD320  | Introduction to Enterprise Systems (3)  |
|      | BUAD475  | Business Decision Making (3)  |
|      | FIN300   | Principles of Finance (3)   |
|      | MGMT300  | Principles of Management (3)  |
|      | MKTG300  | Principles of Marketing (3)   |
|      | PFP360   | Personal Financial Planning (3)   |
| III. | Concentration Requirements   | 24-48 sem. hrs.   |
|      | (students must choose one or more concentrations)  |   |
| A.   | <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) or Personal Financial Planning (PFP) (3)  |
|      |  | Management (MGMT) or Business Administration (BUAD) or Intelligent Enterprise (IENT) (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, PFP, or IENT. |



- B. Finance** 24 sem. hrs.  
 FIN310 International Finance (3)  
 FIN320 Business Finance (3)  
 ECON345 Money and Banking (3)  
 ACCT315 Intermediate Accounting I (3)  
 ACCT320 Intermediate Accounting II (3)  
 FIN 400 Financial Investment Analysis

Any two (2) courses at the 310 or higher level not taken elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MKTG, MGMT, PFP, or IENT.

- C. Intelligent Enterprise** 24 sem. hrs.  
 IENT300 ERP Integrated Business Process  
 IENT305 ERP Configuration  
 IENT310 Enterprise System Implementation  
 IENT315 Business Analytics  
 IENT400 ES Technologies and Digital Transformation  
 CSC1130 Principles of Programming I

Any two (2) courses at the 300 or higher level not taken or required elsewhere from the following prefixes: ACCT, BUAD, ECON, FIN, IENT, MKTG, MGMT, PFP.

- D. International Business** 24 sem. hrs.  
 BUAD310 Global Environment of Business (3)  
 WRLD100 Introduction to World Language and Culture (3)

International Business sequence:

- ECON310 International Economics (3)  
 FIN 310 International Finance (3)  
 MKTG310 International Marketing (3)

Note: Students may substitute BUAD410 or MGMT 310 in this category, if offered

Required related courses: Any three (3) courses at the 300 or higher level not taken elsewhere required within the **same** prefix among ACCT, ECON, FIN, MGMT, MKTG, PFP, or IENT.

- E. 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, PFP, or IENT. (9)\*\*\*\*

\*\*\*\*No more than 3 semester hours may be MKTG.

- F. Personal Financial Planning** 21 sem. hrs.  
 ACCT330 Federal Individual- Income Tax (3)  
 ECON345 Money and Banking (3)  
 FIN 400 Financial Investment Analysis (3)  
 PFP410 Personal Financial Planning Profession  
 PFP430 Retirement Planning and Employee Benefits (3)  
 PFP440 Estate Planning (3)  
 PFP475 Financial Plan Development (3)

- IV. Free Electives\*\*\*\*\*** 18 or 21 sem. hrs.

Comprehensive Business Administration, Finance, Intelligent Enterprise, International Business and Marketing have 18 semester hours of free electives.

Personal Financial Planning has 21 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)**

**COMPREHENSIVE BUSINESS ADMINISTRATION, FINANCE, INTELLIGENT ENTERPRISE, INTERNATIONAL BUSINESS, MARKETING, PERSONAL FINANCIAL PLANNING**

**COMPREHENSIVE BUSINESS ADMINISTRATION CONCENTRATION**

**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)  |
| ENGL101 | Applied Mathematics for Business (3)  |
| MATH150 | Core 6 Ethics course  |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

- |         |                                    |
|---------|------------------------------------|
| ECON220 | Principles of Microeconomics (3)   |
| ENGL102 | Research Writing (3)               |
|         | General Education Core Courses (9) |
|         | TOTAL 15 sem. hrs.                 |

**Third Semester**

- |                   |                                   |
|-------------------|-----------------------------------|
| ACCT215           | Principles of Accounting (3)      |
| ECON225           | Principles of Macroeconomics (3)  |
| Dist 1 Course (3) |                                   |
| STAT260           | Elements of Statistics (3)        |
|                   | 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) |
| PFP360  | Personal Financial Planning             |
|         | 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)       |
|         | General Education Core Course (3) |
|         | Free Elective (3)                 |
|         | TOTAL 15 sem. hrs.                |

**Sixth Semester**

- |         |  |
|---------|--|
| BUAD001 | Career Preparation Seminar: Business (0)                             |
| BUAD320 | Information Resource Management (3)                                  |
|         | One Upper-level FIN, MGMT, MKTG, PFP, ECON and/or IENT Course(s) (9) |
|         | Free Elective(s) (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**

- |         |   |
|---------|---|
| MGMT310 | Comp Management or higher (3)               |
|         | Upper-level Business Elective Course(s) (6) |
|         | Free Elective(s) (6)                        |
|         | TOTAL 15 sem. hrs.                          |

**Eighth Semester**

- |         |                                      |
|---------|--------------------------------------|
| BUAD475 | Business Decision Making (3)         |
|         | Upper-level Business Elective(s) (6) |
|         | Free Electives (6)                   |
|         | TOTAL 15 sem. hrs.                   |

**FINANCE CONCENTRATION****First Semester**

|         |   |
|---------|---|
| BUAD000 | Business Primer (0)   |
| BUAD160 | Business in Society (3)   |
| CSCI104 | Essentials of Computing I (3) or<br>Discipline-specific Computer<br>Competency Course |
| ENGL101 | College Writing Skills (3)  |
| MATH150 | Applied Mathematics for Business (3)  |
|         | Core 6 Ethics course  |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

|         |                                    |
|---------|------------------------------------|
| ECON220 | Principles of Microeconomics (3)   |
| ENGL102 | Research Writing (3)               |
|         | General Education Core Courses (9) |
|         | TOTAL 15 sem. hrs.                 |

**Third Semester**

|                   |                                   |
|-------------------|-----------------------------------|
| ACCT215           | Principles of Accounting (3)      |
| ECON225           | Principles of Macroeconomics (3)  |
| Dist 1 Course (3) |                                   |
| STAT260           | Elements of Statistics (3)        |
|                   | 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) |
| FPF360  | Personal Financial Planning             |
|         | General Education Core Course (3)       |
|         | TOTAL 15 sem. hrs.                      |

**Fifth Semester**

|         |                                   |
|---------|-----------------------------------|
| ACCT315 | Intermediate Accounting I (3)     |
| FIN300  | Principles of Finance (3)         |
| MKTG300 | Principles of Marketing (3)       |
|         | General Education Core Course (3) |
|         | Free Elective (3)                 |
|         | TOTAL 15 sem. hrs.                |

**Sixth Semester**

|         |                                   |
|---------|-----------------------------------|
| MGMT300 | Principles of Management (3)      |
| ACCT320 | Intermediate Accounting II (3)    |
| FIN 400 | Financial Investment Analysis (3) |
| ECON345 | Money and Banking (3)             |
|         | Free Elective(s) (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**

|         |   |
|---------|---|
| BUAD001 | Career Preparation Seminar: Business (0)    |
| BUAD320 | Information Resource Management (3)         |
| FIN310  | International Finance (3)                   |
|         | Upper-level Business Elective Course(s) (3) |
|         | Free Elective(s) (6)                        |
|         | TOTAL 15 sem. hrs.                          |

**Eighth Semester**

|         |  |
|---------|--|
| BUAD475 | Business Decision Making (3)             |
| FIN320  | Business Finance (3)                     |
|         | Upper-level Business Elective Course (3) |
|         | Free Electives (6)                       |
|         | TOTAL 15 sem. hrs.                       |

**INTELLIGENT ENTERPRISE****First Semester**

|         |   |
|---------|---|
| BUAD000 | Business Primer (0)   |
| BUAD160 | Business in Society (3)   |
| CSCI104 | Essentials of Computing I (3) or<br>Discipline-specific Computer<br>Competency Course |
| ENGL101 | College Writing Skills (3)  |
| MATH150 | Applied Mathematics for Business (3)  |
|         | Core 6 Ethics course  |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

|         |                                    |
|---------|------------------------------------|
| ECON220 | Principles of Microeconomics (3)   |
| ENGL102 | Research Writing (3)               |
|         | General Education Core Courses (9) |
|         | TOTAL 15 sem. hrs.                 |

**Third Semester**

|         |                                   |
|---------|-----------------------------------|
| ACCT215 | Principles of Accounting (3)      |
| ECON225 | Principles of Macroeconomics (3)  |
| BUAD260 | Business Law I (3)                |
| STAT260 | Elements of Statistics (3)        |
|         | General Education Core Course (3) |
|         | TOTAL 15 sem. hrs.                |

**Fourth Semester**

|                   |   |
|-------------------|---|
| ACCT220           | Principles of Accounting II (3)         |
| Dist 1 Course (3) |   |
| QUAN340           | Statistics for Business & Economics (3) |
| FPF360            | Personal Financial Planning             |
|                   | General Education Core Course (3)       |
|                   | TOTAL 15 sem. hrs.                      |

**Fifth Semester**

|         |  |
|---------|--|
| BUAD320 | Introduction to Enterprise Systems (3) |
| FIN300  | Principles of Finance (3)              |
| MKTG300 | Principles of Marketing (3)            |
|         | General Education Core Course (3)      |
|         | Free Electives (3)                     |
|         | TOTAL 15 sem. hrs.                     |

**Sixth Semester**

|         |                                       |
|---------|---------------------------------------|
| MGMT300 | Principles of Management (3)          |
| IEN300  | ERP Integrated Business Process (3)   |
| IEN305  | ERP Configuration (3)                 |
| IEN310  | Enterprise Systems Implementation (3) |
|         | Free Elective (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**

|                    |                                 |
|--------------------|---------------------------------|
| BUAD001            | Career Prep Seminar (0)         |
| IEN315             | Business Analytics (3)          |
| IEN400             | ES Technologies & Digital       |
| Transformation (3) |                                 |
| CSCI130            | Principles of Programming I (3) |
|                    | Free Electives (6)              |
|                    | TOTAL 15 sem. hrs.              |

**Eighth Semester**

|         |  |
|---------|--|
| BUAD475 | Business Decision Making (3)                           |
|         | Upper-level Required Related<br>Business Course(s) (6) |
|         | Free Elective(s) (6)                                   |
|         | TOTAL 15 sem. hrs.                                     |

**INTERNATIONAL BUSINESS****First Semester**

|         |   |
|---------|---|
| BUAD000 | Business Primer (0)   |
| BUAD160 | Business in Society (3)   |
| CSCI104 | Essentials of Computing I (3) or<br>Discipline-specific Computer<br>Competency Course |
| ENGL101 | College Writing Skills (3)  |
| MATH150 | Applied Mathematics for Business (3)<br>Core 6 Ethics course                          |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

|         |  |
|---------|--|
| ECON220 | Principles of Microeconomics (3)                             |
| ENGL102 | Research Writing (3)   |
| WRLD100 | Intro to World Language & Culture (3)                        |
| GEOG130 | Cultural Geography (3)<br>General Education Core Courses (3) |
|         | TOTAL 15 sem. hrs.   |

**Third Semester**

|         |   |
|---------|---|
| ACCT215 | Principles of Accounting (3)                                    |
| ECON225 | Principles of Macroeconomics (3)<br>Dist 1 Course (3)           |
| STAT260 | Elements of Statistics (3)<br>General Education Core Course (3) |
|         | TOTAL 15 sem. hrs.  |

**Fourth Semester**

|         |   |
|---------|---|
| ACCT220 | Principles of Accounting II (3)         |
| BUAD260 | Business Law I (3)                      |
| COMM220 | Intercultural Communication (3)         |
| QUAN340 | Statistics for Business & Economics (3) |
| PFP360  | Personal Financial Planning             |
|         | TOTAL 15 sem. hrs.                      |

**Fifth Semester**

|         |   |
|---------|---|
| BUAD310 | Global Environment of Business (3)                |
| FIN300  | Principles of Finance (3)                         |
| MKTG300 | Principles of Marketing (3)<br>Free Electives (6) |
|         | TOTAL 15 sem. hrs.                                |

**Sixth Semester**

|         |  |
|---------|--|
| BUAD001 | Career Prep Seminar (0)  |
| MGMT300 | Principles of Management (3)<br>Global Business Sequence<br>(ECON310, FIN310, or MKTG310) (3)<br>Upper-level Required Related<br>Business Course (3)<br>Free Electives (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 electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

**Seventh Semester**

|         |  |
|---------|--|
| BUAD320 | Introduction to Enterprise Systems (3)<br>Global Business Sequence<br>(ECON310, FIN310, or MKTG310) (3)<br>Upper-level Required Related<br>Business Course (3)<br>Free Electives (6) |
|         | TOTAL 15 sem. hrs.   |

**Eighth Semester**

|         |  |
|---------|--|
| BUAD475 | Business Decision Making (3)<br>Global Business Sequence<br>(ECON310, FIN310, or MKTG310) (3)<br>Upper-level Required Related<br>Business Course (3)<br>Free Electives (6) |
|         | TOTAL 15 sem. hrs.   |

**MARKETING CONCENTRATION****First Semester**

|         |   |
|---------|---|
| BUAD000 | Business Primer (0)   |
| BUAD160 | Business in Society (3)   |
| CSCI104 | Essentials of Computing I (3) or<br>Discipline-specific Computer<br>Competency Course |
| ENGL101 | College Writing Skills (3)  |
| MATH150 | Applied Mathematics for Business (3)<br>Core 6 Ethics course                          |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

|         |  |
|---------|--|
| ECON220 | Principles of Microeconomics (3)                           |
| ENGL102 | Research Writing (3)<br>General Education Core Courses (9) |
|         | TOTAL 15 sem. hrs.   |

**Third Semester**

|         |   |
|---------|---|
| ACCT215 | Principles of Accounting (3)                                    |
| ECON225 | Principles of Macroeconomics (3)                                |
| BUAD260 | Business Law(3)   |
| STAT260 | Elements of Statistics (3)<br>General Education Core Course (3) |
|         | TOTAL 15 sem. hrs.  |

**Fourth Semester**

|         |  |
|---------|--|
| ACCT220 | Principles of Accounting II (3)<br>Dist 1 Course (3)             |
| QUAN340 | Statistics for Business & Economics (3)                          |
| PFP360  | Personal Financial Planning<br>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)<br>General Education Core Course (3)<br>Free Electives (3) |
|         | TOTAL 15 sem. hrs.   |

**Sixth Semester**

|         |   |
|---------|---|
| BUAD001 | Career Preparation Seminar (0)  |
| BUAD320 | Introduction to Enterprise Systems (3)  |
| MKTG340 | Consumer Behavior (3)<br>One Upper Level Marketing Course<br>MKTG 300 or higher (3)<br>One Upper-level Required Related<br>Upper-level Business Elective(s) (3)<br>Free Elective(s) (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**

|         |  |
|---------|--|
| BUAD475 | Business Decision Making (3)   |
| MKTG320 | Advertising and Promotion (3)  |
| MKTG410 | Marketing Research (3)<br>Upper Level Marketing Course<br>MKTG 300 or higher (3)<br>Free Elective(s) (3) |
|         | TOTAL 15 sem. hrs.   |

**Eighth Semester**

|         |   |
|---------|---|
| MKTG475 | Marketing Analysis and Planning (3)<br>Upper-level Required Related<br>Business Course(s) (6)<br>Free Elective(s) (6) |
|         | TOTAL 15 sem. hrs.  |

**PERSONAL FINANCIAL PLANNING CONCENTRATION****First Semester**

|         |   |
|---------|---|
| BUAD000 | Business Primer (0)   |
| BUAD160 | Business in Society (3)   |
| CSCI104 | Essentials of Computing I (3) or<br>Discipline-specific Computer<br>Competency Course |
| ENGL101 | College Writing Skills (3)  |
| MATH150 | Applied Mathematics for Business (3)<br>Core 6 Ethics course                          |
|         | TOTAL 15 sem. hrs.  |

**Second Semester**

|         |                                    |
|---------|------------------------------------|
| ECON220 | Principles of Microeconomics (3)   |
| ENGL102 | Research Writing (3)               |
|         | General Education Core Courses (9) |
|         | TOTAL 15 sem. hrs.                 |

**Third Semester**

|                   |                                   |
|-------------------|-----------------------------------|
| ACCT215           | Principles of Accounting (3)      |
| ECON225           | Principles of Macroeconomics (3)  |
| Dist 1 Course (3) |                                   |
| STAT260           | Elements of Statistics (3)        |
|                   | General Education Core Course (3) |
|                   | TOTAL 15 sem. hrs.                |

**Fourth Semester**

|         |   |
|---------|---|
| ACCT220 | Principles of Accounting II (3)         |
| BUAD260 | Business Law I (3)                      |
| QUAN340 | Statistics for Business & Economics (3) |
| PFP360  | Personal Financial Planning             |
|         | General Education Core Course (3)       |
|         | TOTAL 15 sem. hrs.                      |

**Fifth Semester**

|         |                                   |
|---------|-----------------------------------|
| MGMT300 | Principles of Management (3)      |
| FIN300  | Principles of Finance (3)         |
| MKTG300 | Principles of Marketing (3)       |
| ACCT330 | Federal Individual Income Tax (3) |
|         | Free Elective(s) (3)              |
|         | TOTAL 15 sem. hrs.                |

**Sixth Semester**

|         |                                   |
|---------|-----------------------------------|
| BUAD001 | Career Preparation Seminar (0)    |
| BUAD320 | Information Resource Mgmt. (3)    |
| FIN 400 | Financial Investment Analysis (3) |
| ECON345 | Money and Banking (3)             |
|         | General Ed Core Course (3)        |
|         | General Education Core Course (3) |
|         | Free Elective(s) (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**

|        |  |
|--------|--|
| PFP410 | Personal Financial Planning Profession         |
| PFP430 | Retirement Planning & Employee<br>Benefits (3) |
| PFP440 | Estate Planning (3)                            |
|        | Free Elective(s) (6)                           |
|        | TOTAL 15 sem. hrs.                             |

**Eighth Semester**

|         |                                |
|---------|--------------------------------|
| BUAD475 | Business Decision Making (3)   |
| PFP475  | Financial Plan Development (3) |
|         | Free Elective(s) (9)           |
|         | TOTAL 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 MATH090 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 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 2.00 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                           | Research Writing (3)               |
| MATH150                           | Math for Business (3)              |
| CSCI104 or                        | Essentials of Computing I (3)      |
| ACCT221                           | Accounting Information Systems (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)  |               |
|                               | Science and Mathematics (3)   |               |
|                               | STAT260 is used to meet the Science and Mathematics Distribution requirement  |               |
| II. Economics Courses         |   | 30 sem. hrs.  |
| A. Required Economics Courses |   | 18 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)   |               |
|                               | ECON420 Econometrics (3)  |               |
| B. Economics Electives        |   | 12 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)  |               |
|                               | STAT 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. |               |
|                               | TOTAL   | 120 sem. hrs. |

**BACHELOR OF SCIENCE – ECONOMICS**  
**(Suggested Eight-Semester Sequence)**

**First Semester**

|                    |   |              |
|--------------------|---|--------------|
| CSCI104 or ACCT221 | Essentials of Computing I (3) or Accounting Information Systems (3) |              |
| ECON225            | Principles of Macroeconomics (3)                                    |              |
| ENGL101            | College Writing Skills (3)  |              |
| MATH150            | Math for Business (3)   |              |
|                    | General Education Core Course (3)                                   |              |
|                    | TOTAL   | 15 sem. hrs. |

**Second Semester**

|         |                                   |              |
|---------|-----------------------------------|--------------|
| ECON220 | Principles of Microeconomics (3)  |              |
| ENGL102 | Research Writing (3)              |              |
| STAT260 | Elements of Statistics (3)        |              |
|         | General Education Core Course (3) |              |
|         | Free Elective(s) (3)              |              |
|         | TOTAL                             | 15 sem. hrs. |

**Third Semester**

|         |   |              |
|---------|---|--------------|
| ACCT215 | Principles of Accounting I (3)            |              |
| ECON319 | Intermediate Economic Theory: Macro (3)   |              |
| QUAN340 | Statistics for Business and Economics (3) |              |
|         | General Education Core Courses (6)        |              |
|         | TOTAL                                     | 15 sem. hrs. |

**Fourth Semester**

|         |   |              |
|---------|---|--------------|
| ACCT220 | Principles of Accounting II (3)         |              |
| ECON320 | Intermediate Economic Theory: Micro (3) |              |
|         | General Education Core Courses (9)      |              |
|         | TOTAL                                   | 15 sem. hrs. |

**Fifth Semester**

|        |                                     |              |
|--------|-------------------------------------|--------------|
| FIN300 | Principles of Finance (3)           |              |
|        | Upper-level Economics Elective (3)* |              |
|        | General Education Core Course (3)   |              |
|        | Free Elective(s) (6)                |              |
|        | TOTAL                               | 15 sem. hrs. |

**Sixth Semester**

|  |   |              |
|--|---|--------------|
|  | Upper-level Economics Elective (6)*       |              |
|  | General Education Distribution Course (3) |              |
|  | Free Elective(s) (6)                      |              |
|  | TOTAL                                     | 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**

|  |                                    |              |
|--|------------------------------------|--------------|
|  | Upper-level Economics Elective (3) |              |
|  | Free Elective(s) (9)               |              |
|  | General Education Core Course (3)  |              |
|  | TOTAL                              | 15 sem. hrs. |

**Eighth Semester**

|         |                       |              |
|---------|-----------------------|--------------|
| ECON420 | Econometrics (3)      |              |
|         | Free Elective(s) (12) |              |
|         | TOTAL                 | 15 sem. hrs. |

\*Numbered 310 or above

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 MATH090 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.

# School of Education

## MISSION

We are committed to improving the physical health, mental health, and education of the region's children and their families.

## PRIORITIES

- Produce the best possible educators, educational leaders, and other professionals
- Engage with our community partners to impact the lives of the people of this region
- Improve our disciplines through scholarship and research-based activities.

Edinboro University prepares highly qualified teacher candidates and related professionals who effectively facilitate learning. Through knowledge, skills, dispositions, experiences and understanding of our diverse and global society, our candidates successfully contribute to the future of their students, to their own professional development, and to the well-being of the larger community.

## 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 the Accreditation of Educator Preparation (CAEP).

All programs are aligned with the appropriate national and state content and pedagogical standards. In addition, all undergraduate programs are aligned with the Interstate Teacher Assessment and Support Consortium (InTASC).

## 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. Earn a minimum undergraduate cumulative quality point average of 2.80.
2. Achieve passing scores on the following PAPA, Core, SAT or ACT exams in reading, writing, and mathematics.
3. Successfully complete six semester hours of college level mathematics (Math 104, 105, 107, 110, or 210) according to your program of study.
4. Successfully complete nine hours of English, (including English 101, English 102 and a literature course.)
5. Successfully complete SEDU271 Multiculturalism in American Schools.
6. Successfully complete SPED 210 Introduction to Exceptionalities/Special Education.
7. Met with education advisor.
8. If majoring in Early Childhood or Early Childhood/Special Education complete ECED120. 9.If majoring in health and physical education, complete HPE133, HPE220, HPE225, or HPE230.
9. Submit all required clearances.

Students are not eligible to enroll in upper level education courses or stage II field experiences until they are admitted to candidacy. Students must submit the *Application for Admission to Teacher Candidacy* to the Office of Clinical Experiences and Partnerships when all conditions of teacher candidacy are met. Please attach a copy of your degree evaluation and score report of the PAPA, Core, ACT, or SAT 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. 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, 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.

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. Applications for student teaching are available in the Office of Clinical Experiences and Partnerships.

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 must 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 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. Maintain a cumulative grade point average of at least 2.80. (Note: minimum GPA requirement for graduation and certification is 3.0).
2. Complete at least 96 semester hours of undergraduate credit.
3. Register, attempt, or pass all Praxis II or PECT tests required by the Pennsylvania Department of Education for certification in the candidate's subject area.
4. Complete with a C or better all professional education courses required within the individual's curriculum including the Stage 3 Field Experience.
5. Complete with a grade of C or better the course SEDU283, ARED283 or HPE384 (a computer technology course specifically designed for education).
6. Renew all required clearances 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. Earned a bachelor's degree in an approved program in teacher education or have completed an approved post-baccalaureate certification program.
2. A minimum cumulative quality point average of 3.0.
3. Earned a grade of C or better in student teaching.

Teacher candidates must meet the state certification requirements, including testing, that are in effect *at the time at which they apply for certification*.

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## Counseling, School Psychology, and Special Education Department

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**FACULTY:** Erik Bentsen, Kevon Bruce, Adrienne Dixon, Joel Erion, Jean Faieta, Meghan Ferraro, Julaine Field, Juanita Kasper, Sheila Lorenzo de la Pena, Mary Nientimp, Sujata Norman, Penny Orr, Susan Packard, Everett Painter, Edward Snyder, Carolyn Treadon, Katherine Wardi-Zonna

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## Early Childhood and Reading Department

**FACULTY:** Kristina Bodamer, Kathleen Dailey, Robin Howell, Heather Kenny, Michelle Kimmy, Karen Lindeman, Mary Jo Melvin, Kristin Webber.

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## Associate of Science Degree

### Preschool Education

The Department of Early Childhood and Reading 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                           | Research Writing (3)  |
|      | MATH103                           | Mathematics for Teachers of Children I (3)                                |
|      | SEDU283                           | Technology for Teaching and Learning (3)                                  |
|      | B. Core                           | 15 sem. hrs.  |
|      |                                   | Artistic Expression (3)   |
|      |                                   | World Civilizations GEOG101 (3)   |
|      |                                   | American Civilizations HIST261 (3) or HIST262 (3)                         |
|      |                                   | Human Behavior PSYC101 (3)  |
|      |                                   | Cultural Diversity & Social Pluralism SEDU271 (3)                         |
| II.  | ECED Competency Areas             | 33 sem. hrs.  |
|      | ECED120                           | Introduction to Early Childhood Education (3)                             |
|      | ECED150                           | Child Development (3)   |
|      | ECED200                           | Planning, Designing and Maintaining the Early Learning Environment (3)    |
|      | ECED210                           | Play and Active Learning Approaches to ECE (3)                            |
|      | ECED240                           | Children's Literature (3)   |
|      |                                   | PRE-K/K Block with 75 Hours of Field                                      |
|      | ECED241                           | Language and Literacy (3)   |
|      | ECED242                           | Integrating Math and Science in the Early Years (3)                       |
|      | ECED243                           | Creative Expressive Arts (3)  |
|      | ECED245                           | Build. Partner/Clinical Exp. PreK-K (3)                                   |
|      | ECED281                           | Observation Documentation and Assessment in Early Childhood Education (3) |
| III. | Special Education Competency Area | 3 sem. hrs.   |
|      | SPED210                           | Introduction to Exceptionalities (3)                                      |
|      |                                   | <b>TOTAL 60 sem. hrs.</b>   |

## ASSOCIATE OF SCIENCE – PRESCHOOL EDUCATION (Suggested Four-Semester Sequence)

### First Semester

|          |  |
|----------|--|
| ENGL101  | College Writing Skills (3)*                |
| MATH103  | Mathematics for Teachers of Children I (3) |
| PSYC101  | Introduction to Psychology (3)*            |
| SEDU271  | Multiculturalism Amer Schools (3)          |
| GEOG 101 | World Geography (3) OR                     |
| HIST 261 | History of US 1 (3) OR                     |
| HIST 262 | History of US 2 (3)                        |
|          | TOTAL 15 sem. hrs.                         |

### Second Semester

|          |  |
|----------|--|
| ENGL102  | Research Writing (3)                     |
| SPED210  | Introduction to Exceptionalities (3)     |
| SEDU283  | Technology for Teaching and Learning (3) |
| GEOG 101 | World Geography (3) OR                   |
| HIST 261 | History of US 1 (3) OR                   |
| HIST 262 | History of US 2 (3)                      |
| Core 1   | Literature Course (3)                    |
|          | TOTAL 15 sem. hrs.                       |

### 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)                |
| ECED240 | Children's Literature (3)  |
| ECED120 | Intro to Early Childhood Education (3)   |
|         | TOTAL 15 sem. hrs.   |

### Fourth Semester

|         |  |
|---------|--|
|         | PreK/K Block ***75 hours of field***                 |
| ECED241 | Language and Literacy (3)                            |
| ECED242 | Integrating Math and Science (3)                     |
| ECED243 | Creative Expressive Arts (3)                         |
| ECED245 | Building Partnerships/Clinical Experience PreK-K (3) |
| ECED281 | Observation, Documentation and Assessment in EDE (3) |
|         | TOTAL 15 sem. hrs.                                   |

## Bachelor of Science in Education Degree

### Early Childhood Education

The Bachelor of Science in Early Childhood Education prepares candidates to meet the needs of students PreK through grade 4 in schools within 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 (P-4)

|      |                                      |  |
|------|--------------------------------------|--|
| I.   | General Education Requirements       | 42 sem. hrs.   |
| A.   | Skills                               | 12 sem. hrs.   |
|      | **ENGL101                            | College Writing (3)  |
|      | **ENGL102                            | Research Writing (3)   |
|      | **MATH103                            | Mathematics for Teachers of Children I (3)   |
|      | SEDU283                              | Technology for Teaching and Learning (3)   |
| B.   | Core                                 | 21 sem. hrs.   |
|      | GEOG101                              | **Artistic Expression (3)*<br>World Civilizations (3)  |
|      | HIST261 or                           | American Civilizations (3)   |
|      | HIST262                              |  |
|      | PSYC101                              | Human Behavior (3)   |
|      | ***SEDU 271                          | Cultural Diversity and Social Pluralism (3)<br>Multicult Am Schools<br>Ethics (3)  |
| C.   | Distribution                         | 9 sem. hrs.  |
|      | **MATH203                            | **Humanities and Fine Arts (3)*<br>Social and Behavioral Sciences (3)<br>Natural Sciences and Mathematics<br>Mathematics for Teachers of Children II (3) |
| II.  | ECED Competency Areas                | 51 sem. hrs.   |
| A.   | <b>Pre-Candidacy (30 sem. hrs.)</b>  |  |
|      | **ECED120                            | Introduction to Early Childhood Education (3)  |
|      | ECED150                              | Child Development (3)  |
|      | ECED200                              | Plan/Design/Maintain Early Learning Environment (3)  |
|      | ECED210                              | Play and Active Learning Approaches to ECE (3)   |
|      | ECED240                              | Children's Literature (3)  |
|      |                                      | <b>Pre-K/K Block (75 hours of field)</b>   |
|      | ECED241                              | Language and Literacy (3)  |
|      | ECED242                              | Integrating Math/Science Early Years (3)   |
|      | ECED243                              | Creative Expressive Arts (3)   |
|      | ECED245                              | Building Partnerships/Clinical Experience PreK-K (3)   |
|      | ECED281                              | Observe/Doc/Assess Early Childhood Education (3)   |
| B.   | <b>Post-Candidacy (21 sem. hrs.)</b> |  |
|      | ECED320                              | Literacy Foundations Grades 1-4 (3)  |
|      | ECED330                              | Language Arts Grades 1-4 (3)   |
|      |                                      | <b>Primary/Methods Block (75 hours of field)</b>   |
|      | 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)   |
|      | ECED375                              | Classroom Guidance/Clinical Experience Grades 1-4 (3)  |
| III. | SPED Competency Areas                | 6 sem. hrs.  |
|      | **SPED210                            | Introduction to Exceptionalities (3)   |
|      | †SPED370                             | Adaptations and Accommodations (3)   |
| IV.  | Professional Education               | 15 sem. hrs.   |
|      | ECED480                              | Data Driven Assessment for Student Learning (3)  |
|      | ECED495                              | Student Teaching (12)  |



|                        |                           |               |
|------------------------|---------------------------|---------------|
| IV. Supporting Courses |                           | 6 sem. hrs.   |
| BIOL102                | Environmental Biology (3) |               |
|                        | Elective (3)              |               |
|                        | TOTAL                     | 120 sem. hrs. |

\* 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 (P-4)**  
**(Suggested Eight-Semester Sequence)**

**First Semester**

|          |  |              |
|----------|--|--------------|
| PSYC101  | Introduction to Psychology-Core 4 (3)    |              |
| ENGL 101 | College Writing Skills (3)               |              |
| MATH 103 | Math for Teachers I (3)                  |              |
| SEDU271  | Multicultural Am Schools Core 5(3)       |              |
|          | General Education Course-Core Course (3) |              |
|          | Freshman Common Hour                     |              |
|          | TOTAL                                    | 15 sem. hrs. |

**Second Semester**

|          |                                      |              |
|----------|--------------------------------------|--------------|
| ECED 120 | Introduction to ECE (3)              |              |
| ECED150  | Child Development (3)                |              |
| SPED 210 | Introduction to Exceptionalities (3) |              |
| ENGL 102 | Writing/Research (3)                 |              |
| MATH 203 | Math for Teachers II (3)             |              |
|          | Take PAPA/CORE Exams                 |              |
|          | TOTAL                                | 15 sem. hrs. |

**Third Semester**

|          |                               |              |
|----------|-------------------------------|--------------|
| ECED 240 | Children’s Literature(3)      |              |
| SEDU 183 | Tech for Teach/Learn (3)      |              |
|          | English Literature Course (3) |              |
|          | General Education (6)         |              |
|          | TOTAL                         | 15 sem. hrs. |

**Fourth Semester**

|          |  |              |
|----------|--|--------------|
| ECED 200 | Planning, Designing and Managing the EC Learning Environment (3) |              |
| ECED 210 | Play and Active Learning Approaches to ECE (3)                   |              |
|          | General Education Courses(9)                                     |              |
|          | Apply for Candidacy  |              |
|          | Apply for PreK/K Block   |              |
|          | TOTAL  | 15 sem. hrs. |

**Fifth Semester**

|             |  |              |
|-------------|--|--------------|
| PK/K Block: |  |              |
| ECED 241    | Language and Literacy (3)                            |              |
| ECED 242    | Integrating Math and Science in the Early Years (3)  |              |
| ECED 243    | Creative Expressive Arts (3)                         |              |
| ECED 245    | Building Partnerships/Clinical Experience PreK-K (3) |              |
| ECED 281    | Observation, Documentation and Assessment in ECE (3) |              |
|             | TOTAL  | 15 sem. hrs. |

**Sixth Semester**

|          |                                       |              |
|----------|---------------------------------------|--------------|
|          | Literacy Block                        |              |
| ECED 320 | Literacy Foundations Grades 1-4 (3)   |              |
| ECED 330 | Language Arts Grades 1-4 (3)          |              |
| ECED370  | Differentiated Reading/Grades 1-4 (3) |              |
|          | General Education Courses- (6)        |              |
|          | Apply for Primary-4 Block grades 1-4  |              |
|          | TOTAL                                 | 15 sem. hrs. |

**Seventh Semester**

|          |   |              |
|----------|---|--------------|
| ECED 340 | Primary Block   |              |
| ECED 350 | Methods of Teaching Social Studies (3)                |              |
| ECED 360 | Learning and Teaching Math Grades 1-4 (3)             |              |
| ECED 375 | Learning and Teaching Science Grades 1-4 (3)          |              |
| SPED 370 | Classroom Guidance/Clinical Experience Grades 1-4 (3) |              |
|          | Adaptations and Accommodations (3)                    |              |
|          | Apply for Student Teaching                            |              |
|          | Complete all PECT exams for certification             |              |
|          | TOTAL   | 15 sem. hrs. |

**Eighth Semester**

|          |   |              |
|----------|---|--------------|
| ECED 495 | Student Teaching (12)                           |              |
| ECED 480 | Data Driven Assessment for Student Learning (3) |              |
|          | Apply for PA Certification                      |              |
|          | TOTAL   | 15 sem. hrs. |

**EARLY CHILDHOOD EDUCATION (P-4) & DEAF EDUCATION (P-12)**

|                                   |   |              |
|-----------------------------------|---|--------------|
| I. General Education Requirements |   | 42 sem. hrs. |
| A. Skills                         |   | 12 sem. hrs. |
| ENGL101                           | College Writing (3)                                   |              |
| ENGL102                           | Research Writing (3)                                  |              |
| MATH103                           | Mathematics for Teachers of Children I (3)            |              |
| SEDU283                           | Technology for Teaching and Learning (3)              |              |
| B. Core                           |   | 21 sem. hrs. |
|                                   | **Artistic Expression (3)*                            |              |
|                                   | World Civilizations – GEOG101 (3)                     |              |
|                                   | American Civilizations – HIST261 or HIST262 (3)       |              |
| PSYC101                           | Human Behavior (3)                                    |              |
| ***SEDU 271                       | Cultural Diversity and Social Pluralism (3)           |              |
|                                   | Multicult Am Schools Ethics (3)                       |              |
|                                   | Natural Science – PHYS101 (3)                         |              |
| C. Distribution                   |   | 9 sem. hrs.  |
|                                   | **Humanities and Fine Arts (3)*                       |              |
|                                   | Social and Behavioral Sciences (3)                    |              |
|                                   | Natural Sciences and Mathematics                      |              |
| **MATH203                         | Mathematics for Teachers II (3)                       |              |
| II. ECED Competency Areas         |   | 42 sem. hrs. |
| A. Pre-Candidacy                  |   | 24 sem. hrs. |
| **ECED120                         | Introduction to Early Childhood Education (3)         |              |
| ECED150                           | Child Development (3)                                 |              |
| ECED210                           | Play and Active Learning Approaches to ECE (3)        |              |
| ECED240                           | Children’s Literature (3)                             |              |
| ECED241                           | Language and Literacy (3)                             |              |
| ECED242                           | Integrating Math/Science Early Years (3)              |              |
| ECED243                           | Creative Expressive Arts (3)                          |              |
| ECED245                           | Building Partnerships/Clinical Experience PreK-K (3)  |              |
| B. Post-Candidacy                 |   | 18 sem. hrs. |
| ECED320                           | Literacy Foundations Grades 1-4 (3)                   |              |
| ECED330                           | Language Arts Grades 1-4 (3)                          |              |
| 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)       |              |
| ECED375                           | Classroom Guidance/Clinical Experience Grades 1-4 (3) |              |

|                            |   |
|----------------------------|---|
| III. DHOH Competency Areas | 36 sem. hrs.  |
| **SPED210                  | Introduction to Exceptionalities (3)  |
| CSD230                     | Introduction to Audiology (3)   |
| EDHH240                    | Introduction to Deaf Education (3)  |
| SPED240                    | Managing Inclusive Learning (3)   |
| SPED267                    | American Sign Language and the Deaf Culture I (3)                             |
| SPED268                    | American Sign Language and the Deaf Culture II (3)                            |
| EDHH350                    | Language and Literacy Skills for Students Who Are Deaf or Hard of Hearing (3) |
| CSD330                     | Managing Language Disorders (3)   |
| SPED430                    | Collaboration And IEP Development (3)   |
| CSD515                     | Audiological Rehabilitation (3)   |
| EDHH420                    | Strategies and Assessments for Students Who Are Deaf or Hard of Hearing (3)   |
| EDHH445                    | Field Experience in Deaf Education (3)  |

|                            |   |
|----------------------------|---|
| IV. Professional Education | 15 sem. hrs.                                    |
| ECED480                    | Data driven Assessment for Student Learning (3) |
| ECED495                    | Student Teaching (6)                            |
| EDHH495                    | Student Teaching in Deaf Education (6)          |

|                        |                           |
|------------------------|---------------------------|
| IV. Supporting Courses | 3 sem. hrs.               |
| BIOL102                | Environmental Biology (3) |
|                        | TOTAL 138 sem. hrs.       |

\* 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

**EARLY CHILDHOOD EDUCATION (P-4) & DEAF EDUCATION (P-12)**  
**(Suggested Eight-Semester Sequence)**

**First Semester**

|         |  |
|---------|--|
| PSYC101 | Introduction to Psychology-Core 4 (3)      |
| ENGL101 | College Writing Skills (3)                 |
| MATH103 | Mathematics for Teachers of Children I (3) |
| SEDU271 | Multicultural Am Schools –Core 5 (3)       |
|         | Core 6 Ethics Course (3)                   |
|         | Freshman Common hour                       |
|         | TOTAL 15 sem. hrs.                         |

**Second Semester**

|         |   |
|---------|---|
| ENGL102 | Writing/Research (3)                        |
| MATH203 | Mathematics for Teachers Distribution 3 (3) |
| HIST261 | History of US 1-Core 3 (3) OR               |
| HIST262 | History of US 2-Core 3 (3)                  |
| ECED150 | Child Development (3)                       |
| EDHH240 | Introduction to Deaf Education (3)          |
| SPED210 | Introduction to Exceptionalities (3)        |
|         | TOTAL 18 sem. hrs.                          |

**Third Semester**

|         |                                       |
|---------|---------------------------------------|
|         | Core 1 Literature Course (3)          |
| SEDU183 | Tech for Teach/Learn (3)              |
| ECED120 | Into to Early Childhood Education (3) |
| SPED240 | Managing Inclusive Learning (3)       |
| SPED267 | ASL & Deaf Culture (3)                |
| BIOL102 | Environmental Biology (3)             |
|         | TOTAL 18 sem. hrs.                    |

**Fourth Semester**

|         |   |
|---------|---|
|         | Distribution 1 (Literature Course) (3)              |
|         | Distribution 2 (Social and Behavioral Sciences) (3) |
| ECED210 | Play and Active Learning Approaches to ECE (3)      |
| ECED240 | Children’s Literature (3)                           |
| CSD230  | Introduction to Audiology (3)                       |
| SPED268 | ASL & Deaf Culture II (3)                           |
|         | TOTAL 18 sem. hrs.                                  |

**Fifth Semester**

|         |   |
|---------|---|
| ECED241 | Language and Literacy (3)                           |
| ECED242 | Integrating Math and Science in the Early Years (3) |
| ECED243 | Creative Expressive Arts (3)                        |
| ECED245 | Building Partnerships/Clinical Experience (3)       |
| CSD330  | Communication for Deaf/Hard of Hearing (3)          |
| PHYS101 | Physical Science I -Core 7 (3)                      |
|         | TOTAL 18 sem. hrs.                                  |

**Sixth Semester**

|         |   |
|---------|---|
| ECED320 | Literacy Foundations Grades 1-4 (3)   |
| ECED330 | Language Arts Grades 1-4 (3)  |
| SPED430 | Collaboration and IEP Development (3)                                       |
| EDHH420 | Strategies and Assessments for Students Who Are Deaf or Hard of Hearing (3) |
| EDHH445 | Field Education in Deaf Education (3)                                       |
|         | Core 2 Geography (3)  |
|         | TOTAL 18 sem. hrs.  |

**Seventh Semester**

|         |   |
|---------|---|
| ECED340 | Methods of Teaching Social Studies (3)  |
| ECED350 | Methods of Teaching Math Grades 1-4 (3)                                       |
| ECED360 | Methods of Teaching Science Grades 1-4 (3)                                    |
| ECED375 | Classroom Guidance/Clinical Experience Grades 1-4 (3)                         |
| CSD515  | Audiological Rehabilitation (3)   |
| EDHH350 | Language and Literacy Skills for Students Who Are Deaf or Hard of Hearing (3) |
|         | TOTAL 18 sem. hrs.  |

**Eighth Semester**

|         |   |
|---------|---|
| ECED480 | Data Driven Assessment for Student Learning (3) |
| ECED495 | Student Teaching (6)                            |
| EDHH495 | Student Teaching in Deaf Education (6)          |
|         | TOTAL 15 sem. hrs.                              |

**CERTIFICATION IN EARLY CHILDHOOD (P-4) AND SPECIAL EDUCATION (P-8)**

The dual certification 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 within 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                                   | 42 sem. hrs.  |
| A.        | Skills   | 12 sem. hrs.  |
|           | **ENGL101  | College Writing (3)                                     |
|           | **ENGL102  | Research Writing (3)                                    |
|           | **MATH103  | Mathematics for Teachers of Children I (3)              |
|           | SEDU283  | Technology for Teaching and Learning (3)                |
| B.        | Core   | 21 sem. hrs.  |
|           | **Artistic Expression – <i>Literature</i> (3)                    |   |
|           | GEOG101  | World Civilizations (3)                                 |
|           | HIST261 or HIST262   | American Civilizations (3)                              |
|           | PSYC101  | Human Behavior (3)                                      |
|           | SEDU271  | Cultural Diversity and Social Pluralism (3)             |
|           | PHYS101  | Natural Science (3)                                     |
| C.        | Distribution   | 9 sem. hrs.   |
|           | **Humanities and Fine Arts - <i>Literature</i> (3)               |   |
|           | Social and Behavioral Sciences (3)                               |   |
|           | Natural Science and Mathematics- <i>Math for Teachers II</i> (3) |   |
| **MATH203 |  |   |
| II.       | ECED Competency Areas  | 42 sem. hrs.  |
| A.        | Pre-Candidacy  | 24 sem. hrs.  |
|           | ECED120  | **Introduction to Early Childhood Education (3)         |
|           | ECED150  | Child Development (3)                                   |
|           | ECED210  | Active Approaches to Early Development and Learning (3) |
|           | ECED240  | Children’s Literature (3)                               |
|           |  | PreK/K Block (75 hours of field)                        |
|           | ECED241  | Language and Literacy (3)                               |
|           | ECED242  | Integrating Math and Science in the Early Years (3)     |
|           | ECED243  | Creative Expressive Arts (3)                            |
|           | ECED245  | Building Partnerships/Clinical Experience PreK-K (3)    |

|      |                                    |   |
|------|------------------------------------|---|
| B.   | Post Candidacy                     | 18 sem. hrs.  |
|      | ECED320                            | Literacy Foundations Grades 1-4 (3)                             |
|      | ECED330                            | Language Arts Grades 1-4 (3)                                    |
|      |                                    | Primary /Methods Block (75 hours of field)                      |
|      | 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)                    |
|      | ECED375                            | Classroom Guidance/Clinical Experience Gr. 1-4 (3)              |
| III. | Special Education Competency Areas | 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)  |
|      | SPED410                            | Positive Behavior Supports and Interventions (3)                |
|      | SPED451                            | Instructional Strategies in SPED II (3)                         |
|      | Special Education Block            |   |
|      | 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 (6)  |
|      | ECED480                            | Data Driven Assessment for Student Learning (3)                 |
|      | ECED495                            | Student Teaching (6)  |
| V.   | Supporting Courses                 | 3 sem. hrs.   |
|      | BIOL102                            | Environmental Biology (3)                                       |
|      | 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)                      |
| MATH103 | Mathematics for Teachers of Children I (3)      |
| PSYC101 | Introduction to Psychology-Core 4 (3)           |
| SEDU271 | Multiculturalism in American Schools-Core 5 (3) |
|         | General Education Core Course (3)               |
|         | Freshman Common Hour (0)                        |
|         | TOTAL 15 sem. hrs.                              |

**Second Semester**

|         |  |
|---------|--|
| ENGL102 | Research Writing (3)                                       |
| MATH203 | Mathematics for Teachers of Children II (3)                |
| ECED150 | Child Development II (3)                                   |
| ECED120 | Introduction to Early Childhood Education (3)              |
| SPED210 | Introduction to Exceptionalities and Special Education (3) |
|         | Take PAPA/CORE Exams                                       |
|         | TOTAL 158 sem. hrs.  |

**Third Semester**

|         |  |              |
|---------|--|--------------|
|         | Literature Course - Core 1 (3)               |              |
| SPED240 | Managing Inclusive Learning Environments (3) |              |
| SEDU283 | Technology for Teaching and Learning (3)     |              |
|         | General Education (9)                        |              |
|         | <b>TOTAL</b>                                 | 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) |              |
| ECED240 | Children's Literature (3)                                     |              |
|         | General Education (6)   |              |
|         | Apply for Candidacy   |              |
|         | Apply for PRE K/K- Block                                      |              |
|         | <b>TOTAL</b>  | 18 sem. hrs. |

**Fifth Semester****PRE K/K Block:**

|         |  |              |
|---------|--|--------------|
| ECED241 | Language and Literacy (3)                            |              |
| ECED242 | Integrating Math and Science in The Early Years (3)  |              |
| ECED243 | Creative Expression Arts (3)                         |              |
| ECED245 | Building Partnerships/Clinical Experience PreK-K (3) |              |
| SPED360 | Instructional Planning Strategies (3)                |              |
|         | General Education Course (3)                         |              |
|         | <b>TOTAL</b>   | 18 sem. hrs. |

**Sixth Semester****SPED BLOCK:**

|         |  |              |
|---------|--|--------------|
| SPED350 | Language/Literacy/Excep (3)                  |              |
| SPED420 | Assessment of Students with Disabilities (3) |              |
| SPED430 | Collaboration and IEP Development (3)        |              |
| SPED440 | Field Experience in Special Education (3)    |              |
| ECED320 | Literacy Foundations Grade 1-4 (3)           |              |
| ECED330 | Language Arts Grades 1-4 (3)                 |              |
|         | Apply for P-4 Block during semester 6        |              |
|         | <b>TOTAL</b>                                 | 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)       |              |
| ECED375 | Class Guidance/Clinical Experience 1-4 (3)       |              |
| SPED410 | Positive Behavior Supports and Interventions (3) |              |
| SPED451 | Instructional Strategies in SPED II (3)          |              |
|         | <b>TOTAL</b>                                     | 18 sem. hrs. |

**Eighth Semester**

|         |   |              |
|---------|---|--------------|
| SPED495 | Student Teaching in Special Education P-8 (6)   |              |
| ECED480 | Data Driven Assessment for Student Learning (3) |              |
| ECED495 | Student Teaching in PK/K-4 (6)                  |              |
|         | <b>TOTAL</b>                                    | 15 sem. hrs. |

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## Middle & Secondary Education and Educational Leadership Department

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**FACULTY:** Heather Baron, J. Camille Dempsey, Andrew Pushchak, Whitney Wesley, Tracy McCalla, Stephanie Williams, John Ziegler

**MISSION**

The faculty members of the Middle Level & Secondary Education Department and Educational Leadership 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.

**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.

Students majoring in any one of the nine middle level programs are eligible for certification as generalists in grades 4, 5 and 6 and specialists in selected content areas in grades 7 and 8. Students select an area(s) of concentration in either the Option I category or Option II category:

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 programs (Grades 7-12) focus on the selection of a specific content area.

**Secondary Education:**

- Biology
- Chemistry
- Comprehensive English
- Mathematics
- Physics
- Social Studies

Special Education can be added to any of the Middle Level or Secondary Programs.

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 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. 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. Special Education can be added to any of the Middle Level or Secondary Programs.

**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                        | Research Writing (3)                        |
|     | MATH203                        | Mathematics for Teachers of Children II (3) |
|     | SEDU283                        | Technology for Teaching and Learning (3)    |
| B.  | Core                           | 21 sem. hrs.                                |
|     | ENGL118                        | Artistic Expression (3)                     |
|     |                                | World Civilizations – HIST101,              |
|     |                                | HIST102 or GEOG101 (3)                      |
|     |                                | American Civilizations – HIST261,           |
|     |                                | HIST262 or GEOG260 (3)                      |
|     | PSYC101                        | Human Behavior (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)                                 |
|     | HIST380                        | Social and Behavioral Sciences (3)          |
|     |                                | Natural Sciences and Mathematics            |
|     |                                | (Science only) (3)                          |
| II. | Professional Education         | 42 sem. hrs.                                |
|     | SPED210                        | Intro to Exception & Special Ed (3)         |
|     | MLED306                        | Literacy and the Young Adolescent (3)       |
|     | 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 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)                                 |
| ENGL425                                      | Composition Theory (3)   |
| ENGL446                                      | Adolescent Literature (3)                                      |
| THEA218                                      | Intro to Theatre (3)   |
| B. Supporting Courses                        | 15 or 16 sem. hrs.   |
| MATH105                                      | College Algebra (3)  |
| MATH103 (3)                                  | Mathematics for Teachers of Children (3)                       |
| MATH250                                      | Informal Geometry (3)<br>Science (Lab) (3 or 4)<br>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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL ENGLISH/LANG ARTS & READING (Suggested Eight-Semester Sequence)**

|                               |  |
|-------------------------------|--|
| <b>First Semester</b>         |  |
| ENGL101                       | College Writing Skills (3)   |
| PSYC101                       | Introduction to Psychology (3)   |
| MATH110                       | Mathematical Reasoning I (3)   |
| Core 7                        | Natural Science (any) (3)<br>Freshman Common Hour                      |
| TOTAL                         | 12 sem. hrs.   |
| <b>Second Semester</b>        |  |
| ENGL102                       | Writing and Research (3)   |
| ENGL209                       | Foundations of Literary Study (3)                                      |
| MATH210                       | Mathematical Reasoning II (3)  |
| SEDU271                       | Multiculturalism in American Schools (3)                               |
| SPED210                       | Intro to Exceptionalities/Spec Ed (3)                                  |
| TOTAL                         | 15 sem. hrs.   |
| <b>Third Semester</b>         |  |
| ENGL211                       | Traditional Grammar (3)  |
| ENGL118                       | Intro to Poetry (3)  |
| ENGL201 or ENGL202            | American Literature Survey I (3)<br>American Literature Survey II      |
| MATH250                       | Informal Geometry (3)  |
| SEDU283                       | Technology for Teaching and Learning (3)                               |
| TOTAL                         | 15 sem. hrs.   |
| <b>Fourth Semester</b>        |  |
| HIST101 or HIST102 or GEOG101 | World Civilizations I (3)<br>World Civilizations II<br>World Geography |
| MATH105                       | College Algebra (3)  |
| ENGL241 OR ENGL242            | British Literature Survey I (3)<br>British Literature Survey II        |
| Core 6                        | Ethics (3)   |
| SCIENCE                       | Science Course (3)   |
| TOTAL                         | 15 sem. hrs.   |

|                               |   |
|-------------------------------|---|
| <b>Fifth Semester</b>         |   |
| HIST261 or HIST262 or GEOG260 | History of U.S. I (3)<br>History of U.S. II<br>Geography of U.S. and Canada |
| SCIENCE                       | Laboratory Course (any) (4)   |
| ENGL525                       | Composition Theory (3)  |
| MLED350                       | Characteristics of ML Learners (3)  |
| MLED360                       | Devel Appropriate Features & Prac (3)                                       |
| TOTAL                         | 16 sem. hrs.  |
| <b>Sixth Semester</b>         |   |
| THEA218                       | Introduction to Theatre (3)   |
| ENGL545                       | Adolescent Literature (3)   |
| HIST380                       | Pennsylvania History (3)  |
| Distribution 3                | Science (3)   |
| Elective                      | Free Elective (3)   |
| TOTAL                         | 15 sem. hrs.  |
| <b>Seventh Semester</b>       |   |
| MLED306                       | Literacy and the Young Adolescent (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)  |
| MLED491                       | ML Classroom Community 3 sem. hrs   |
| TOTAL                         | 15 sem. hrs.  |
| <b>Eighth Semester</b>        |   |
| SPED370                       | Adapt/Accom in Inclusive Clsrms (3)   |
| MLED 495                      | Student Teaching 12 sem. hrs  |
| 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                           | Research Writing (3)   |
| MATH107                           | Pre Calculus (4)   |
| SEDU283                           | Technology for Teaching and Learning (3)   |
| B. Core                           | 21 sem. hrs.   |
|                                   | Artistic Expression (3)<br>World Civilizations – HIST101,<br>HIST102 or GEOG101 (3)<br>American Civilizations – HIST261,<br>HIST262 or GEOG260 (3) |
| PSYC101                           | Human Behavior (3)   |
| SEDU271                           | Cultural Diversity and Social Pluralism<br>Multicult. Amer. Schools (3)<br>Ethics (3)<br>Natural Science (3)                                       |
| C. Distribution                   | 9 sem. hrs.  |
|                                   | Humanities and Fine Arts – English Lit<br>300 level or above (3)<br>Social and Behavioral Sciences (3)<br>Natural Sciences and Mathematics (3)     |
| HIST380                           |  |
| II. Professional Education        | 42 sem. hrs.   |
| SPED210                           | Intro to Exception & Special Ed (3)  |
| MLED306                           | Literacy and the Young Adolescent (3)  |
| MLED350                           | Characteristics ML Learners (3)  |
| MLED360                           | Dev. Appropriate ML Feat/Prac (3)  |
| SPED370                           | Adapt/Accom Inclusive Clsrms (3)   |
| MLED381                           | Assessment for Learning Young<br>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)              |                    |
| STAT300                     | 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATHEMATICS: OPTION 1 (Suggested Eight-Semester Sequence)**

|                               |  |              |
|-------------------------------|--|--------------|
| <b>First Semester</b>         |  |              |
| ENGL101                       | College Writing Skills (3)               |              |
| PSYC101                       | Introduction to Psychology (3)           |              |
| MATH107                       | Pre Calculus (3)*                        |              |
| Core 1                        | Artistic Expression (any) (3)            |              |
|                               | Common Hour                              |              |
|                               | TOTAL                                    | 12 sem. hrs. |
| <b>Second Semester</b>        |  |              |
| ENGL102                       | Research Writing (3)                     |              |
| MATH211                       | Analytic Geometry & Calculus I (4)       |              |
| MATH270                       | Discrete Mathematics (3)                 |              |
| SPED210                       | Intro to Exceptionalities/Spec Ed (3)    |              |
| SEDU271                       | Multiculturalism in American Schools (3) |              |
| Core 7                        | Natural Science (any) (3)                |              |
|                               | TOTAL                                    | 16 sem. hrs. |
| <b>Third Semester</b>         |  |              |
| SEDU283                       | Technology for Teaching and Learning (3) |              |
| MATH212                       | Analytical Geometry and Calculus II (3)  |              |
| MATH250                       | Informal Geometry (3)                    |              |
| Dist 3                        | Science (3)                              |              |
|                               | TOTAL                                    | 15 sem. hrs. |
| <b>Fourth Semester</b>        |  |              |
| STAT300                       | Applied Statistical Methods (3)          |              |
| MATH403                       | Math for the Sec. School Teacher (3)**   |              |
| HIST101 or HIST102 or GEOG101 | World Civilizations I (3)                |              |
| Dist 1                        | World Civilizations II                   |              |
|                               | World Geography                          |              |
|                               | ENGL Literature - 300 Level or Above (3) |              |
| SCIENCE                       | Science Course (3)                       |              |
|                               | TOTAL                                    | 15 sem. hrs. |
| <b>Fifth Semester</b>         |  |              |
| HIST261 or HIST262 or GEOG260 | History of U. S. I (3)                   |              |
| MATH404                       | History of U. S. II                      |              |
| MATH403                       | Geography of U.S. and Canada             |              |
| MLED350                       | Comp/Calc Sec. Curr. (3)**               |              |
| MLED360                       | Math for the Sec. School Teacher (3)**   |              |
|                               | Characteristics of ML Learners (3)       |              |
|                               | Devel Appropriate Features & Prac (3)    |              |
|                               | TOTAL                                    | 15 sem. hrs. |

|                       |                          |              |
|-----------------------|--------------------------|--------------|
| <b>Sixth Semester</b> |                          |              |
| MATH275               | Linear Algebra I (3)     |              |
| HIST380               | Pennsylvania History (3) |              |
| SCIENCE               | Science Lab (4)          |              |
| Core 6                | Ethics (any) (3)         |              |
|                       | Free Elective (3)        |              |
|                       | TOTAL                    | 16 sem. hrs. |

|                         |  |              |
|-------------------------|--|--------------|
| <b>Seventh Semester</b> |  |              |
| MLED306                 | Literacy and the Young Adolescent (3)    |              |
| MLED 381                | Assess for Learning of Young Adoles (3)  |              |
| MLED 466                | Integra Lg Arts & SocStud ML Learner (3) |              |
| MLED 467                | Integra Math/ Science ML Learner (3)     |              |
| MLED 475                | Middle Level Field (3)                   |              |
| MLED 491                | ML Classroom Community (3)               |              |
|                         | TOTAL                                    | 18 sem. hrs. |

|                        |                                       |              |
|------------------------|---------------------------------------|--------------|
| <b>Eighth Semester</b> |                                       |              |
| SPED 370               | Adapt/Accom in Inclusive Classrms (3) |              |
| 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                           | Research Writing (3)   |              |
| MATH105                           | College Algebra (3)  |              |
| SEDU283                           | Technology 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)   |              |
| GEOS101                           | Natural Science (3)  |              |
| C. Distribution                   |  | 9 sem. hrs.  |
|                                   | Humanities and Fine Arts- English Lit 300 level or above (3) |              |
|                                   | Social and Behavioral Sciences (3)                           |              |
| HIST380                           | Natural Sciences and Mathematics (3)                         |              |
| MATH208                           |  |              |
| II. Professional Education        |  | 42 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 General Science | 33 or 34 sem. hrs.          |
| A. Required Courses                    | 28 sem. hrs.                |
| BIOL150                                | Principles of Biology (4)   |
| BIOL230 or<br>BIOL240                  | Botany<br>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)       |
| STAT260                                | Elements of Statistics (3)  |
| V. Free Elective                       | 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

|         |                                       |
|---------|---------------------------------------|
| 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)             |
|         | TOTAL 15 or 16 sem. hrs.              |

**Sixth Semester**

|         |                            |
|---------|----------------------------|
| HIST380 | Pennsylvania History (3)   |
| PHYS271 | Frontiers of Astronomy (3) |
| SCIENCE | Field Course (3)           |
|         | Free Elective (3)          |
|         | TOTAL 12 sem. hrs.         |

**Seventh Semester**

|         |   |
|---------|---|
| MLED491 | ML Classroom Community (3)                |
| MLED306 | Literacy and the Young Adolescent (3)     |
| MLED381 | Assess for Learning of Young Adoles (3)   |
| MLED466 | Integra LgArts & Soc. Stud ML Learner (3) |
|         | Integra Math/ Science ML Learner (3)      |
| MLED467 | Middle Level Field (3)                    |
| MLED475 |   |
|         | TOTAL 18 sem. hrs.                        |

**Eighth Semester**

|         |                                       |
|---------|---------------------------------------|
| SPED370 | Adapt/Accom in Inclusive Classrms (3) |
| MLED495 | Student Teaching (12)                 |
|         | TOTAL 15 sem. hrs.                    |

### BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SCIENCE: OPTION 1 (Suggested Eight-Semester Sequence)

**First Semester**

|         |                                |
|---------|--------------------------------|
| ENGL101 | College Writing Skills (3)     |
| PSYC101 | Introduction to Psychology (3) |
| MATH105 | College Algebra (3)            |
| BIOL150 | Principles of Biology (4)      |
| Core 1  | Artistic Expression (any) (3)  |
|         | Freshman Common Hour           |
|         | TOTAL 16 sem. hrs.             |

**Second Semester**

|                                     |  |
|-------------------------------------|--|
| ENGL102                             | Research Writing (3)   |
| SPED 210                            | Intro to Exceptionalities/Spec Ed (3)                                  |
| SEDU271                             | Multiculturalism in American Schools (3)                               |
| HIST101 or<br>HIST102 or<br>GEOG101 | World Civilizations I (3)<br>World Civilizations II<br>World Geography |
| BIOL230 or<br>BIOL240               | Botany (4)<br>Zoology  |
| MATH208                             | Essentials of Calculus (3)   |
|                                     | TOTAL 16 sem. hrs.   |

**Third Semester**

|          |  |
|----------|--|
| MATH 250 | Informal Geometry (3)                    |
| PHYS101  | Physical Science (3)                     |
| SEDU283  | Technology for Teaching and Learning (3) |
|          | Free Elective (1 or 2)                   |
|          | TOTAL 14 or 15 sem. hrs.                 |

**Fourth Semester**

|          |  |
|----------|--|
| MATH 260 | Elements of Statistics (3)             |
| CHEM140  | General Chemistry (4)                  |
| Dist 1   | ENGL Literature 300 Level or Above (3) |
| Core 6   | Ethics (3)                             |
| GEOS101  | Dynamic Earth (3)                      |
|          | TOTAL 16 sem. hrs.                     |

**Fifth Semester**

|                          |   |
|--------------------------|---|
| HIST261 or<br>HIST262 or | History of U.S. I (3)<br>History of U.S. II |
|--------------------------|---|

**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                           | Research Writing (3)                         |
| MATH203                           | Mathematics for Teachers of Children II (3)* |
| SEDU283                           | Technology 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      |
|                                   | 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        | 42 sem. hrs.                                 |
| SPED210                           | Intro to Exception & Special Ed (3)          |
| MLED306                           | Literacy and the Young Adolescent (3)        |
| MLED350                           | Characteristics ML Learners (3)              |
| MLED360                           | Dev. Appropriate ML Feat/Prac (3)            |
| SPED370                           | Adapt/Accom Inclusive Clsrm (3)              |
| MLED381                           | Assessment for Learning Young                |
|                                   | Adoles (3)                                   |
|                                   | Integrated Lang Arts/Soc St ML (3)           |
| MLED466                           | Integrated Math/Science ML (3)               |
| MLED467                           | Middle Level Field Experience (3)            |
| MLED475                           | ML Classroom Community (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)                      |                    |
| MATH103                               | Mathematics for Teachers of Children (3) |                    |
| MATH250                               | Informal Geometry (3)                    |                    |
|                                       | Science (Lab) (3 or 4)                   |                    |
|                                       | Science (3)                              |                    |
| IV. Free Elective                     |  | 1 or 2 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SOCIAL STUDIES (Suggested Eight-Semester Sequence)**

**First Semester**

|         |   |              |
|---------|---|--------------|
| ENGL101 | College Writing Skills (3)                  |              |
| PSYC101 | Introduction to Psychology (3)              |              |
| MATH203 | Mathematics for Teachers of Children II (3) |              |
| GEOG101 | World Geography (3)                         |              |
| Core 1  | Artistic Expression (any) (3)               |              |
|         | Freshman Common Hour                        |              |
|         | TOTAL                                       | 15 sem. hrs. |

**Second Semester**

|         |  |              |
|---------|--|--------------|
| ENGL102 | Research Writing (3)                     |              |
| SPED210 | Intro to Exceptionalities/Spec Ed (3)    |              |
| SEDU271 | Multiculturalism in American Schools (3) |              |
| MATH103 | Mathematics for Teachers of Children (3) |              |
| Core 7  | Natural Science (any) (3)                |              |
|         | TOTAL                                    | 15 sem. hrs. |

**Third Semester**

|         |  |              |
|---------|--|--------------|
| SEDU283 | Technology for Teaching and Learning (3) |              |
| ECON100 | Elements of Economics (3)                |              |
| HIST101 | World Civilizations I (3)                |              |
| Dist 3  | Science (3)                              |              |
|         | Free Elective (1 or 2)                   |              |
|         | TOTAL                                    | 15 sem. hrs. |

**Fourth Semester**

|         |                            |              |
|---------|----------------------------|--------------|
| MATH105 | College Algebra (3)        |              |
| POLI201 | American Government (3)    |              |
| HIST102 | World Civilizations II (3) |              |
| Core 6  | Ethics (3)                 |              |
| SCIENCE | Science Course (3)         |              |
|         | TOTAL                      | 15 sem. hrs. |

**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) |                 |
|         | TOTAL                                 | 15-16 sem. hrs. |

**Sixth Semester**

|         |  |              |
|---------|--|--------------|
| HIST380 | Pennsylvania History (3)               |              |
| HIST262 | History of U.S. II (3)                 |              |
| Dist 1  | ENGL literature 300 level or above (3) |              |
| POLI102 | Intro to Comparative Politics (3)      |              |
|         | TOTAL                                  | 12 sem. hrs. |

**Seventh Semester**

|          |  |              |
|----------|--|--------------|
| MLED 491 | ML Classroom Community (3)                 |              |
| MLED 306 | Literacy and the Young Adolescent (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)                     |              |
|          | TOTAL                                      | 18 sem. hrs. |

**Eighth Semester**

|          |                                     |              |
|----------|-------------------------------------|--------------|
| SPED 370 | Adapt/Accom in Inclusive Clsrms (3) |              |
| MLED 495 | Student Teaching (12)               |              |
|          | TOTAL                               | 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                           | Research Writing (3)   |              |
| MATH105                           | College Algebra (3)  |              |
| SEDU283                           | Technology 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 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 Multicult Am Schools (3)   |              |
|                                   | Ethics (3)   |              |
|                                   | Natural Science – Science (3)  |              |
|                                   | *SEDU271   |              |

|   |   |                    |
|---|---|--------------------|
| 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                    |   | 42 sem. hrs.       |
|   | SPED210 Intro to Exception & Special Ed (3)                               |                    |
|   | MLED306 Literacy and the Young Adolescent (3)                             |                    |
|   | MLED350 Characteristics ML Learners (3)                                   |                    |
|   | MLED360 Dev. Appropriate ML Feat/Prac (3)                                 |                    |
|   | 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 Language Arts |   | 33 or 34 sem. hrs. |
| A. Required Courses                           |   | 27 sem hrs.        |
|   | ENGL205 Multi-ethnic Amer Lit (3)   |                    |
|   | ENGL211 Traditional Grammar (3)   |                    |
|   | ENGL446 Adolescent Lit (3)  |                    |
|   | MATH208 Essentials of Calculus (3)  |                    |
|   | MATH270 Discrete Mathematics I (3)  |                    |
|   | MATH275 Linear Algebra I (3)  |                    |
|   | MATH250 Informal Geometry (3)   |                    |
|   | STAT260 Elements of Statistics (3)  |                    |
|   | MATH403 or Math for Sec. Sch. Teachers (3)                                |                    |
|   | 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.   |
|   | 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATH & ENGL/LANG ARTS & READING (Suggested Eight-Semester Sequence)**

**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           |              |
|         | TOTAL                          | 15 sem. hrs. |

**Second Semester**

|                               |  |                    |
|-------------------------------|--|--------------------|
| ENGL 102                      | Writing and Research (3)                 |                    |
| MATH 208                      | Essentials of Calculus (3)               |                    |
| SPED 210                      | Intro to Exceptionalities/Spec Ed (3)    |                    |
| SEDU 271                      | Multiculturalism in American Schools (3) |                    |
| HIST101 or HIST102 or GEOG101 | World Civilizations I (3)                |                    |
|                               | World Civilizations II                   |                    |
|                               | World Geography                          |                    |
|                               | Free Elective (1 or 2)                   |                    |
|                               | TOTAL                                    | 13 or 14 sem. hrs. |

**Third Semester**

|                    |   |              |
|--------------------|---|--------------|
| SEDU 283           | Technology for Teaching and Learning (3)        |              |
| MATH 270           | Discrete Mathematics I (3)                      |              |
| ENGL201 or ENGL202 | American Literature Survey I (Origins-1865) (3) |              |
|                    | American Literature Survey II (1865-Present)    |              |
| SCIENCE            | Distribution (3)                                |              |
|                    | TOTAL   | 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 or HIST262 or GEOG260 | History of U.S. I (3)       |              |
|                               | History of U.S. II          |              |
|                               | Geog of U.S. and Canada     |              |
|                               | TOTAL                       | 15 sem. hrs. |

**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) |              |
|          | TOTAL                                 | 16 sem. hrs. |

**Sixth Semester**

|                     |                                  |              |
|---------------------|----------------------------------|--------------|
| HIST 380            | Pennsylvania History (3)         |              |
| MATH403 or MATH 404 | Math for Sec. Sch. Teachers (3)* |              |
| ENGL211             | Comp. and Calc. in Sec. Curric.* |              |
| ENGL446             | Traditional Grammar (3)          |              |
|                     | Adolescent Literature (3)        |              |
|                     | TOTAL                            | 12 sem. hrs. |

**Seventh Semester**

|          |   |              |
|----------|---|--------------|
| MLED 491 | ML Classroom Community (3)              |              |
| MLED306  | Literacy and the Young Adolescent (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                                   | 18 sem. hrs. |

**Eighth Semester**

|          |                                     |              |
|----------|-------------------------------------|--------------|
| SPED370  | Adapt/Accom in Inclusive Clsrms (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 – Math and Science Option 2**

|   |   |                     |
|---|---|---------------------|
| I. General Education Requirements       |   | 44 sem. hrs.        |
| A. Skills                               |   | 13 sem. hrs.        |
| ENGL101                                 | College Writing Skills (3)                                    |                     |
| ENGL102                                 | Research Writing (3)  |                     |
| MATH107                                 | Pre Calculus (4)  |                     |
| SEDU283                                 | Technology for Teaching and Learning (3)                      |                     |
| 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                               |                     |
| MATH211                                 | Analyt Geom/Calc I (4)  |                     |
| II. Professional Education              |   | 42 sem. hrs.        |
| SPED210                                 | Intro to Exception & Special Ed (3)                           |                     |
| MLED306                                 | Literacy and the Young Adolescent (3)                         |                     |
| 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)   |                     |
| STAT260                                 | 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATH AND SCIENCE****(Suggested Eight-Semester Sequence)****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 16 sem. hrs.             |

**Second Semester**

|                               |  |
|-------------------------------|--|
| ENGL102                       | Research Writing (3)                     |
| BIOL150                       | Principles of Biology (4)                |
| SPED 210                      | Intro to Exceptionalities/Spec Ed (3)    |
| SEDU271                       | Multiculturalism in American Schools (3) |
| HIST101 or HIST102 or GEOG101 | World Civilizations I (3)                |
|                               | World Civilizations II                   |
|                               | World Geography                          |
|                               | Free Elective (1)                        |
|                               | TOTAL 14 sem. hrs.                       |

**Third Semester**

|                    |  |
|--------------------|--|
| SEDU283            | Technology for Teaching and Learning (3) |
| BIOL230 or BIOL240 | Botany (4)                               |
| MATH211            | Zoology                                  |
|                    | Analytical Geometry/Calculus I (4)       |
|                    | 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.                |

**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)                    |
| STAT260  | Elements of Statistics (3)                |
|          | TOTAL 12 sem. hrs.                        |

**Seventh Semester**

|          |   |
|----------|---|
| MLED 491 | ML Classroom Community (3)              |
| MLED 306 | Literacy and the Young Adolescent (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 18 sem. hrs.                      |

**Eighth Semester**

|          |                                   |
|----------|-----------------------------------|
| SPED 370 | Adapt/Accom in Inclusive Clsm (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                                   | Research Writing (3)                              |
|      | MATH105                                   | College Algebra (3)                               |
|      | SEDU283                                   | Technology 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)                                       |
|      |   | <i>*Fulfills Core 5 for Education majors only</i> |
| II.  | Professional Education                    | 42 sem. hrs.                                      |
|      | SPED210                                   | Intro to Exception & Special Ed (3)               |
|      | MLED306                                   | Literacy and the Young Adolescent (3)             |
|      | 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 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)                             |
|      | STAT260                                   | 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATH AND SOCIAL STUDIES**

(Suggested Eight-Semester Sequence)

**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 | Research Writing (3)                     |
| MATH208 | Essentials of Calculus (3)               |
| SPED210 | Intro to Exceptionalities/Spec Ed (3)    |
| SEDU271 | Multiculturalism in American Schools (3) |
| HIST261 | History of U.S. I (3) Or                 |
| HIST262 | History of U.S. II                       |
| Core 7  | Natural Science (any) (3)                |
|         | TOTAL 15 sem. hrs.                       |

**Third Semester**

|         |  |
|---------|--|
| SEDU283 | Technology for Teaching and Learning (3) |
| MATH270 | Discrete Mathematics I (3)               |
| 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.  |

**Fifth Semester**

|         |                                       |
|---------|---------------------------------------|
| STAT260 | 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 or | Mathematics for Sec. Sch. Teachers (3)*  |
| MATH404    | Comp. and Calc. in the Sec. Curric. (3)* |
| GEOG       | 200 level or above (3)                   |
| HIST380    | Pennsylvania History (3)                 |
| CORE 6     | Ethics (any) (3)                         |
|            | TOTAL 13 sem. hrs.                       |

**Seventh Semester**

|          |   |
|----------|---|
| MLED 491 | ML Classroom Community (3)              |
| MLED306  | Literacy and the Young Adolescent (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 18 sem. hrs.                      |

**Eighth Semester**

|          |   |
|----------|---|
| SPED370  | Adapt/Accom in Inclusive Classrooms (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)  |                      |
|      | SEDU283 Technology 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 Multicult Amer Schools (3)   |                      |
|      | Ethics (3)   |                      |
|      | Natural Science – GEOS101 Dynamic Earth or GEOS109 Atmos & Space Sci (3)                                     |                      |
|      | SEDU271  |                      |
| 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   | 42 sem. hrs.         |
|      | SPED210 Intro to Exception & Special Ed (3)  |                      |
|      | MLED306 Literacy and the Young Adolescent (3)  |                      |
|      | MLED350 Characteristics ML Learners (3)  |                      |
|      | MLED360 Dev. Appropriate ML Feat/Prac (3)  |                      |
|      | SPED370 Adapt/Accom Inclusive Cllsrm (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)  |                      |
|      | ENGL446 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)  |                      |
|      | STAT260 Elements of Statistics (3)   |                      |
| IV.  | Free Elective  | 1 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.

Special Education can be added to any of the Middle Level or

Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SCIENCE & ENGL/LANG ARTS & READING (Suggested Eight-Semester Sequence)**

**First Semester**

|                                |  |
|--------------------------------|--|
| ENGL101                        | College Writing Skills (3)   |
| PSYC101                        | Introduction to Psychology (3)   |
| MATH105                        | College Algebra (3)  |
| ENGL118                        | Intro to Poetry (3)  |
| HIST 101 or HIST102 or GEOG101 | World Civilizations I (3)<br>World Civilizations II<br>World Geography |
|                                | Freshman Common Hour   |
|                                | <b>TOTAL 15 sem. hrs.</b>  |

**Second Semester**

|                    |   |
|--------------------|---|
| ENGL 102           | Writing and Research (3)                        |
| SPED210            | Intro to Exceptionalities/Spec Ed (3)           |
| SEDU 271           | Multiculturalism in American Schools (3)        |
| MATH208            | Essentials of Calculus (3)                      |
| BIOL150            | Principles of Biology (4)                       |
| GEOS101 or GEOS109 | Dynamic Earth (3)<br>Atmosphere & Space Science |
|                    | <b>TOTAL 16 sem. hrs.</b>                       |

**Third Semester**

|                    |  |
|--------------------|--|
| SEDU 283           | Technology for Teaching and Learning (3)   |
| BIOL230 or BIOL240 | Botany (4)<br>Zoology  |
| ENGL201 or ENGL202 | American Lit Survey I (Origins-1865) (3)<br>American Lit Survey II (1865-Present)<br>Free Elective (1) |
|                    | <b>TOTAL 14 sem. hrs.</b>  |

**Fourth Semester**

|                                |   |
|--------------------------------|---|
| MATH250                        | Informal Geometry (3)   |
| CHEM140                        | General Chem I (4)  |
| ENGL205                        | Multi-Ethnic Literature (3)   |
| GEOS                           | 300 level or above (3)  |
| HIST 261 OR HIST262 OR GEOG260 | History of U. S. I (3)<br>History of U.S. II<br>Geog of U.S. and Canada |
|                                | <b>TOTAL 16 sem. hrs.</b>   |

**Fifth Semester**

|          |                                       |
|----------|---------------------------------------|
| ENGL211  | Traditional Grammar (3)               |
| PHYS201  | Physics I (4)                         |
| MLED 350 | Characteristics of ML Learners (3)    |
| MLED 360 | Devel Appropriate Features & Prac (3) |
|          | <b>TOTAL 13 sem. hrs.</b>             |

**Sixth Semester**

|          |                            |
|----------|----------------------------|
| HIST 380 | Pennsylvania History (3)   |
| STAT260  | Elements of Statistics (3) |
| ENGL446  | Adolescent Literature (3)  |
| Core 6   | Ethics (any) (3)           |
|          | <b>TOTAL 12 sem. hrs.</b>  |

**Seventh Semester**

|          |   |
|----------|---|
| MLED 491 | ML Classroom Community (3)              |
| MLED306  | Literacy and the Young Adolescence (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)                  |
|          | <b>TOTAL 18 sem. hrs.</b>               |

**Eighth Semester**

|          |                                    |
|----------|------------------------------------|
| SPED 370 | Adapt/Accom in Inclusive Class (3) |
| MLED 495 | Student Teaching 12 sem. hrs       |
|          | <b>TOTAL 15 sem. hrs.</b>          |

**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 Research Writing (3)   |                      |
|      | MATH105 College Algebra (3)  |                      |
|      | SEDU283 Technology for Teaching and Learning (3)                     |                      |
| B.   | Core   | 21 sem. hrs.         |
|      | Artistic Expression (3)  |                      |
|      | World Civilizations – HIST101 or HIST102 (3)                         |                      |
|      | American Civilizations – HIST261 or HIST262 (3)                      |                      |
|      | Human Behavior – PSYC101 (3)   |                      |
|      | Cultural Diversity and Social Pluralism Multicult. Amer. Schools (3) |                      |
|      | SEDU271 Ethics (3)   |                      |
|      | Natural Science - GEOS101 or GEOS109 (3)                             |                      |
| C.   | Distribution   | 9 sem. hrs.          |
|      | Humanities and Fine Arts- English Lit 300 level or above (3)         |                      |
|      | HIST380 Social and Behavioral Sciences (3)                           |                      |
|      | MATH208 Natural Sciences and Mathematics (3)                         |                      |
| II.  | Professional Education   | 42 sem. hrs.         |
|      | SPED210 Intro to Exception & Special Ed (3)                          |                      |
|      | MLED306 Literacy and the Young Adolescent (3)                        |                      |
|      | 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 Social Studies                         | 34 sem. hrs.         |
| A.   | Required Courses   | 28 sem. hrs.         |
|      | BIOL150 Principles of Biology (4)                                    |                      |
|      | BIOL230 or Botany (4)  |                      |
|      | 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)  |                      |
|      | STAT260 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.

Special Education can be added to any of the Middle Level or Secondary Programs.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SCIENCE & SOCIAL STUDIES: OPTION 2**

**(Suggested Eight-Semester Sequence)**

**First Semester**

|                    |                                |
|--------------------|--------------------------------|
| ENG101             | College Writing Skills (3)     |
| PSYC101            | Introduction to Psychology (3) |
| MATH105            | College Algebra (3)            |
| HIST101 or HIST102 | World Civilizations I (3)      |
| Core 1             | World Civilizations II         |
|                    | Artistic Expression (any) (3)  |
|                    | Freshman Common Hour           |
|                    | <b>TOTAL</b> 15 sem. hrs.      |

**Second Semester**

|                     |  |
|---------------------|--|
| ENGL102             | Writing and Research (3)                 |
| SPED210             | Intro to Exceptionalities/Spec Ed (3)    |
| SEDU271             | Multiculturalism in American Schools (3) |
| BIOL150             | Principles of Biology (4)                |
| HIST 261 or HIST262 | History of U. S. I (3)                   |
| GEOS101 or GEOS109  | History of U. S. II                      |
|                     | Dynamic Earth (3)                        |
|                     | Atmospheric and Space Sciences           |
|                     | <b>TOTAL</b> 16 sem. hrs.                |

**Third Semester**

|                    |  |
|--------------------|--|
| SEDU283            | Technology for Teaching and Learning (3) |
| BIOL230 or BIOL240 | Botany (4)                               |
| MATH 208           | Zoology                                  |
|                    | Essentials of Calculus (3)               |
|                    | Free Elective (1)                        |
|                    | <b>TOTAL</b> 14 sem. hrs.                |

**Fourth Semester**

|         |                           |
|---------|---------------------------|
| MATH250 | Informal Geometry (3)     |
| CHEM140 | General Chemistry I (4)   |
| ECON100 | Elements of Economics (3) |
| GEOG    | 200 level or above (3)    |
| GEOG    | 300 level or above (3)    |
|         | <b>TOTAL</b> 16 sem. hrs. |

**Fifth Semester**

|         |                                       |
|---------|---------------------------------------|
| PHYS201 | Physics I (4)                         |
| POLI201 | American Government (3)               |
| MLED350 | Characteristics of ML Learners (3)    |
| MLED360 | Devel Appropriate Features & Prac (3) |
|         | <b>TOTAL</b> 13 sem. hrs.             |

**Sixth Semester**

|         |  |
|---------|--|
| HIST380 | Pennsylvania History (3)               |
| STAT260 | Elements of Statistics (3)             |
| ETHICS  | Core 6 (any) (3)                       |
| Dist 1  | ENGL Literature 300 level or above (3) |
|         | <b>TOTAL</b> 12 sem. hrs.              |

**Seventh Semester**

|         |   |
|---------|---|
| MLED491 | ML Classroom Community (3)              |
| MLED306 | Literacy and the Young Adolescent (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> 18 sem. hrs.               |

**Eighth Semester**

|         |   |
|---------|---|
| SPED370 | Adapt/Accom in Inclusive Classrooms (3) |
| MLED495 | Student Teaching (12)                   |
|         | <b>TOTAL</b> 15 sem. hrs.               |

**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
- General Science (on moratorium, not accepting new students)
- Mathematics
- Physics
- Social Studies

Graduates of the Bachelor of Science in Middle and 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.

## 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                           | Research Writing (3)                                    |
| MATH211                           | Calculus I (4)  |
| SEDU283                           | Technology 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 SEDU360 Sec Feat & Inst (3)**         |
|                                 | Natural Sciences and Mathematics CHEM301 Gen Org Chem (4)            |
| II. Professional Education      | 36 sem. hrs.   |
| SEDU306                         | Content Literacy in the Middle and Secondary Schools (3)             |
| SEDU350                         | Theory & Practices in Secondary Schools (3)                          |
| SEDU381                         | Assessment for Middle and Secondary Classrooms (3)                   |
| SEDU472                         | Instructional Techniques for Secondary Science (3)                   |
| SEDU476                         | Middle/Secondary Field Experience (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 or                      | Plant Physiology (4)   |
| BIOL340                         | Animal Physiology (4)  |
| BIOL400                         | Ecology (4)  |
|                                 | Biology Elective 300 level or above (3)                              |
| IV. Required Supporting Courses | 15 sem. hrs.   |
| PHYS201                         | Physics I (4)  |
| STAT260                         | Elements of Statistics (3)   |
| CHEM241                         | Principles of Chemistry II (4)                                       |
| PHYS202                         | Physics II (4)   |
|                                 | TOTAL 124 sem. hrs.  |

At least 42 semester hours must consist of advanced coursework  
 All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
 SEDU271 Fulfills Core 5 for Education Majors Only  
 A grade of “C” or better must be obtained in all major courses and any courses in general education that are required for major.

### BACHELOR OF SCIENCE IN EDUCATION – SECONDARY BIOLOGY (Suggested Eight-Semester Sequence)

|                        |                                      |
|------------------------|--------------------------------------|
| <b>First Semester</b>  |                                      |
| ENGL101                | College Writing Skills (3)           |
| MATH211                | Analytic Geometry/Calculus I (4)     |
| PSYC101                | Introduction to Psychology (3)       |
| Core 1                 | Artistic Expression (choose one) (3) |
|                        | Common Hour                          |
|                        | TOTAL 13 sem. hrs.                   |
| <b>Second Semester</b> |                                      |
| ENGL102                | Research Writing (3)                 |
| BIOL150                | Principles of Biology (4)            |
| STAT260                | Elements of Statistics (3)           |
| SPED210                | Intro to Exceptionality/Sped Ed (3)  |
| SEDU271                | Multiculturalism Amer Schools (3)    |
|                        | TOTAL 16 sem. hrs.                   |

**Third Semester**

|         |                                      |
|---------|--------------------------------------|
| PHYS201 | Physics I (4)                        |
| BIOL230 | Botany (4)                           |
| CHEM240 | Principles of Chem I (4)             |
| SEDU283 | Tech. for Teaching and Learning (3)  |
| Core 2  | World Civilizations (choose one) (3) |
|         | <b>TOTAL 18 sem. hrs.</b>            |

**Fourth Semester**

|         |   |
|---------|---|
| CHEM241 | Principles of Chemistry II (4)            |
| PHYS202 | Physics II (4)                            |
| BIOL240 | Zoology (4)                               |
| BIOL300 | Genetics (4)                              |
| Dist 1  | English Literature 300 level or above (3) |
|         | <b>TOTAL 19 sem. hrs.</b>                 |

**Fifth Semester**

|         |   |
|---------|---|
| GEOG145 | Environ Issues (3)                          |
| BIOL400 | Ecology (4)                                 |
| SEDU350 | Theory & Practices in Secondary Schools (3) |
| SEDU360 | Secondary Level Features & Practices (3)    |
|         | <b>TOTAL 13 sem. hrs.</b>                   |

**Sixth Semester**

|            |                                      |
|------------|--------------------------------------|
| BIOL       | Elective 300 level or above (3)      |
| BIOL320 or | Plant Physiology (4)                 |
| BIOL340    | Animal Physiology                    |
| CHEM301    | Gen Organic Chemistry (4)            |
| Core 3     | World Civilizations (choose one) (3) |
|            | <b>TOTAL 14 sem. hrs.</b>            |

**Seventh Semester**

|         |  |
|---------|--|
| SEDU306 | Content Literacy in Mid/Sec 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)        |
|         | <b>TOTAL 15 sem. hrs.</b>                          |

**Eighth Semester**

|         |                               |
|---------|-------------------------------|
| SPED370 | Adapt & Accom Inclu Clsrm (3) |
| SEDU495 | Student Teaching (12)         |
|         | <b>TOTAL 15 sem. hrs.</b>     |

**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                           | Research Writing (3)                                    |
| MATH211                           | Anaytical Geom & Cal I (4)                              |
| SEDU283                           | Technology 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 GEOG145 Environmental Issues (3)                 |
|                                   | Natural Science – CHEM240 Principles of Chemistry I (4) |

|                 |              |
|-----------------|--------------|
| C. Distribution | 10 sem. hrs. |
|-----------------|--------------|

|                                    |
|------------------------------------|
| Humanities and Fine Arts (3)       |
| Social and Behavioral Sciences     |
| SEDU360 Feat & Instr Practice (3)  |
| Natural Sciences and Mathematics   |
| MATH212Analytic Geom & Calc 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)                    |
| 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 | 14 sem. hrs. |
|---------------------------------|--------------|

|         |                            |
|---------|----------------------------|
| STAT260 | Elements of Statistics (3) |
| PHYS201 | Physics I (4)*             |
| PHYS202 | Physics II (4)*            |
| GEOS101 | Dynamic Earth (3)          |

**TOTAL 125 sem. hrs.**

\*At least 42 semester hours must consist of advanced coursework  
All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
SEDU271 Fulfills Core 5 for Education Majors Only  
A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY CHEMISTRY (Suggested Eight-Semester Sequence)****First Semester**

|         |                                      |
|---------|--------------------------------------|
| CHEM240 | Principles of Chemistry I (4)        |
| ENGL101 | College Writing Skills (3)           |
| MATH211 | Analytical Geometry/Calculus I (4)*  |
| PSYC101 | Introduction to Psychology (3)       |
| Core 1  | Artistic Expression (Literature) (3) |
|         | Freshman Common Hour                 |
|         | <b>TOTAL 17 sem. hrs.</b>            |

**Second Semester**

|         |                                |
|---------|--------------------------------|
| ENGL102 | Research Writing (3)           |
| CHEM241 | Principles of Chemistry II (4) |
| CHEM280 | Laboratory Safety I (1)        |
| SEDU271 | Multicult Amer Schools (3)     |
| SPED210 | Intro to Except/Sped Ed (3)    |
|         | <b>TOTAL 14 sem. hrs.</b>      |



**Third Semester**

|         |   |                     |
|---------|---|---------------------|
| CHEM310 | Quantitative Analysis (4)               |                     |
| CHEM330 | Organic Chemistry I (4)                 |                     |
| MATH212 | Analytical Geometry and Calculus II (4) |                     |
| SEDU283 | Tech. for Teaching and Learning (3)     |                     |
| Core 2  | World Civilizations (3)                 |                     |
|         | <b>TOTAL</b>                            | <b>18 sem. hrs.</b> |

**Fourth Semester**

|         |                              |                     |
|---------|------------------------------|---------------------|
| CHEM331 | Organic Chemistry II (4)     |                     |
| GEOG145 | Environmental Issues (3)     |                     |
| PHYS201 | Physics I (4)                |                     |
| Dist 1  | Humanities and Fine Arts (3) |                     |
| Core 3  | American Civilizations (3)   |                     |
|         | <b>TOTAL</b>                 | <b>17 sem. hrs.</b> |

**Fifth Semester**

|         |   |                     |
|---------|---|---------------------|
| CHEM341 | Biochemistry (4)                            |                     |
| CHEM530 | Physical Chemistry I (4)                    |                     |
| PHYS202 | Physics II (4)                              |                     |
| SEDU360 | Feat & Instr Practice (3)                   |                     |
| SEDU350 | Theory & Practices in Secondary Schools (3) |                     |
|         | <b>TOTAL</b>                                | <b>18 sem. hrs.</b> |

**Sixth Semester**

|         |                            |                     |
|---------|----------------------------|---------------------|
| CHEM531 | Physical Chemistry II (4)  |                     |
| GEOS101 | Dynamic Earth (3)          |                     |
| STAT260 | Elements of Statistics (3) |                     |
|         | <b>TOTAL</b>               | <b>10 sem. hrs.</b> |

**Seventh Semester**

|         |  |                     |
|---------|--|---------------------|
| SEDU306 | Content Literacy (3)                               |                     |
| SEDU381 | Assessment for Middle and Secondary Classrooms (3) |                     |
| SEDU472 | Instructional Techniques (3)                       |                     |
| SEDU491 | Pro. Perform Mid./Sec. (3)                         |                     |
| SEDU476 | Mid./Sec. Ed. Field Experience (3)                 |                     |
|         | <b>TOTAL</b>                                       | <b>15 sem. hrs.</b> |

**Eighth Semester**

|         |                               |                     |
|---------|-------------------------------|---------------------|
| SPED370 | Adapt & Accom Inclu Clsrm (3) |                     |
| SEDU495 | Student Teaching (12)         |                     |
|         | <b>TOTAL</b>                  | <b>15 sem. hrs.</b> |

C. Distribution 9 sem. hrs.

|         |   |
|---------|---|
| ENGL201 | Humanities and Fine Arts<br>American Lit Survey I (Origins-1865) (3)<br>**Social and Behavioral Sciences<br>Feat & Instr Practice (3)<br>Natural Sciences and Mathematics<br>Approved D-3 Math Course (3) |
| SEDU360 |   |

II. Professional Education 36 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 (3)                            |
| SEDU491 | Classroom Mgmt. in 7-12 Classrooms (3)                   |
| SEDU495 | Student Teaching (12)                                    |

III. Specialization in English 42 sem. hrs.

|            |  |
|------------|--|
|            | Core Course 27 sem hrs.                                    |
| COMM107    | Fundamentals of Speech (3)                                 |
| ENGL202    | American Lit. Survey II (1865-Present) (3)                 |
| ENGL209    | Foundations of Lit. Study (3)                              |
| ENGL211    | Traditional Grammar (3)                                    |
| ENGL489    | Lit. Criticism: Theory (3)                                 |
| ENGL499    | Thesis Seminar in Lit. (3)                                 |
| ENGL421    | Hist: English Lang. (3)                                    |
| ENGL425    | Composition Theory (3)                                     |
| ENGL446    | Adolescent Literature (3)<br>Ancient/Classical/Renaissance |
|            | <b>12 sem hrs.</b>   |
| ENGL260 or | Lit. of Ancient/Classical World                            |
| ENGL261    | Medieval and Renaissance Lit (3)                           |
| ENGL315    | Shakespeare I Or   |
| ENGL319    | Shakespeare II (3)   |
| 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 121 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                           | Research Writing (3)                     |
| MATH104                           | Finite Math or higher math (3)           |
| SEDU283                           | Technology for Teaching and Learning (3) |
| B. Core                           | 21 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-Culturalism/Amer           |
|                                   | Schools (3)                              |
|                                   | Ethics (3)                               |
|                                   | Natural Science (3)                      |

At least 42 semester hours must consist of advanced coursework.

All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.

SEDU271 Fulfills Core 5 for Education Majors Only

A grade of “C” or better must be obtained in all major courses and any courses in general education that are required for major.

**BACHELOR OF SCIENCE IN EDUCATION –  
COMPREHENSIVE ENGLISH**  
(Suggested Eight-Semester Sequence)

**First Semester**

|         |                                |                     |
|---------|--------------------------------|---------------------|
| COMM107 | Fundamentals of Speech (3)     |                     |
| ENGL101 | College Writing Skills (3)     |                     |
| MATH104 | Finite Math or higher math (3) |                     |
| PSYC101 | Introduction to Psychology (3) |                     |
| Core 1  | Artistic Expression (3)        |                     |
|         | Common Hour                    |                     |
|         | <b>TOTAL</b>                   | <b>15 sem. hrs.</b> |

**Second Semester**

|         |                                  |                     |
|---------|----------------------------------|---------------------|
| ENGL102 | Research Writing (3)             |                     |
| SPED210 | Intro to Except/ Spec Ed (3)     |                     |
| SEDU271 | Multiculture in Amer Schools (3) |                     |
| Core 2  | World Civilizations (any) (3)    |                     |
| Core 3  | American Civilizations (any) (3) |                     |
|         | <b>TOTAL</b>                     | <b>15 sem. hrs.</b> |

**Third Semester**

|         |  |                     |
|---------|--|---------------------|
| ENGL201 | American Literature Survey I<br>(Origins-1865) (3) |                     |
| ENGL211 | Traditional Grammar (3)                            |                     |
| ENGL241 | British Literature Survey I (3)                    |                     |
| SEDU283 | Tech. for Teaching and Learning (3)                |                     |
| Dist 3  | MATH- 100 level or higher (3)                      |                     |
|         | <b>TOTAL</b>                                       | <b>15 sem. hrs.</b> |

**Fourth Semester**

|         |   |                     |
|---------|---|---------------------|
| ENGL202 | American Literature Survey II<br>(1865-Present) (3) |                     |
| ENGL209 | Foundations of Literature Study (3)                 |                     |
| ENGL242 | British Literature Survey II (3)                    |                     |
| ENGL260 | Literature: Classical World (3) Or                  |                     |
| ENGL261 | Medieval and Renaissance Literature                 |                     |
| Core 7  | Natural Science (3)                                 |                     |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

**Fifth Semester**

|            |  |                     |
|------------|--|---------------------|
| ENGL315 or | Shakespeare I (3)                              |                     |
| ENGL319    | Shakespeare II                                 |                     |
| ENGL489    | Literature Criticism: Theory (3)               |                     |
| ENGL       | Topic/Author Selection Elective (3)            |                     |
| SEDU360    | Feat & Inst. Practice (3)                      |                     |
| SEDU350    | Theory & Practices in Secondary<br>Schools (3) |                     |
|            | <b>TOTAL</b>                                   | <b>15 sem. hrs.</b> |

**Sixth Semester**

|         |                                  |                     |
|---------|----------------------------------|---------------------|
| ENGL499 | Thesis Seminar in Literature (3) |                     |
| ENG421  | History of English Language (3)  |                     |
| ENGL425 | Composition Theory (3)           |                     |
| ENGL446 | Adolescent Literature (3)        |                     |
| Core 6  | Ethics (3)                       |                     |
|         | <b>TOTAL</b>                     | <b>15 sem. hrs.</b> |

**Seventh Semester**

|         |   |                     |
|---------|---|---------------------|
| SEDU306 | Content Literacy (3)                                  |                     |
| SEDU381 | Assessment for Middle and Secondary<br>Classrooms (3) |                     |
| SEDU465 | Instructional Techniques (3)                          |                     |
| SEDU491 | Classroom Mgmt. in 7-12 Classrooms (3)                |                     |
| SEDU476 | Middle/Secondary Education Field<br>Experience (3)    |                     |
|         | <b>TOTAL</b>  | <b>15 sem. hrs.</b> |

**Eighth Semester**

|         |                                |                     |
|---------|--------------------------------|---------------------|
| SPED370 | Adapt & Accom Inclus Clsrm (3) |                     |
| SEDU495 | Student Teaching (12)          |                     |
|         | <b>TOTAL</b>                   | <b>15 sem. hrs.</b> |

**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                        | Research Writing (3)                                     |
|      | MATH211                        | Analytic Geometry & Calculus I (4)                       |
|      | SEDU283                        | Technology for Teaching and Learning (3)                 |
| B.   | Core                           | 21 sem. hrs.   |
|      |                                | Artistic Expression (3)                                  |
|      |                                | World Civilizations (3)                                  |
|      |                                | American Civilizations (3)                               |
|      |                                | Human Behavior   |
|      | PSYC101                        | Intro to Psychology (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                           |
|      |                                | Sec Feat & Instr. (3)                                    |
|      |                                | Natural Sciences and Mathematics                         |
|      |                                | MATH212 Analy Geom & Calc II (4)                         |
| II.  | Professional Education         | 36 sem. hrs.   |
|      | SEDU306                        | Content Literacy in the Middle/<br>Secondary Schools (3) |
|      | SEDU350                        | Theory & Practices in Secondary<br>Schools (3)           |
|      | SEDU381                        | Assessment for Middle and Secondary<br>Classrooms (3)    |
|      | SEDU471                        | Instructional Techniques for<br>Mathematics (3)          |
|      | SEDU476                        | Middle/Secondary Field Experience (3)                    |
|      | SEDU491                        | Classroom Management in 7-12<br>Classrooms (3)           |
|      | SEDU495                        | Student Teaching (12)                                    |
|      | SPED210                        | Intro to Except. and Spec. Ed. (3)                       |
|      | SPED370                        | Adapt. & Accom. Inclu. Clsrm (3)                         |
| III. | Specialization in Mathematics  | 40 sem. hrs.   |
| A.   | Required Courses               | 37 sem. hrs.   |
|      | MATH311                        | Analytic Geometry and Calculus III (4)                   |
|      | MATH270                        | Discrete Mathematics I (3)                               |
|      | MATH275                        | Linear Algebra (3)                                       |
|      | MATH290                        | Proof (3)  |
|      | STAT350                        | 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)                                     |
| B.   | Related Course                 | 3 sem. hrs.  |
|      | CSCI130                        | Principles of Programming (3)                            |
|      | <b>TOTAL</b>                   | <b>121 sem. hrs.</b>                                     |

At least 42 semester hours must consist of advanced coursework.  
All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
SEDU271 Fulfills Core 5 for Education Majors Only  
A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY MATHEMATICS****(Suggested Eight-Semester Sequence)****First Semester**

|         |                                    |
|---------|------------------------------------|
| ENGL101 | College Writing Skills (3)         |
| MATH211 | Analytic Geometry & Calculus I (4) |
| PSYC101 | Introduction to Psychology (3)     |
| CSCI130 | Principles of Programming (3)      |
| Core 1  | Artistic Expression (any) (3)      |
|         | Freshman Common Hour               |
|         | <b>TOTAL 16 sem. hrs.</b>          |

**Second Semester**

|         |                                   |
|---------|-----------------------------------|
| ENGL102 | Research Writing (3)              |
| MATH270 | Discrete Mathematics I (3)        |
| SEDU271 | Multicultural Amer Schools (3)    |
| SPED210 | Intro. To Except. & Spec. Ed. (3) |
| Core 2  | World Civilizations (any) (3)     |
|         | <b>TOTAL 16 sem. hrs.</b>         |

**Third Semester**

|         |                                       |
|---------|---------------------------------------|
| MATH275 | Linear Algebra I (3)                  |
| MATH311 | Analytic Geometry & Calculus III (4)  |
| SEDU283 | Tech. for Teaching and Learning (3)   |
| MATH212 | Analytic Geometry and Calculus II (4) |
| Core 6  | Ethics (any) (3)                      |
|         | <b>TOTAL 16 sem. hrs.</b>             |

**Fourth Semester**

|         |                                    |
|---------|------------------------------------|
| MATH290 | Proof (3)                          |
| MATH370 | Discrete Mathematics II (3)        |
| Core 3  | American Civilizations (any) (3)   |
| Core 7  | Natural Sciences (any) (3)         |
| Dist 1  | Humanities and Fine Arts (any) (3) |
|         | <b>TOTAL 15 sem. hrs.</b>          |

**Fifth Semester**

|         |                                  |
|---------|----------------------------------|
| STAT350 | Mathematical Prob/Statistics (3) |
| MATH353 | College Geometry (3)             |
| MATH372 | Hist Roots Math (3)              |
| SEDU350 | Educ Theories & Prac Sec Sch (3) |
| SEDU360 | Secondary Feat and Prac (3)      |
|         | <b>TOTAL 15 sem. hrs.</b>        |

**Sixth Semester**

|         |                           |
|---------|---------------------------|
| MATH403 | Math for Sec Sch Tch (3)  |
| MATH404 | Comp/Calc in SEMA (3)     |
| MATH411 | Math Analysis (3)         |
| MATH421 | Abstract Algebra (3)      |
|         | <b>TOTAL 12 sem. hrs.</b> |

**Seventh Semester**

|         |  |
|---------|--|
| SEDU306 | Content Literacy in the Middle/<br>Secondary Schools (3) |
| SEDU471 | Instructional Techniques for<br>Mathematics (3)          |
| SEDU381 | Assessment for Middle and Secondary<br>Classrooms (3)    |
| SEDU476 | Mid/Sec Ed Field Experience (3)                          |
| SEDU491 | Classroom Management in 7-12<br>Classrooms (3)           |
|         | <b>TOTAL 15 sem. hrs.</b>                                |

**Eighth Semester**

|         |                                   |
|---------|-----------------------------------|
| SPED370 | Adapt. & Accom. Inclu. Clsrm. (3) |
| SEDU495 | Student Teaching (12)             |
|         | <b>TOTAL 15 sem. hrs.</b>         |

**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                        | Research Writing (3)  |
|      | MATH211                        | Analytic Geometry & Calculus I (4)                                    |
|      | SEDU283                        | Technology for Teaching and Learning (3)                              |
| B.   | Core                           | 22 sem. hrs.  |
|      |                                | Artistic Expression (3)   |
|      |                                | World Civilizations (3)   |
|      |                                | American Civilizations (3)  |
|      |                                | Human Behavior – PSYC101 Intro to<br>Psychology (3)                   |
|      |                                | Cultural Diversity and Social Pluralism<br>Multicult Amer Schools (3) |
|      | SEDU271                        | Ethics - GEOG145 Environmental<br>Issues (3)                          |
|      |                                | Natural Science – CHEM240 Principles<br>of Chem I (4)                 |
| C.   | Distribution                   | 10 sem. hrs.  |
|      |                                | Humanities and Fine Arts (3)  |
|      |                                | Social and Behavioral Sciences  |
|      |                                | Sec Feat & Inst. (3)  |
|      | SEDU360                        | Natural Sciences and Mathematics                                      |
|      |                                | Analyt Geom & Calc I (4)  |
|      | MATH212                        |   |
| II.  | Professional Education         | 36 sem. hrs.  |
|      | SEDU306                        | Content Literacy in Mid/Sec Sch. (3)                                  |
|      | SEDU350                        | Theories and Practices in Secondary<br>Schools (3)                    |
|      | SEDU381                        | Assessment for Middle and Secondary<br>Classrooms (3)                 |
|      | SEDU472                        | Instructional Techniques for Secondary<br>Science (3)                 |
|      | SEDU476                        | Mid./Sec. Ed. Field Experience (3)                                    |
|      | SEDU491                        | Classroom Management in 7-12<br>Classrooms (3)                        |
|      | SEDU495                        | Student Teaching (12)   |
|      | SPED210                        | Intro to Except and Spec Ed (3)                                       |
|      | SPED370                        | Adapt & Accom Inclu Clsrm (3)   |
| III. | Specialization in Physics      | 32 sem. hrs.  |
| A.   | Required Courses               | (26 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)  |
|      | PHYS405                        | Advanced Lab* (2)   |
|      | MATH311                        | Analytic Geometry & Calculus III (4)                                  |
| B.   | Physics Electives (6)          |   |
|      | Take 2 of the following 4:     |   |
|      | PHYS420                        | Mechanics I (3)   |
|      | PHYS430                        | Electricity and Mag. I (3)  |
|      | PHYS441                        | Thermal Physics (3)   |
|      | PHYS453                        | Quantum Physics (3)   |
| IV.  | Required Supporting Courses    | 9 sem. hrs.   |
|      | BIOL100                        | Intro to Biology (3)  |
|      | STAT260                        | Elements of Statistics (3)  |
|      | MATH317                        | Intro. to Diff. Equations (3)   |
| V.   | Free Electives (3)             |   |
|      | <b>TOTAL</b>                   | <b>123 sem. hrs.</b>  |

At least 42 semester hours must consist of advanced coursework.  
 All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
 SEDU271 Fulfills Core 5 for Education Majors Only  
 A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

**BACHELOR OF SCIENCE IN EDUCATION –  
 SECONDARY PHYSICS  
 (Suggested Eight-Semester Sequence)**

**First Semester**

|         |                                      |              |
|---------|--------------------------------------|--------------|
| ENGL101 | College Writing Skills (3)           |              |
| MATH211 | Analytic Geometry & Calculus I (4)   |              |
| PHYS150 | Physics Orientation (3)              |              |
| PSYC101 | Introduction to Psychology (3)       |              |
| Core 1  | Artistic Expression (Literature) (3) |              |
|         | Freshman Common Hour                 |              |
|         | <b>TOTAL</b>                         | 16 sem. hrs. |

**Second Semester**

|         |                                 |              |
|---------|---------------------------------|--------------|
| ENGL102 | Research Writing (3)            |              |
| PHYS320 | University Physics I (4)        |              |
| PHYS322 | Physical Measurement I (1)      |              |
| BIOL100 | Intro to Biology (3)            |              |
| SPED210 | Intro to Except and Spec Ed (3) |              |
| SEDU271 | Multicult in Amer Schools (3)   |              |
|         | <b>TOTAL</b>                    | 14 sem. hrs. |

**Third Semester**

|         |                                     |              |
|---------|-------------------------------------|--------------|
| PHYS321 | University Physics II (4)           |              |
| PHYS323 | Physical Measurement II (1)         |              |
| MATH212 | Analytic Geom. and Calculus II (4)  |              |
| SEDU283 | Tech. for Teaching and Learning (3) |              |
|         | <b>TOTAL</b>                        | 15 sem. hrs. |

**Fourth Semester**

|         |                               |              |
|---------|-------------------------------|--------------|
| PHYS325 | Intro to Modern Physics (3)   |              |
| CHEM240 | Principles of Chemistry I (4) |              |
| STAT260 | Elements of Statistics (3)    |              |
| Dist 1  | Humanities and Fine Arts (3)  |              |
| Core 2  | World Civilizations (3)       |              |
|         | <b>TOTAL</b>                  | 15 sem. hrs. |

**Fifth Semester**

|         |   |              |
|---------|---|--------------|
| PHYS    | Physics Electives - Choose one<br>PHYS420,430,441, or 453 (3) |              |
| PHYS405 | Advanced Lab (2)  |              |
| MATH317 | Intro. to Diff. Equations (3)                                 |              |
| SEDU350 | Theories and Practices in Secondary<br>Schools (3)            |              |
| SEDU360 | Secondary Feat and Prac (3)                                   |              |
|         | <b>TOTAL</b>  | 14 sem. hrs. |

**Sixth Semester**

|         |   |              |
|---------|---|--------------|
| PHYS312 | Technical Electronics II (4)                                  |              |
| PHYS    | Physics Electives - Choose one<br>PHYS420,430,441, or 453 (3) |              |
| MATH311 | Analytic Geometry & Calculus III (4)                          |              |
| GEOG145 | Environmental Issues (3)                                      |              |
| Core 3  | American Civilizations (any) (3)                              |              |
|         | <b>TOTAL</b>  | 17 sem. hrs. |

**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<br>Classrooms (3) |              |
| SEDU491 | Classroom Management in 7-12<br>Classrooms (3)        |              |
|         | <b>TOTAL</b>  | 15 sem. hrs. |

**Eighth Semester**

|         |                                |              |
|---------|--------------------------------|--------------|
| SPED370 | Adapt & Accom Inclu Clsrms (3) |              |
| SEDU495 | Student Teaching (12)          |              |
|         | <b>TOTAL</b>                   | 15 sem. hrs. |

**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                          | Research Writing (3)   |
|      | MATH104                          | Finite Math or higher level (3)  |
|      | SEDU283                          | Technology 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<br>Multicul. Amer. Schools (3) |
|      |                                  | Ethics (3)   |
|      |                                  | Natural Science (3)  |
|      | C. Distribution                  | 9 sem. hrs.  |
|      |                                  | Humanities and Fine Arts – Engl Lit 300<br>level or above (3)          |
|      |                                  | Social and Behavioral Sciences<br>Prin of Macroeconomics (3)           |
|      |                                  | Natural Sciences and Mathematics<br>Must be a MATH course (3)          |
| II.  | Professional Education           | 39 sem. hrs.   |
|      | SEDU306                          | Content Literacy in the Middle/<br>Secondary Schools (3)               |
|      | SEDU350                          | Theory & Practices in Secondary<br>Schools (3)                         |
|      | SEDU360                          | Sec Feat & Inst. (3)   |
|      | SEDU381                          | Assessment for Middle and Secondary<br>Classrooms (3)                  |
|      | SEDU473                          | Instructional Techniques for Social<br>Studies (3)                     |
|      | SEDU476                          | Middle/Secondary Field Experience (3)                                  |
|      | SEDU491                          | Classroom Management in 7-12<br>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)                                       |
|      | ECON220                          | Principles of Econ: Micro (3)  |
|      | GEOG101                          | World Geography (3) OR   |
|      | GEOG130                          | Cultural Geography (3)   |
|      | HIST100                          | Study of History (3)   |
|      | HIST102                          | World Civilization II (3)  |
|      | HIST262                          | U.S. History II (3)  |
|      | HIST380                          | Pennsylvania Hist (3)  |
|      | POL1101                          | Intro to American Politics (3)   |
|      | POL1102                          | Introduction to Comparative Politics (3)                               |
|      | POL315                           | American State and Local<br>Government (3)                             |
|      | PSYC390 or                       | Social Psychology (3)  |
|      | SOC326                           | Society and Indiv. (3)   |
|      | SOC100                           | Principles of Sociology (3)  |

|   |               |
|---|---------------|
| B. History Electives  | 3 sem. hrs.   |
| Choose one course from the Geography, U.S. History or World History categories listed below:                                  |               |
| GEOGRAPHY: Any GEOG course at the 300 level or above (3)  |               |
| U.S.: HIST315, 336, 361, 362, 363, 364, 366, 370, 373, 375, 376, 377, 378, 383, 405, 415 (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 |               |
| TOTAL   | 121 sem. hrs. |

A grade of “C” or better must be obtained in all major courses and any courses in general education that are required for major.

**BACHELOR OF SCIENCE IN EDUCATION –  
SECONDARY SOCIAL STUDIES  
(Suggested Eight-Semester Sequence)**

**First Semester**

|         |                                   |
|---------|-----------------------------------|
| ENGL101 | College Writing Skills (3)        |
| HIST101 | World Civilization I (Core 2) (3) |
| HIST100 | Study of History (3)              |
| MATH104 | Finite Math or higher level (3)   |
| PSYC101 | Introduction to Psychology (3)    |
|         | Common Hour                       |
| TOTAL   | 15 sem. hrs.                      |

**Second Semester**

|         |                                      |
|---------|--------------------------------------|
| ENGL102 | Research Writing (3)                 |
| SOC100  | Principles of Sociology (3)          |
| ANTH180 | Introduction to Anthropology (3)     |
| SEDU271 | Multi-cult Amer Schools (Core 5) (3) |
| SPED210 | Intro to Except and Spec Ed (3)      |
| TOTAL   | 15 sem. hrs.                         |

**Third Semester**

|         |                                     |
|---------|-------------------------------------|
| ECON220 | Principles of Microeconomics (3)    |
| HIST102 | World Civilizations II (3)          |
| POLI101 | Intro to American Politics (3)      |
| SEDU283 | Tech. for Teaching and Learning (3) |
| HIST261 | History of U.S. I (3)               |
| TOTAL   | 15 sem. hrs.                        |

**Fourth Semester**

|         |   |
|---------|---|
| ECON225 | Principles of Macroeconomics (Dist 2) (3) |
| HIST262 | History of U.S. II (3)                    |
| Dist 1  | English Literature 300 level or above (3) |
| Core 1  | Artistic Expression (any) (3)             |
| Core 6  | Ethics (any) (3)                          |
| TOTAL   | 15 sem. hrs.                              |

**Fifth Semester**

|            |   |
|------------|---|
| GEOG101 OR | World Geography (3)                         |
| GEOG130    | Cultural Geography                          |
| Dist 3     | Must be a Math Course (3)                   |
|            | History or Social Studies Elective (3)      |
| SEDU350    | Theory & Practices in Secondary Schools (3) |
| SEDU360    | Secondary Feat. & Instr. Prac. (3)          |
| TOTAL      | 15 sem. hrs.                                |

**Sixth Semester**

|            |   |
|------------|---|
| PSYC390 or | Social Psychology (3)                   |
| SOC326     | Society and the Individual (3)          |
| POLI315    | American State and Local Government (3) |
|            | Intro to Comparative Government (3)     |
| POLI102    | Pennsylvania History (3)                |
| HIST380    | Natural Science (any) (3)               |
| Core 7     |   |
| TOTAL      | 18 sem. hrs.                            |

**Seventh Semester**

|         |  |
|---------|--|
| SEDU306 | Content Literacy in the Middle and Secondary Schools (3) |
| SEDU476 | Mid./Sec. Ed. Field Experience (3)                       |
| SEDU381 | Assessment for Middle and Secondary Classrooms (3)       |
| SEDU491 | Classroom Management in 7-12 Classrooms (3)              |
| SEDU473 | Instruc. Techniques/Social Studies (3)                   |
| TOTAL   | 15 sem. hrs.   |

**Eighth Semester**

|         |                                |
|---------|--------------------------------|
| SPED370 | Adapt & Accom Includ Clsrm (3) |
| SEDU495 | Student Teaching (12)          |
| TOTAL   | 15 sem. hrs.                   |

**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                           | Research Writing (3)   |
| MATH211                           | Analytic Geometry & Calculus I (4)                                   |
| SEDU283                           | Technology for Teaching and Learning (3)                             |
| B. Core                           | 22 sem. hrs.   |
|                                   | Artistic Expression (3)  |
|                                   | World Civilizations (3)  |
|                                   | American Civilizations (3)   |
|                                   | Human Behavior – PSYC101 Intro to Psychology (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 ec & Feat Inst (3)                    |
| SEDU360                           | Natural Sciences and Mathematics CHEM301 Organic Chemistry (4)       |
| II. Professional Education        | 54 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)  |
| SEDU350                           | Theory & Practice/Sec Sch (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)                 |
| STAT260                         | Elements of Statistics (3)     |
| CHEM241                         | Principles of Chemistry II (4) |
|                                 | TOTAL 142 sem. hrs.            |

At least 42 semester hours must consist of advanced coursework.

All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.

SEDU271 Fulfills Core 5 for Education Majors Only

A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

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### BACHELOR OF SCIENCE IN EDUCATION – BIOLOGY/ SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)

#### First Semester

|         |                                    |
|---------|------------------------------------|
| ENGL101 | College Writing Skills (3)         |
| MATH211 | Analytic Geometry & Calculus I (4) |
| PSYC101 | General Psychology (Core 4) (3)    |
| Core1   | Artistic Expression (any) (3)      |
| Core 2  | World Civilizations (any) (3)      |
|         | Freshman Common Hour               |
|         | TOTAL 16 sem. hrs.                 |

#### Second Semester

|         |                                      |
|---------|--------------------------------------|
| ENGL102 | Research Writing (3)                 |
| BIOL150 | Principles of Biology (4)            |
| STAT260 | Elements of Statistics (3)           |
| SEDU271 | Multi-Cul Am Schools (Core 5) (3)    |
| SPED210 | Intro to Exception and Spec. Ed. (3) |
|         | TOTAL 19 sem. hrs.                   |

#### Third Semester

|         |                                     |
|---------|-------------------------------------|
| BIOL230 | Botany (4)                          |
| PHYS201 | Physics I (4)                       |
| CHEM240 | Principles of Chem I (Core 7) (4)   |
| SPED320 | High Incidence Disabilities (3)     |
| SPED340 | Low Incidence Disabilities (3)      |
| SEDU283 | Tech. for Teaching and Learning (3) |
|         | TOTAL 18 sem. hrs.                  |

#### Fourth Semester

|         |                                      |
|---------|--------------------------------------|
| BIOL240 | Zoology (4)                          |
| BIOL300 | Genetics (4)                         |
| CHEM241 | Principles of Chemistry II (D-3) (4) |
| PHYS202 | Physics II (4)                       |
| Core 3  | American Civ (any) (3)               |
|         | TOTAL 19 sem. hrs.                   |

#### Fifth Semester

|            |   |
|------------|---|
| BIOL400    | Ecology (4)                               |
| BIOL320 OR | Plant Physiology (4)                      |
| BIOL340    | Animal Physiology                         |
| GEOG145    | Environmental Issues (Core 6) (3)         |
| CHEM301    | General Organic Chemistry (4)             |
| SPED335    | Positive Behavior Support (3)             |
| SPED420    | Assessment of Students w/Disabilities (3) |
|            | TOTAL 17 sem. hrs.                        |

#### Sixth Semester

|                |                                   |
|----------------|-----------------------------------|
| BIOL320 OR     | Plant Physiology (4)              |
| BIOL340        | Animal Physiology                 |
| SPED430        | Collaboration and IEP Devl (3)    |
| SPED380        | Transitions in the Sec. Class (3) |
| SEDU350        | Theory & Practice/Sec. Sch. (3)   |
| SEDU360        | Sec. Feat & Prac. (D-2) (3)       |
| Distribution 1 | Lit 300 level or above (3)        |
|                | TOTAL 19 sem. hrs.                |

#### Seventh Semester

|            |                                       |
|------------|---------------------------------------|
| BIOL ELECT | Elective 300 level or above (3)       |
| SPED461    | Instructional Strategies I/Disab (3)  |
| SPED462    | Instructional Strategies II/Disab (3) |
| SEDU472    | Instructional Tech (3)                |
| SEDU491    | Prof. Perf. Mid. Sec. Classroom (3)   |
| SEDU476    | Field Exp. Mid./Sec. Edu. (3)         |
| SPED440    | Special Education Field (3)           |
|            | TOTAL 18 sem. hrs.                    |

#### Eighth Semester

|         |                            |
|---------|----------------------------|
| SEDU495 | Sec. Student Teaching (6)  |
| SPED495 | Sped. Student Teaching (6) |
|         | TOTAL 15 sem. hrs.         |

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## 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                           | Research Writing (3)                     |
| MATH211                           | Analytic Geometry & Calculus I (4)       |
| SEDU283                           | Technology 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  |
|                                   | Multi-cult 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 (3)             |
|                                   | Social and Behavioral Sciences           |
|                                   | Sec. Feat & Inst. (3)                    |
|                                   | Natural Sciences and Mathematics         |
|                                   | MATH212 Analytic Geom & Calc 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)              |
| SEDU350                           | Theory & Practice/Sec Ed. (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 |   | 14 sem. hrs.  |
|      | PHYS201                     | Physics I (4)                             |               |
|      | PHYS202                     | Physics II (4)                            |               |
|      | STAT260                     | Elements of Statistics (3)                |               |
|      | GEOS101                     | Dynamic Earth (3)                         |               |
|      | TOTAL                       |   | 143 sem. hrs. |

At least 42 semester hours must consist of advanced coursework.

All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.

SEDU271 Fulfills Core 5 for Education Majors Only

A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

### BACHELOR OF SCIENCE IN EDUCATION - CHEMISTRY/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)

#### First Semester

|         |   |              |
|---------|---|--------------|
| ENGL101 | College Writing Skills (3)              |              |
| MATH211 | Analytic Geometry & Calculus I (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 | Research Writing (3)                 |              |
| CHEM241 | Principles of Chemistry II (4)       |              |
| CHEM280 | Laboratory Safety I (1)              |              |
| SPED210 | Intro to Exception and Spec. Ed. (3) |              |
| MATH212 | Analytic Geometry & Calculus II (4)  |              |
| SEDU271 | Multicult Amer Schools (Core 5) (3)  |              |
|         | TOTAL                                | 18 sem. hrs. |

#### Third Semester

|         |                                     |              |
|---------|-------------------------------------|--------------|
| SEDU283 | Tech. for Teaching and Learning (3) |              |
| SPED320 | High Incidence Disabilities (3)     |              |
| SPED340 | Low Incidence Disabilities (3)      |              |
| CHEM310 | Quantitative Analysis (4)           |              |
| CHEM330 | Organic Chemistry I (4)             |              |
| PHYS201 | Physics I (4)                       |              |
|         | TOTAL                               | 21 sem. hrs. |

#### Fourth Semester

|         |                                    |              |
|---------|------------------------------------|--------------|
| CHEM331 | Organic Chemistry II (4)           |              |
| GEOS101 | Dynamic Earth (3)                  |              |
| STAT260 | Elements of Statistics (3)         |              |
| Core 2  | World Civilizations (any) (3)      |              |
| Core 3  | American Civilizations (any) (3)   |              |
| Dist 1  | Humanities and Fine Arts (any) (3) |              |
|         | TOTAL                              | 19 sem. hrs. |

#### Fifth Semester

|         |                                     |              |
|---------|-------------------------------------|--------------|
| SPED335 | Positive Behavior Support (3)       |              |
| SPED420 | Assessment of Students w/ Disab (3) |              |
| CHEM341 | Biochemistry (4)                    |              |
| CHEM530 | Physical Chemistry I (4)            |              |
| PHYS202 | Physics II (3)                      |              |
| GEOG145 | Environmental Issues (Core 6) (3)   |              |
|         | TOTAL                               | 21 sem. hrs. |

#### Sixth Semester

|         |                                      |              |
|---------|--------------------------------------|--------------|
| SEDU350 | Theory & Practice/Sec. Ed (3)        |              |
| SEDU360 | Sec. Feat & Inst. Practice (D-2) (3) |              |
| SPED380 | Transitions in Sec. Class (3)        |              |
| SPED430 | Collaboration & IEP Dev. (3)         |              |
| CHEM531 | Physical Chemistry II (4)            |              |
|         | TOTAL                                | 16 sem. hrs. |

#### Seventh Semester

|         |                                       |              |
|---------|---------------------------------------|--------------|
| SPED461 | Instructional Strategies I/Disab (3)  |              |
| SPED462 | Instructional Strategies II/Disab (3) |              |
| SPED472 | Instructional Techniques (3)          |              |
| SEDU491 | Prof. Perf, Mid./Sec. (3)             |              |
| SPED476 | Field Exp. Mid./Sec. Edu. (3)         |              |
| SPED440 | Special Education Field (3)           |              |
|         | TOTAL                                 | 15 sem. hrs. |

#### Eighth Semester

|         |                            |              |
|---------|----------------------------|--------------|
| 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                        | Research Writing (3)                     |
|     | MATH104                        | Finite Math or higher math (3)           |
|     | SEDU283                        | Technology for Teaching and Learning (3) |
| B.  | Core                           | 21 sem. hrs.                             |
|     |                                | Artistic Expression (3)                  |
|     |                                | World Civilizations (3)                  |
|     |                                | American Civilizations (3)               |
|     |                                | Human Behavior – PSYC101                 |
|     |                                | Introduction to Psychology (3)           |
|     |                                | Cultural Diversity and Social Pluralism  |
|     |                                | Multi-Culturalism/Amer Schools (3)       |
|     |                                | Ethics (3)                               |
|     |                                | Natural Science (3)                      |
| C.  | Distribution                   | 9 sem. hrs.                              |
|     |                                | Humanities and Fine Arts                 |
|     | ENGL201                        | American Lit Survey I (Origins-1865) (3) |
|     |                                | Social and Behavioral Sciences           |
|     | SEDU360                        | Sec. Feat. & Inst. (3)                   |
|     |                                | Natural Sciences and Mathematics         |
|     |                                | Must be MATH course (3)                  |
| II. | Professional Education         | 54 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)              |

|  |  |               |
|--|--|---------------|
| SEDU350  | Theory & Practice/Sec. Ed. (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   |  | 42 sem. hrs.  |
| Core Course  |  | 27 sem. hrs.  |
| COMM107  | Fundamentals of Speech (3)                 |               |
| ENGL202  | American Lit. Survey II (1865-Present) (3) |               |
| ENGL209  | Foundations of Lit. Study (3)              |               |
| ENGL211  | Traditional Grammar (3)                    |               |
| ENGL489  | Lit. Criticism: Theory (3)                 |               |
| ENGL499  | Thesis Seminar in Lit. (3)                 |               |
| ENGL421  | Hist: English Lang. (3)                    |               |
| ENGL425  | Composition Theory (3)                     |               |
| ENGL446  | Adolescent Literature (3)                  |               |
| Literature   |  | 12 sem hrs.   |
| ENGL241  | British Literature Survey I (3)            |               |
| ENGL242  | British Literature Survey II (3)           |               |
| ENGL260  | Lit. of Ancient/Classical World OR         |               |
| ENGL261  | Medieval and Renaissance Lit (3)           |               |
| ENGL315  | Shakespeare I OR                           |               |
| ENGL319  | Shakespeare II (3)                         |               |
| British Literature   |  |               |
| 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. |

At least 42 semester hours must consist of advanced coursework.  
 All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
 SEDU271 Fulfills Core 5 for Education Majors Only  
 A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

**BACHELOR OF SCIENCE IN EDUCATION –  
 COMP ENGLISH/SPECIAL ED 7-12  
 (Suggested Eight-Semester Sequence)**

**First Semester**

|         |                                |              |
|---------|--------------------------------|--------------|
| ENGL101 | College Writing Skills (3)     |              |
| MATH104 | Finite Math or higher math (3) |              |
| PSYC101 | Introduction to Psychology (3) |              |
| COMM107 | Fundamentals of Speech (3)     |              |
| Core 1  | Artistic Expression (3)        |              |
|         | Freshman Common Hour           |              |
| TOTAL   |                                | 15 sem. hrs. |

**Second Semester**

|         |   |              |
|---------|---|--------------|
| Core 3  | American Civilizations (any) (3)                            |              |
| ENGL102 | Research Writing (3)  |              |
| ENGL201 | American Literature Survey I<br>(Origins-1865) (Dist 1) (3) |              |
| SEDU271 | Multiculture in Amer Schools (Core 5) (3)                   |              |
| Dist 3  | MATH- 100 level or higher (3)                               |              |
| SPED210 | Intro to Exception and Spec. Ed. (3)                        |              |
| TOTAL   |   | 18 sem. hrs. |

**Third Semester**

|         |   |              |
|---------|---|--------------|
| SEDU283 | Tech. for Teaching and Learning (3)                 |              |
| Core 2  | World Civilizations (any) (3)                       |              |
| ENGL202 | American Literature Survey II<br>(1865-Present) (3) |              |
| ENGL209 | Foundations of Literature Study (3)                 |              |
| SPED320 | High Incidence Disabilities (3)                     |              |
| SPED340 | Low Incidence Disabilities (3)                      |              |
| TOTAL   |   | 21 sem. hrs. |

**Fourth Semester**

|            |  |              |
|------------|--|--------------|
| ENGL211    | Traditional Grammar (3)                          |              |
| ENGL241    | British Literature Survey I (3)                  |              |
| ENGL260 OR | Literature: Classical World (3)                  |              |
| ENGL261    | Medieval and Renaissance Literature              |              |
| SEDU360    | Secondary Feat. & Instr. Prac. (Dist 2) (3)      |              |
| SEDU350    | Theory and Practices in Secondary<br>Schools (3) |              |
| Core 6     | Ethics (any) (3)                                 |              |
| TOTAL      |  | 18 sem. hrs. |

**Fifth Semester**

|         |                                  |              |
|---------|----------------------------------|--------------|
| ENGL489 | Literature Criticism: Theory (3) |              |
| ENGL315 | Shakespeare I (3) Or             |              |
| ENGL319 | Shakespeare II                   |              |
| ENGL425 | Composition Theory (3)           |              |
| ENGL242 | British Literature Survey II (3) |              |
| Core 7  | Natural Science (3)              |              |
| SPED335 | Positive Behavior Support (3)    |              |
| TOTAL   |                                  | 18 sem. hrs. |

**Sixth Semester**

|         |  |              |
|---------|--|--------------|
| ENGL499 | Thesis Seminar in Literature (3)             |              |
| ENGL421 | History of English Language (3)              |              |
| ENGL446 | Adolescent Literature (3)                    |              |
| SPED420 | Assessment of Students with Disabilities (3) |              |
| SPED380 | Transitions in the Secondary Class (3)       |              |
| TOTAL   |  | 18 sem. hrs. |

**Seventh Semester**

|         |  |              |
|---------|--|--------------|
| SEDU476 | Middle/Secondary Education Field<br>Experience (3) |              |
| SEDU491 | Prof. Perf. Mid/Sec Classroom (3)                  |              |
| SPED461 | Instructional Strategies I/Disab (3)               |              |
| SPED462 | Instructional Strategies II/Disab (3)              |              |
| SPED440 | Special Education Field (3)                        |              |
| SEDU465 | Instructional Techniques (3)                       |              |
|         | English Topic Author Course (3)                    |              |
| TOTAL   |  | 18 sem. hrs. |

**Eighth Semester**

|         |                                 |              |
|---------|---------------------------------|--------------|
| SEDU495 | Student Teaching (6)            |              |
| SPED495 | Special Ed Student Teaching (6) |              |
| TOTAL   |                                 | 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                           | Research Writing (3)                     |
| MATH211                           | Analytic Geometry & Calculus I (4)       |
| SEDU283                           | Technology for Teaching and Learning (3) |
| B. Core                           | 21 sem. hrs.                             |
|                                   | Artistic Expression (3)                  |
|                                   | World Civilizations (3)                  |
|                                   | American Civilizations (3)               |
|                                   | Human Behavior                           |
| PSYC101                           | Intro to Psychology (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 (3)                 |                      |
|                                    | Social and Behavioral Sciences               |                      |
| SEDU360                            | Sec Feat. & Inst. (3)                        |                      |
|                                    | Natural Sciences and Mathematics             |                      |
|                                    | MATH212 Analy Geom & Calc II (4)             |                      |
| II. Professional Education         |  | 54 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)                  |                      |
| SEDU350                            | Theory & Practice/Sec Ed. (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 |  | 40 sem. hrs.         |
| C. Required Courses                |  | 37 sem. hrs.         |
| MATH270                            | Discrete Mathematics I (3)                   |                      |
| MATH275                            | Linear Algebra (3)                           |                      |
| MATH290                            | Proof (3)                                    |                      |
| MATH311                            | Analytic Geometry and Calculus III (4)       |                      |
| STAT350                            | 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)                         |                      |
| D. Related Course                  |  | 3 sem. hrs.          |
| CSCI130                            | Principles of Programming (3)                |                      |
|                                    | <b>TOTAL</b>                                 | <b>138 sem. hrs.</b> |

A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

### BACHELOR OF SCIENCE IN EDUCATION – MATHEMATICS/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)

#### First Semester

|         |                                    |                     |
|---------|------------------------------------|---------------------|
| ENGL101 | College Writing Skills (3)         |                     |
| MATH211 | Analytic Geometry & Calculus I (4) |                     |
| PSYC101 | Introduction to Psychology (3)     |                     |
| CSCI130 | Principles of Programming (3)      |                     |
| Core 1  | Artistic Expression (any) (3)      |                     |
|         | Freshman Common Hour               |                     |
|         | <b>TOTAL</b>                       | <b>16 sem. hrs.</b> |

#### Second Semester

|         |   |                     |
|---------|---|---------------------|
| ENGL102 | Research Writing (3)                    |                     |
| MATH212 | Analytic Geometry and Calculus II (4)   |                     |
| SEDU271 | Multicultural Amer Schools (Core 5) (3) |                     |
| Core 2  | World Civilizations (any) (3)           |                     |
| SPED210 | Intro to Exception and Spec. Ed. (3)    |                     |
|         | <b>TOTAL</b>                            | <b>16 sem. hrs.</b> |

#### Third Semester

|                |                                      |                     |
|----------------|--------------------------------------|---------------------|
| MATH270        | Discrete Mathematics I (4)           |                     |
| MATH311        | Analytical Geometry and Calculus (4) |                     |
| SEDU283        | Tech. for Teaching and Learning (3)  |                     |
| SPED320        | High Incidence Disabilities (3)      |                     |
| SPED340        | Low Incidence Disabilities (3)       |                     |
| Distribution 1 | Humanities and Fine Arts (any) (3)   |                     |
|                | <b>TOTAL</b>                         | <b>19 sem. hrs.</b> |

#### Fourth Semester

|           |                             |                     |
|-----------|-----------------------------|---------------------|
| MATH275   | Linear Algebra I (3)        |                     |
| MATH290   | Proof (3)                   |                     |
| MATH370   | Discrete Mathematics II (3) |                     |
| **MATH372 | History of Roots (3)        |                     |
| **MATH403 | Math for Sec Teachers (3)   |                     |
| Core 3    | American Civilizations (3)  |                     |
|           | <b>TOTAL</b>                | <b>18 sem. hrs.</b> |

#### Fifth Semester

|           |   |                     |
|-----------|---|---------------------|
| MATH353   | College Geometry (3)                      |                     |
| STAT350   | Mathematical Prob/Statistics (3)          |                     |
| **MATH404 | Comp/Calc in SEMA (3)                     |                     |
| SPED335   | Positive Behavior Support (3)             |                     |
| SPED420   | Assessment of Students w/Disabilities (3) |                     |
| Core 6    | Ethics (any) (3)                          |                     |
|           | <b>TOTAL</b>                              | <b>21 sem. hrs.</b> |

#### Sixth Semester

|         |  |                     |
|---------|--|---------------------|
| MATH411 | Math Analysis (3)                      |                     |
| MATH421 | Abstract Algebra (3)                   |                     |
| SEDU350 | Theory & Practice/Sec Ed (3)           |                     |
| SEDU360 | Sec Feat & Inst Practices (D-2) (3)    |                     |
| SPED430 | Collaboration & IEP Dev. (3)           |                     |
| SPED380 | Transitions in the Secondary Class (3) |                     |
|         | <b>TOTAL</b>                           | <b>18 sem. hrs.</b> |

#### Seventh Semester

|         |   |                     |
|---------|---|---------------------|
| SPED461 | Instructional Strategies I/Disab (3)        |                     |
| SPED462 | Instructional Strategies II/Disab (3)       |                     |
| SEDU471 | Instructional Techniques (3)                |                     |
| SEDU491 | Classroom Management in 7-12 Classrooms (3) |                     |
| SEDU476 | Mid/Sec Ed Field Experience (3)             |                     |
| SPED440 | Special Education Field (3)                 |                     |
| Core 7  | Natural Science (any) (3)                   |                     |
|         | <b>TOTAL</b>                                | <b>18 sem. hrs.</b> |

#### Eighth Semester

|         |                                 |                     |
|---------|---------------------------------|---------------------|
| SEDU495 | Student Teaching (6)            |                     |
| SPED495 | Special Ed Student Teaching (6) |                     |
|         | <b>TOTAL</b>                    | <b>15 sem. hrs.</b> |

\*\* These courses are only offered every three semesters and MATH403 and MATH404 are in opposite semesters.

## 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                           | Research Writing (3)                     |
| MATH211                           | Analytical Geometry & Calculus I (4)     |
| SEDU283                           | Technology for Teaching and Learning (3) |

|                                 |   |               |
|---------------------------------|---|---------------|
| B. Core                         |   | 22 sem. hrs.  |
|                                 | Artistic Expression (3)                     |               |
|                                 | World Civilizations (3)                     |               |
|                                 | American Civilizations (3)                  |               |
|                                 | Human Behavior                              |               |
| PSYC101                         | Intro to Psychology (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              |               |
| SEDU360                         | Sec Feat. & Inst (3)                        |               |
|                                 | Natural Sciences and Mathematics            |               |
| MATH212                         | Analyt Geom & Calc II (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)                 |               |
| SEDU350                         | Theory & Practices/Sec Sch. (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  |   | 28 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)                |               |
| PHYS405                         | Advanced Lab (2)                            |               |
| B. Physics Electives            |   | 6 sem. hrs.   |
|                                 | Take 2 of the following 4:                  |               |
| PHYS420                         | Mechanics I (3)                             |               |
| PHYS430                         | Electricity and Mag. I (3)                  |               |
| PHYS441                         | Thermal Physics (3)                         |               |
| PHYS453                         | Quantum Physics (3)                         |               |
| IV. Required Supporting Courses |   | 13 sem. hrs.  |
| BIOL100                         | Intro to Biology (3)                        |               |
| STAT360                         | Elements of Statistics (3)                  |               |
| MATH311                         | Analytical Geometry & Calculus III (4)      |               |
| MATH317                         | Intro. to Diff. Equations (3)               |               |
|                                 | TOTAL                                       | 140 sem. hrs. |

At least 42 semester hours must consist of advanced coursework.  
 All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
 SEDU271 Fulfills Core 5 for Education Majors Only  
 A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

## BACHELOR OF SCIENCE IN EDUCATION – PHYSICS/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)

### First Semester

|         |   |
|---------|---|
| ENGL101 | College Writing Skills (3)              |
| MATH211 | Analytic Geometry & Calculus I (3)      |
| PSYC101 | Introduction to Psychology (Core 4) (3) |
| PHYS150 | Physics Orientation (3)                 |
| Core 1  | Artistic Expression (Literature) (3)    |
|         | Freshman Common Hour                    |
|         | TOTAL 16 sem. hrs.                      |

### Second Semester

|         |                                      |
|---------|--------------------------------------|
| ENGL102 | Research Writing (3)                 |
| PHYS320 | University Physics I (4)             |
| BIOL100 | Intro to Biology (3)                 |
| SPED210 | Intro to Exception and Spec. Ed. (3) |
| MATH212 | Analytic Geometry & Calculus II (4)  |
|         | TOTAL 17 sem. hrs.                   |

### Third Semester

|         |  |
|---------|--|
| STAT260 | Elements of Statistics (3)             |
| PHYS321 | University Physics II (4)              |
| SPED320 | High Incidence Disabilities (3)        |
| SPED340 | Low Incidence Disabilities (3)         |
| CHEM240 | Principles of Chemistry I (Core 7) (4) |
| SEDU283 | Technology for Teaching & Learning (3) |
|         | TOTAL 20 sem. hrs.                     |

### Fourth Semester

|         |   |
|---------|---|
| SEDU271 | Multicultural American Schools (Core 5) (3) |
| PHYS325 | Intro to Modern Physics (3)                 |
| Core 2  | World Civilizations (any) (3)               |
| Core 3  | American Civilizations (any) (3)            |
| Dist 1  | Humanities and Fine Arts (any) (3)          |
| PHYS322 | Physical Measurements I (1)                 |
|         | TOTAL 16 sem. hrs.                          |

### Fifth Semester

|               |   |
|---------------|---|
| SEDU360       | Secondary Feat. & Instr. Prac (Dist 2) (3)                        |
| SEDU350       | Theory and Practices in Secondary Schools (3)                     |
| PHYS405       | Advanced Lab (2)  |
| SPED335       | Positive Behavior Support (3)                                     |
| SPED420       | Assessment of Students with Disabilities (3)                      |
| PHYS323       | Physical Measurements II (1)                                      |
| PHYS Elective | Choose 1 of the following: PHYS420, PHYS430, PHYS441, PHYS453 (3) |
|               | TOTAL 18 sem. hrs.  |

### Sixth Semester

|               |   |
|---------------|---|
| MATH317       | Intro to Diff. Equations (3)  |
| PHYS312       | Technical Electronics II (4)  |
| PHYS Elective | Choose one of the following: PHYS420, PHYS430, PHYS441, PHYS453 (3) |
| SPED430       | Collaboration & IEP Development (3)                                 |
| SPED380       | Transitions in the Secondary Class (3)                              |
| GEOG145       | Environmental Issues (Core 6) (3)                                   |
|               | TOTAL 19 sem. hrs.  |

### Seventh Semester

|         |   |
|---------|---|
| SEDU476 | Field Exp. Mid./Sec. Edu. (3)               |
| SPED461 | Instructional Strategies I/Disab (3)        |
| SPED462 | Instructional Strategies II/Disab (3)       |
| SPED440 | Special Education Field (3)                 |
| SEDU472 | Instructional Techniques (3)                |
| MATH311 | Analytical Geometry & Calculus III (4)      |
| SEDU491 | Classroom Management in 7-12 Classrooms (3) |
|         | TOTAL 19 sem. hrs.                          |

### Eighth Semester

|         |                      |
|---------|----------------------|
| SEDU495 | Student Teaching (6) |
| 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                          | Research Writing 3                       |
|      | MATH104                          | Finite Math or higher level (3)          |
|      | SEDU283                          | 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 U.S. I (3)                       |
|      |                                  | Human Behavior                           |
|      | PSYC101                          | Intro to Psychology (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           |
|      | ECON225                          | Prin of Econ: Macro (3)                  |
|      |                                  | Natural Sciences and Mathematics-        |
|      |                                  | Must be a MATH Course (3)                |
| II.  | Professional Education           | 57 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)              |
|      | SEDU350                          | Theory & Practice/Sec Sch. (3)           |
|      | SEDU360                          | Sec. Feat & Inst. (3)                    |
|      | SEDU473                          | Instructional Techniques for Social      |
|      |                                  | Studies (3)                              |
|      | SEDU476                          | Field Exp Mid/Sec Education (3)          |
|      | SEDU491                          | Prof. Perf. Mid/Sec Classroom (3)        |
|      | SEDU495                          | Student Teaching (6)                     |
|      | SPED495                          | Student Teaching (6)                     |
| III. | Specialization in Social Studies | 42 sem. hrs.                             |
| A.   | Required Courses                 | 36 sem hrs.                              |
|      | ANTH180                          | Introduction to Anthropology (3)         |
|      | ECON220                          | Principles of Microeconomics (3)         |
|      | GEOG101                          | World Geography (3) OR                   |
|      | GEOG130                          | Cultural Geography (3)                   |
|      | HIST100                          | Study of History (3)                     |
|      | HIST102                          | World Civilization II (3)                |
|      | HIST262                          | U.S. History II (3)                      |
|      | HIST380                          | Pennsylvania Hist (3)                    |
|      | POLI101                          | American Politics (3)                    |
|      | POLI102                          | Introduction to Comparative Politics (3) |
|      | POLI315                          | American State and Local Government (3)  |
|      | SOC100                           | Principles of Sociology (3)              |
|      | PSYC390                          | Social Psychology (3)OR                  |
|      | SOC326                           | Society and Indiv. (3)                   |

|    |   |               |
|----|---|---------------|
| B. | History Electives-  | 6 sem. hrs.   |
|    | Choose 2  |               |
|    | A GEOG course at the 300 level or above                     |               |
|    | 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   |               |
|    | TOTAL   | 141 sem. hrs. |

At least 42 semester hours must consist of advanced coursework.  
All Secondary education Majors must complete a 3 SH Literature course, and two Math courses at the 100 level or above to comply with PDE certification requirements.  
SEDU271 Fulfills Core 5 for Education Majors Only  
A grade of "C" or better must be obtained in all major courses and any courses in general education that are required for major.

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### BACHELOR OF SCIENCE IN EDUCATION – SOCIAL STUDIES/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)

#### First Semester

|         |                                 |              |
|---------|---------------------------------|--------------|
| ENGL101 | College Writing Skills (3)      |              |
| HIST101 | World Civilization I (3)        |              |
| MATH104 | Finite Math or higher level (3) |              |
| PSYC101 | Introduction to Psychology (3)  |              |
| POLI101 | American Politics (3)           |              |
|         | Core 1 Artistic Expression (3)  |              |
|         | TOTAL                           | 18 sem. hrs. |

#### Second Semester

|         |   |              |
|---------|---|--------------|
| ENGL102 | Research Writing (3)                        |              |
| SOC100  | Principles of Sociology (3)                 |              |
| SEDU271 | Multicultural American Schools (Core 5) (3) |              |
| SPED210 | Intro to Exception and Spec. Ed. (3)        |              |
| Core 7  | Natural Science (any) (3)                   |              |
| HIST102 | World Civilizations II (3)                  |              |
|         | TOTAL                                       | 18 sem. hrs. |

#### Third Semester

|         |                                     |              |
|---------|-------------------------------------|--------------|
| Dist 1  | English Lit 300 level or above (3)  |              |
| ANTH180 | Intro to Anthropology (3)           |              |
| SPED320 | High Incidence Disabilities (3)     |              |
| SPED340 | Low Incidence Disabilities (3)      |              |
| ECON220 | Principles of Microeconomics (3)    |              |
| HIST261 | History of US I (Core 3) (3)        |              |
| SEDU283 | Tech. for Teaching and Learning (3) |              |
|         | TOTAL                               | 18 sem. hrs. |

#### Fourth Semester

|            |                                   |              |
|------------|-----------------------------------|--------------|
| POLI102    | Intro to Comparative Politics (3) |              |
| Dist 3     | Must be a Math Course (3)         |              |
| HIST262    | History of U.S. II (3)            |              |
| GEOG101 OR | World Geography                   |              |
| GEOG130    | Cultural Geography (3)            |              |
| ECON225    | Principles of Macroeconomics (3)  |              |
|            | TOTAL                             | 18 sem. hrs. |

#### Fifth Semester

|                  |  |              |
|------------------|--|--------------|
| SEDU350          | Theory & Practices Secondary Schools (3) |              |
| SEDU360          | Secondary Feat, & Inst. Prac. (3)        |              |
| HIST380          | Pennsylvania History (3)                 |              |
| SPED335          | Positive Behavior Support (3)            |              |
| SPED420          | Assessment of Students with              |              |
|                  | Disabilities (3)                         |              |
| History Elective | Choose one History/Social Studies        |              |
|                  | Elective (3)                             |              |
|                  | TOTAL                                    | 18 sem. hrs. |

**Sixth Semester**

|  |  |              |  |
|--|--|--------------|--|
| PSYC390 OR<br>POLI315                          | Social Psychology (3)<br>American State and Local<br>Government (3)  |              |  |
| HIST Elective<br>SPED430<br>SPED380<br>HIST101 | Choose History/Social Studies Elective (3)<br>Collaboration & IEP Dev. (3)<br>Transitions in the Secondary Class (3)<br>Study of History (3) |              |  |
|  | TOTAL  | 18 sem. hrs. |  |

**Seventh Semester**

|   |   |              |  |
|---|---|--------------|--|
| SEDU476   | Middle & Secondary Education Field<br>Exp. (3)  |              |  |
| SPED461<br>SPED462<br>SPED440<br>SEDU473<br>SEDU491 | Instructional Strategies I/Disab (3)<br>Instructional Strategies II/Disab (3)<br>Special Education Field (3)<br>Instructional Techniques/SS (3)<br>Classroom Management in 7-12<br>Classrooms (3) |              |  |
| Core 6  | Ethics (any) (3)  |              |  |
|   | TOTAL   | 18 sem. hrs. |  |

**Eighth Semester**

|                    |  |              |  |
|--------------------|--|--------------|--|
| SEDU495<br>SPED495 | Student Teaching (6)<br>Student Teaching (6) |              |  |
|                    | TOTAL  | 15 sem. hrs. |  |

**Bachelor of Science in Art Education Degree**

Please refer to the Art Department section for information regarding the Art Education program.

**Health and Physical Education  
Department**

**FACULTY:** Amy Eperthener, Kenneth R. Felker, Michael Haesy, Laura M. Miller, Shawn S. Reagan, James Roberts, Ruth Stauffer, Rebecca Wehler

**Bachelor of Science Degree**

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.. 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   | Research Writing (3)        |              |
| MATH104   | Finite Math (3)             |              |
| HPE384    | Tech Integration in HPE (3) |              |

|            |   |                 |
|------------|---|-----------------|
| B. Core ** |   | 21-22 sem. hrs. |
|            | Artistic Expression (3)PDE Lit Course<br>World Civilization (3)<br>American Civilization (3)<br>Human Behavior (3) PSYC101**<br>Cultural Diversity/Social Pluralism (3)<br>SEDU 271**<br>Ethics (3)<br>Natural Science (3) or (4)<br>PHYS101 or PHYS201** |                 |

|                   |  |             |
|-------------------|--|-------------|
| C. Distribution** |  | 9 sem. hrs. |
|                   | Humanities and Fine Arts (3) PR/<br>COMM298/COMM107/PDE Lit Course **<br>Social/Behavioral Sciences (3)<br>Science and Mathematics (3) STAT260/<br>BIOL101** |             |

**\*\*Core and Distribution courses may be defined based on program** A grade of "C" or better is required for all required Core Courses and required Concentration Courses

**Exercise Science****REQUIRED CORE COURSES – EXERCISE SCIENCE****21 sem. hrs.**

|        |   |
|--------|---|
| HPE265 | Health Emergencies (3)  |
| HPE312 | Organization and Admin of Recreation<br>and Sports Programs (3) |
| HPE384 | Technology Integration HPE (3)**                                |
| HPE406 | Worksite Field Experience (3)                                   |
| HPE496 | Internship in HPE (12)  |

\*\*Fulfills General Education Skills – CSCI 104 Essential Comp

**MAJOR COURSES –EXERCISE SCIENCE 39 sem. hrs.**

|                           |   |
|---------------------------|---|
| HPE132                    | Health & Fitness Promo in Workplace (3)             |
| HPE222                    | Principles of Fitness Instruction (3)               |
| HPE270                    | Sports Nutrition (3)                                |
| HPE300                    | Applied Human Anatomy &<br>Physiology I in HPE (3)* |
| HPE301                    | Applied Human Anatomy &<br>Physiology II in HPE (3) |
| HPE314                    | Kinesiology (3)                                     |
| HPE350                    | Exercise Physiology I (3)                           |
| HPE360                    | Adapted Physical Education (3)                      |
| HPE365                    | Exercise Testing & Prescription (3)                 |
| HPE402                    | Legal Aspects of Sport/Rec (3)                      |
| HPE450                    | Exercise Physiology II (3)                          |
| HPE470                    | Research in Human Performance (3)                   |
| HPE223, HPE310, or HPE410 | (3)   |

**FREE ELECTIVES –EXERCISE SCIENCE 17-18 sem. hrs.**

A grade of "C" or better is required for all required Core Courses and required Concentration Courses

**HEALTH AND PHYSICAL EDUCATION 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 sem. hrs.**

|        |                                  |
|--------|----------------------------------|
| HPE265 | Health Emergencies (3)           |
| HPE311 | Planning & Evaluation in HPE (3) |
| HPE384 | Technology Integration HPE (3)** |
| HPE405 | HPE Field Experience (3)         |
| HPE495 | Student Teaching (12)            |

\*\*Fulfills General Education Skills – CSCI 104 Essential Comp

**CONCENTRATION COURSES – TEACHER CERTIFICATION 60 sem. hrs.**

|         |  |
|---------|--|
| 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 for 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)****                                      |

\*\* 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 sem. hrs.**

|         |                               |
|---------|-------------------------------|
| MATH105 | College Algebra or higher (3) |
|---------|-------------------------------|

A grade of “C” or better is required for all required Core Courses and required Concentration Courses

**Health & Wellness Studies****REQUIRED CORE COURSES – HEALTH & WELLNESS STUDIES 21 sem. hrs.**

|        |                                  |
|--------|----------------------------------|
| 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)           |

\*\*Fulfills General Education Skills – CSCI 104 Essential Comp

**MAJOR COURSES – HEALTH & WELLNESS STUDIES 39 sem. hrs.**

|        |  |
|--------|--|
| HPE132 | Health & Fitness Promo in Workplace (3)          |
| HPE133 | Personal Health (3)                              |
| HPE135 | Drugs/Alcohol/Tobacco (3)                        |
| HPE222 | Principles of Fitness Instruction (3)            |
| HPE241 | Stress Management (3)                            |
| HPE245 | Human Sexuality (3)                              |
| HPE249 | Weight Management (3)                            |
| HPE300 | Applied Human Anatomy & Physiology I in HPE (3)  |
| HPE301 | Applied Human Anatomy & Physiology II in HPE (3) |
| HPE320 | Consumer Health (3)                              |
| HPE364 | Health Methodology (3)                           |
| HPE400 | Critical Issues in Health (3)                    |
| PR360  | Writing for Public Relations (3)                 |

**FREE ELECTIVES – HEALTH & WELLNESS STUDIES 18 sem. hrs.**

A grade of “C” or better is required for all required Core Courses and required Concentration Courses

**Sport & Recreation Management****REQUIRED CORE COURSES – SPORT & RECREATION MANAGEMENT 21 sem. hrs.**

|        |   |
|--------|---|
| HPE265 | Health Emergencies (3)                                      |
| HPE312 | Organization and Admin of Recreation and Sport Programs (3) |
| HPE384 | Technology Integration HPE (3)**                            |
| HPE406 | Worksite Field Experience (3)                               |
| HPE496 | Internship in HPE (12)                                      |

\*\*Fulfills General Education Skills – CSCI 104 Essential Comp

**MAJOR COURSES – SPORT & RECREATION MANAGEMENT 39 sem. hrs.**

|        |   |
|--------|---|
| HPE132 | Health & Fitness Promo in Workplace (3)                             |
| HPE145 | Intro to Rec/Leisure (3)  |
| HPE252 | Leadership in Recreation Management (3)                             |
| HPE301 | Applied Human Anatomy & Physiology II in HPE (3)                    |
| HPE315 | Management of Sport & Physical Education (3)                        |
| HPE316 | Administration of Intercollegiate Athletics & Campus Recreation (3) |
| HPE323 | Contemporary Topics in Sport and Recreation Management (3)          |

|                       |                                       |
|-----------------------|---------------------------------------|
| HPE324                | Outdoor Recreational Programming (3)  |
| HPE402                | Legal Aspects of Sport Recreation (3) |
| HPE410                | Facility Management & Operation (3)   |
| COMM230               | Organizational Communication (3)      |
| JOUR226               | Digital Media Design (3)              |
| JOUR 324 or PR360 (3) |                                       |

**FREE ELECTIVES – SPORT & RECREATION MANAGEMENT**  
18 sem. hrs.

A grade of “C” or better is required for all required Core Courses and required Concentration Courses

**BACHELOR OF SCIENCE IN EXERCISE SCIENCE**  
(Suggested Eight-Semester Sequence)

**First Semester**

|         |   |
|---------|---|
| ENGL101 | College Writing Skills (3)                |
| HPE132  | Health/Fitness Promotion in Workplace (3) |
| HPE265  | Health Emergencies (3)                    |
| MATH104 | Finite Mathematics (3) or higher          |
| PSYC101 | Intro to Psychology – Core 4 (3)          |
|         | TOTAL 15 sem. hrs.                        |

**Second Semester**

|         |                                       |
|---------|---------------------------------------|
| ENGL102 | Research Writing (3)                  |
| HPE222  | Principles of Fitness Instruction (3) |
|         | Core 6 (3)                            |
|         | Free Elective (3)                     |
|         | Free Elective (3)                     |
|         | TOTAL 15 sem. hrs.                    |

**Third Semester**

|                       |  |
|-----------------------|--|
| HPE300                | App Anatomy & Physiology for HPE I (3) |
| HPE270                | Sports Nutrition (3)                   |
| PHYS101 or<br>PHYS201 | Physical Science (3)                   |
|                       | Physics I (4)                          |
|                       | Core 1 (3)                             |
|                       | Core 2 (3)                             |
|                       | TOTAL 15-16 sem. hrs.                  |

**Fourth Semester**

|                                 |   |
|---------------------------------|---|
| HPE301                          | App Anatomy & Physiology for HPE II (3) |
| HPE223, HPE 310, or HPE 410 (3) |   |
|                                 | Core 3 (3)                              |
|                                 | Core 5 (3)                              |
|                                 | Free Elective (3)                       |
|                                 | TOTAL 15 sem. hrs.                      |

**Fifth Semester**

|         |   |
|---------|---|
| HPE314  | Kinesiology (3)                             |
| HPE350  | Exercise Physiology (3)                     |
| HPE402  | Legal Aspects of Sports/Rec (3)             |
| STAT260 | Elements of Statistics – Distribution 3 (3) |
|         | Distribution 1 (3)                          |
|         | Free Elective (3)                           |
|         | TOTAL 18 sem. hrs.                          |

**Sixth Semester**

|        |                                     |
|--------|-------------------------------------|
| HPE360 | Adapted Physical Education (3)      |
| HPE384 | Tech Integration in HPE (3)         |
| HPE365 | Exercise Testing & Prescription (3) |
| HPE450 | Exercise Physiology II (3)          |
| HPE470 | Research in Human Performance (3)   |
|        | TOTAL 15 sem. hrs.                  |

**Seventh Semester**

|        |                               |
|--------|-------------------------------|
| HPE311 | Planning & Evaluation HPE (3) |
| HPE406 | Worksite Field Experience (3) |
|        | Distribution 2 (3)            |
|        | Free Elective (3)             |
|        | Free Elective (3)             |
|        | TOTAL 15 sem. hrs.            |

**Eighth Semester**

|        |                        |
|--------|------------------------|
| HPE496 | Internship in HPE (12) |
|        | TOTAL 12 sem. hrs.     |

**BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL  
EDUCATION – TEACHER CERTIFICATION**  
(Suggested Eight-Semester Sequence)

**First Semester**

|         |                                     |
|---------|-------------------------------------|
| ENGL101 | College Writing Skills (3)          |
| HPE133  | Personal and Community Health I (3) |
| HPE220  | Basketball/Soccer/Track & Field (3) |
| HPE265  | Health Emergencies (3)              |
| MATH104 | Finite Mathematics (3) or higher    |
|         | TOTAL 15 sem. hrs.                  |

**Second Semester**

|         |  |
|---------|--|
| ENGL102 | Research Writing (3)                               |
| HPE135  | Drugs/Alcohol/Tobacco (3)                          |
| HPE278  | Physical Education in the Elem. School (3)         |
| MATH105 | College Algebra (or higher) (3)                    |
|         | Core 1 (3) (Recommended ENGL 115<br>or Literature) |
|         | TOTAL 15 sem. hrs.                                 |

**Third Semester**

|         |  |
|---------|--|
| 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) –<br>Core 5 |
|         | TOTAL 18 sem. hrs.                             |

**Fourth Semester**

|         |   |
|---------|---|
| HPE222  | Principles of Fitness Instruction (3)           |
| HPE245  | Human Sexuality (3)                             |
| SPED210 | Intro to Exceptionalities and Special Ed (3)    |
|         | Core 3 (3)                                      |
|         | Core 6 (Recommended HPE101<br>Sport Ethics) (3) |
|         | Distribution 1 (3)                              |
|         | TOTAL 18 sem. hrs.                              |

**Fifth Semester**

|        |  |
|--------|--|
| HPE300 | Applied Human Anatomy/Physiology in<br>HPE I (3) |
| HPE306 | Classroom Management in HPE (3)                  |
| HPE350 | Exercise Physiology (3)                          |
| HPE360 | Adapted Physical Education (3)                   |
|        | Distribution 2 (3)                               |
|        | TOTAL 15 sem. hrs.                               |

**Sixth Semester**

|        |   |
|--------|---|
| HPE301 | App. Anatomy & Physiology in HPE II (3)                 |
| HPE311 | Planning and Evaluation in HPE (3)                      |
| HPE315 | Management of Sports/Physical<br>Education Programs (3) |
| HPE364 | Health Methodology (3)                                  |
| HPE400 | Critical Issues in Health (3)                           |
|        | TOTAL 15 sem. hrs.                                      |

**Seventh Semester**

|         |   |
|---------|---|
| HPE314  | Kinesiology (3)   |
| HPE384  | Technology Integration in HPE (3) –<br>Computer Competency Course |
| HPE405  | HPE Field Experience (3)  |
| SPED370 | Adaptations and Accoms in Inclusive<br>Settings (3)               |
|         | Core 2 (3)  |
|         | Core 7 (3)  |
|         | TOTAL 18 sem. hrs.  |

**Eighth Semester**

|        |                       |
|--------|-----------------------|
| HPE495 | Student Teaching (12) |
|        | TOTAL 12 sem. hrs.    |

**BACHELOR OF SCIENCE IN HEALTH & WELLNESS STUDIES  
(Suggested Eight-Semester Sequence)****First Semester**

|         |                                     |
|---------|-------------------------------------|
| ENGL101 | College Writing Skills (3)          |
| HPE133  | Personal and Community Health I (3) |
| HPE265  | Health Emergencies (3)              |
| MATH104 | Finite Mathematics (3) or higher    |
| PSYC101 | Intro to Psychology – Core 4 (3)    |
| TOTAL   | 15 sem. hrs.                        |

**Second Semester**

|         |  |
|---------|--|
| ENGL102 | Research Writing (3)                             |
| HPE135  | Alcohol, Tobacco, and Other Drug Education (3)   |
| COMM107 | Public Speaking-Distribution 1 (3)<br>Core 1 (3) |
|         | Free Elective (3)                                |
| TOTAL   | 15 sem. hrs.                                     |

**Third Semester**

|        |   |
|--------|---|
| HPE132 | Health & Fitness Promotion in the Workplace (3) |
| HPE241 | Stress Management (3)<br>Core 2 (3)             |
|        | Distribution 3 (3)                              |
|        | Free Elective (3)                               |
| TOTAL  | 15 sem. hrs.                                    |

**Fourth Semester**

|        |  |
|--------|--|
| HPE222 | Principles of Fitness Instruction (3)          |
| HPE245 | Human Sexuality (3)                            |
| HPE300 | App Human Anatomy & Physiology in HPE I (3)    |
| PR360  | Writing for Public Relations (3)<br>Core 5 (3) |
| TOTAL  | 15 sem. hrs.                                   |

**Fifth Semester**

|        |  |
|--------|--|
| HPE249 | Weight Management (3)                                      |
| HPE301 | App Human Anatomy & Physiology in HPE II (3)<br>Core 7 (3) |
|        | Distribution 2 (3)   |
|        | Free Elective (3)  |
| TOTAL  | 15 sem. hrs.   |

**Sixth Semester**

|        |   |
|--------|---|
| HPE320 | Consumer Health (3)                         |
| HPE364 | Health Methodology (3)                      |
| HPE384 | Technology Integration HPE (3)              |
| HPE400 | Critical Issues in Health (3)<br>Core 6 (3) |
|        | Free Elective (3)                           |
| TOTAL  | 18 sem. hrs.                                |

**Seventh Semester**

|        |   |
|--------|---|
| HPE311 | Planning & Evaluation in HPE (3)            |
| HPE406 | Worksite Field Experience (3)<br>Core 3 (3) |
|        | Free Elective (3)                           |
|        | Free Elective (3)                           |
| TOTAL  | 15 sem. hrs.                                |

**Eighth Semester**

|        |                        |
|--------|------------------------|
| HPE496 | Internship in HPE (12) |
| TOTAL  | 12 sem. hrs.           |

**BACHELOR OF SCIENCE IN SPORT AND RECREATION  
MANAGEMENT****(Suggested Eight-Semester Sequence)****First Semester**

|         |   |
|---------|---|
| ENGL101 | College Writing Skills (3)                |
| HPE132  | Health/Fitness Promotion in Workplace (3) |
| HPE265  | Health Emergencies (3)                    |
| MATH104 | Finite Mathematics (3) or higher          |
|         | Core 4 (3)                                |
| TOTAL   | 15 sem. hrs.                              |

**Second Semester**

|         |   |
|---------|---|
| ENGL102 | Research Writing (3)                    |
| HPE252  | Leadership in Recreation Management (3) |
|         | Core 6 (3)                              |
|         | Distribution 3 (3)                      |
| TOTAL   | 15 sem. hrs.                            |

**Third Semester**

|            |   |
|------------|---|
| HPE145     | Introduction to Recreation and Leisure Management (3) |
| HPE301     | App Anatomy & Physiology for HPE II (3)               |
| PR/COMM298 | Business & Professional Communication (3)             |
|            | Core 1 (3)  |
|            | Core 2 (3)  |
| TOTAL      | 15 sem. hrs.  |

**Fourth Semester**

|                   |  |
|-------------------|--|
| HPE323            | Contemporary Topics in Sport and Recreation Management (3) |
| HPE324            | Outdoor Recreation Programs (3)                            |
| JOUR 324 or PR360 | Sports Writing (3)<br>Writing for Public Relations (3)     |
|                   | Core 3 (3)   |
|                   | Free Elective (3)  |
| TOTAL             | 15 sem. hrs.   |

**Fifth Semester**

|         |   |
|---------|---|
| COMM230 | Organizational Communication (3)                                    |
| HPE312  | Organization and Admin of Recreation and Sport Programs (3)         |
| HPE316  | Administration of Intercollegiate Athletics & Campus Recreation (3) |
|         | Core 5 (3)  |
|         | Free Elective (3)   |
| TOTAL   | 18 sem. hrs.  |

**Sixth Semester**

|         |  |
|---------|--|
| HPE315  | Management of Sport & Physical Education (3) |
| JOUR226 | Digital Media Design (3)                     |
| HPE402  | Legal Aspects of Sports Recreation (3)       |
| HPE384  | Technology Integration HPE (3)               |
|         | Core 7 (3)                                   |
|         | Free Elective (3)                            |
|         | Free Elective (3)                            |
| TOTAL   | 18 sem. hrs.                                 |

**Seventh Semester**

|        |                                       |
|--------|---------------------------------------|
| HPE406 | Worksite Field Experience (3)         |
| HPE410 | Facility Management and Operation (3) |
|        | Distribution 2 (3)                    |
|        | Free Elective (3)                     |
|        | Free Elective (3)                     |
| TOTAL  | 15 sem. hrs.                          |

**Eighth Semester**

|        |                        |
|--------|------------------------|
| HPE496 | Internship in HPE (12) |
| TOTAL  | 12 sem. hrs.           |

# 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 programs require a minimum of 18 semester hours, and a minimum of six credits of advanced standing coursework. All students completing their first undergraduate minor must take at least 50% of the credits required for the minor from a State System University.

Minor programs are self-advised. They are structured to enable students to follow the program with limited advice. A student cannot minor in their major field of study (i.e., the major (or concentration) and minor cannot share the same name). A student is permitted to be awarded a maximum of four minors from the University.

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. 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.

## RELATED POLICIES

PASSHE, Board of Governors Policies, Procedures and Standards for University Operations 2016-24 Graduation Residency Requirements: 1985-01-A: Requirements for Initiation or Change of Credit-Based Academic Programs.

## Accounting

The minor in accounting is designed to provide the student with a broad coverage of essential accounting and tax topics needed for a general understanding of how business decisions affect the profitability of businesses. Students will gain an understanding of how financial statements are prepared and interpreted, how taxes impact businesses, how costs affect pricing decisions, and how to maintain accounting records using a computerized system.

## PREREQUISITES

none

## CURRICULUM

|                        |                                 |                     |
|------------------------|---------------------------------|---------------------|
| ACCT215                | Principles of Accounting I (3)  |                     |
| ACCT220                | Principles of Accounting II (3) |                     |
| ACCT221                | Accounting Info Systems (3)     |                     |
| ACCT315                | Intermediate Accounting I (3)   |                     |
| ACCT325                | Managerial Accounting (3)       |                     |
| ACCT330 or ACCT335 (3) |                                 |                     |
|                        | <b>TOTAL</b>                    | <b>18 sem. hrs.</b> |

## Adaptive Leadership and Military Studies

The Adaptive Leadership and Military Studies minor provides students with an opportunity to enhance their individual leadership skills and prepare them for organizational leadership opportunities. This minor will benefit both interested students and ROTC cadets, as it capitalizes on their experience in the ROTC program and allows them to earn a minor through their existing Military Science course progression. This minor will also provide additional opportunities for Veterans to earn life experience credit in a structured and managed way.

Students interested in pursuing the minor can participate in all ROTC activities without a military service obligation. You will gain an understanding of how the Army is structured and learn valuable management skills that will help you in any civilian career field. You will also gain life skills in an experiential learning environment that will gain you a better understanding of yourself and help you develop your leadership skills.

## PREREQUISITES

None

## CURRICULUM

|             |  |                     |
|-------------|--|---------------------|
| A. Core     |  | 18 sem. hrs.        |
| MILS101     | Introduction to ROTC (1)                       |                     |
| MILS102     | Introduction to Leadership (1)                 |                     |
| MILS201     | Self/Team Development (2)                      |                     |
| MILS202     | Individual /Team Military Tactics (2)          |                     |
| MILS301     | Leading Small Organizations (3)                |                     |
| MILS302     | Leading Small Organizations II (3)             |                     |
| MILS401     | Leadership Challenges/Goal Setting (3)         |                     |
| MILS402     | Transition to Lieutenant (3)                   |                     |
| B. Elective |  | 3 sem. hrs.         |
|             | Select one course from the following:          |                     |
| HIST330     | World War II: Causes Through Consequences (3)  |                     |
| HIST333     | History Terrorism (3)                          |                     |
| HIST362     | The American Revolution (3)                    |                     |
| HIST375     | US Military History (3)                        |                     |
| HIST376     | US in Vietnam (3)                              |                     |
| HIST383     | American in the Revolutionary World (3)        |                     |
| HIST476     | History of Women and War (3)                   |                     |
| HIST478     | Indian Wars of the American West (3)           |                     |
| HIST565     | Slavery, Civil War, and Reconstruction (3)     |                     |
| HIST394     | Special Topics in History (3-12)               |                     |
| HIST475     | Seminar in the History of Military Thought (3) |                     |
|             | <b>TOTAL</b>                                   | <b>21 sem. hrs.</b> |

## 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)                   |                     |
|  | <b>TOTAL</b>                               | <b>21 sem. hrs.</b> |

### Anthropology

Anthropology studies people and cultures from around the world and through time. It covers a wide range of topics including forensic analysis of human remains, human evolution, the material remains of past cultures, and the world that humans create through their ideas and practices. Because anthropology is concerned with understanding human interaction, it is a useful minor for anyone planning a career that involves working with people, especially those from diverse cultures. A minor in anthropology also provides a global perspective and helps develop thinking skills critical to succeeding in business, research, teaching, advocacy, and public service.

#### PREREQUISITES

All normal prerequisites apply

#### CURRICULUM

Any Anthropology courses and up to six semester hours of Archaeology courses of the student’s choice to total 18sem. hrs.

\*At least two courses (6 credits) must be at the upper level (300 or higher).

**TOTAL** 18 sem. hrs.

### Applied Mathematics

The minor in Applied Mathematics program allows the student to obtain the skills necessary to successfully apply mathematics to problem solving, while concurrently allowing the students to concentration their studies in another major of interest. Many students will be able to pursue this minor, since nearly all of the semester hours required meet general education requirements. This minor provides an opportunity for students to gain an understanding of important mathematical aspects of basic scientific principles. Furthermore, the program helps develop the capacity to analyze a variety of life situations by modeling many of the associated problems using appropriate mathematical tools. As students in this program develop their problem-solving competence, they move beyond simply being able to use logical models proposed by other, to being capable of creating their own techniques for problem solving. Completion of this program will give the student the necessary tools to pursue many technical fields.

#### CURRICULUM

|  |   |                     |
|--|---|---------------------|
| A. <b>Required Courses</b>   |   | 12 sem. hrs.        |
| MATH208  | Essentials of Calculus (3)                  |                     |
| MATH270  | Discrete Math I (3)                         |                     |
| MATH275  | Linear Algebra I (3)                        |                     |
| STAT300  | Applied Statistic Methods/Data Analysis (3) |                     |
| B. <b>Electives Option 1: Choose two of the following:</b>                   |   | 6 sem. hrs.         |
| MATH 209   | Mathematics of Finance (3)                  |                     |
| STAT360  | Statistical Inference (3)                   |                     |
| MATH 370   | Discrete Mathematics II (3)                 |                     |
| <b>Option 2: One course from the Option 1 list and one of the following:</b> |   |                     |
| CSCI 354   | Automata (3)                                |                     |
| CSCI 385   | Data Struct. & An. of Algorithms (3)        |                     |
| ECON 410   | Economic Forecasting (3)                    |                     |
| ECON 420   | Econometrics (3)                            |                     |
|  | <b>TOTAL</b>                                | <b>18 sem. hrs.</b> |

### Archaeology

Archaeology focuses on the systematic study of the human past through the excavation, recovery, and interpretation of artifacts and other associated material culture. Archaeologists are interested in the reconstruction of past lifeways and the interpretation of ancient social, political, and economic systems. A minor in archaeology will provide an introduction to past civilizations and cultures around the globe and to the analytical methods, techniques, and theories that archaeologists use. Students who complete the archaeology minor often pursue graduate training or find employment in areas such as writing or publishing, museums and galleries, government service, historical preservation, or careers in contract archaeology and cultural resource management.

#### PREREQUISITES

All normal prerequisites apply

#### CURRICULUM

*Select six of the following to total 18 sem. hrs.*

|          |  |                     |
|----------|--|---------------------|
| ANTH 220 | Museum Ethics  |                     |
| ANTH 371 | Introduction to Archaeology  |                     |
| ANTH 373 | Archaeological Field Studies   |                     |
| ANTH 376 | Biblical Archaeology   |                     |
| ANTH 378 | Native America Before Columbus   |                     |
| ANTH 379 | From Early Man to Early Civilization in the Old World  |                     |
| ANTH 395 | Field Experiences in Archaeology   |                     |
| ANTH 500 | Basic Archaeology for the Teacher  |                     |
|          | Relevant individual special topics (ANTH 397), independent study (ANTH 490-494), and internships (ANTH 495) courses only as approved by the Program Director |                     |
|          | <b>TOTAL</b>   | <b>18 sem. hrs.</b> |

### Art History

#### PREREQUISITES

None

#### CURRICULUM

|                          |              |                     |
|--------------------------|--------------|---------------------|
| *Any Art History Courses |              | 21 sem. hrs.        |
|                          | <b>TOTAL</b> | <b>21 sem. hrs.</b> |

\*ART100 Intro to Art will not count toward a minor.

## Astronomy

The Minor in Astronomy requires a grounding in algebra and trigonometry and provides introductory physics instruction followed by a selection of courses from a menu of astronomy topics including the sun, solar system, galaxies, black holes, relativity and cosmology. Students who have either a lifelong interest in space or astronomy, or simply a yearning to know more about the universe in which we live, would find the minor program instructive.

### PREREQUISITES

For the Track I sequence, MATH211 Calculus I and MATH212 Calculus II are required. For the Track II sequence, either MATH 106 Trigonometry or MATH 107 Pre-Calculus is required.

### CURRICULUM

|   |   |              |
|---|---|--------------|
| A. Basic Physics Sequence                           |   | 8 sem. hrs.  |
| Track I:  |   |              |
| PHYS320   | University Physics I (4)                  |              |
| PHYS321   | University Physics II (4)                 |              |
| Track II:   |   |              |
| PHYS201   | Physics I (4)                             |              |
| PHYS202   | Physics II (4)                            |              |
| B. Astronomy Sequence                               |   | 12 sem. hrs. |
| Track I & II: Choose 12 credits from the following: |   |              |
| PHYS271   | Frontiers in Astronomy (3)                |              |
| PHYS302   | The Nature of Light and Color (3)         |              |
| PHYS371   | The Solar System (3)                      |              |
| PHYS410   | Optics (3)                                |              |
| PHYS471   | Relativity, Black Holes and Cosmology (3) |              |
| PHYS472   | The Sun (3)                               |              |
|   | TOTAL                                     | 20 sem. hrs. |

## Athletic Coaching

The Athletic Coaching minor prepares students to be successful in all levels of coaching, from volunteer coaching of recreational sports to paid coaching at the intercollegiate level. Students will take courses in coaching methods, history of sports, team sports pedagogy, athletic injuries, and current coaching strategies, among others. The minor is an excellent addition for students looking to coach at any level of sport or related activity.

### 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                              | Contemporary Topics in Sport & Recreation Management (3)          |              |
| HPE350                              | Exercise Physiology (3)   |              |
| HPE428                              | Coaching Techniques (3)   |              |
| <i>One of the following courses</i> |   |              |
| HPE220                              | Pedagogy for Team Games (Basketball, Track and Field, Soccer) (3) |              |
| HPE225                              | Pedagogy for Team Games (Softball, Volleyball, Football) (3)      |              |
| HPE230                              | Pedagogy for Lifetime Activities: (Golf/Tennis/Badminton) (3)     |              |
|                                     | TOTAL   | 21 sem. hrs. |

## Biology

The minor in Biology provides a solid core of fundamental biology courses coupled with advanced biology electives from which you can choose to customize your studies. In addition to deepening your understanding and appreciation of the living world, a biology minor expands your potential career and graduate school opportunities by enabling you to take your non-biology major in exciting new directions. Whatever your major, if you want to bring a scientific understanding of animals, plants, and/or human biology into your degree studies and your future career, the biology minor is designed to work for you.

### PREREQUISITES

None (Note: individual biology courses at the 200 level and above often have pre-requisites that you will need to meet in order to take those courses).

### CURRICULUM

Any biology, nutrition, Pymatuning courses of the student's choice with at least 6 semester hours at the 300 level or above.

TOTAL 18 sem. hrs.

## Broadcast Meteorology

The Broadcast Meteorology minor provides students with a marketable applied skill set in both the broadcasting and meteorological professions. Students who complete the minor in Broadcast Meteorology will have working knowledge of technical television production skills, will develop presentation skills for a general public audience, in addition to a vocabulary and functional understanding of meteorological concepts and competencies.

### CURRICULUM

|            |                                      |
|------------|--------------------------------------|
| JOUR200    | Journalism Ethics (Core 6) (3)       |
| JOUR309    | Intro to TV Production (3)           |
| JOUR310    | Broadcast Journalism (3)             |
| JOUR419*   | Advanced Video Production (3)        |
| GEOS303**  | Climate Science (Distribution 3) (3) |
| GEOS320    | Meteorology I (3)                    |
| GEOS321*** | Meteorology II (3)                   |
|            | TOTAL 21 sem. hrs.                   |

\*Prerequisite: JOUR309

\*\*Prerequisite: Complete Core 7 (Natural Science) and MATH104

\*\*\*Prerequisite: GEOS320

## 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**

The minor in chemistry provides a broad background in chemical principles including quantitative analysis. As an addition to a major in another science field it may make a student a better candidate for acceptance into graduate or professional programs, or employment in a chemistry-related field such as environmental science or quality assurance.

**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                   |
| ENGL203 | Creative Writing        |
- TOTAL 21 sem. hrs.

**Communication Studies****PREREQUISITES**

None

**CURRICULUM**

Choose any six (6) Communication courses (COMM) for a total of 18 semester hours. At least six semester hours in the minor must be upper division courses (300 level or above).

TOTAL 18 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 to apply technology to his/her major field of study. The minor can be coordinated with virtually any academic discipline.

|         |                                      |
|---------|--------------------------------------|
| CSCI125 | Introduction to Computer Science (3) |
| CSCI130 | Principles of Programming I (3)      |
| CSCI230 | Principles of Programming II (3)     |

Nine semester hours from the following:

Any 200, 300, or 400 level CSCI course with at most 3 semester hours from 200 level (9)

TOTAL 18 sem. hrs.

**Conflict Management**

The minor in conflict management provides undergraduate students across the University with the knowledge and skills necessary for managing and resolving conflict that arises and becomes entrenched in interpersonal, group, organizational, and intercultural contexts. The minor is designed to develop competencies that enable individuals and groups to productively mediate ongoing conflict and negotiate crisis events that impede the realization of goals and objectives, undermine normative practices, and threaten to derail constructive human relationships at all levels of communication.

**PREREQUISITES**

none

**CURRICULUM**

- A. Required Courses 12 sem. hrs.
- |         |                                   |
|---------|-----------------------------------|
| COMM290 | Intro. to Conflict Mgmt. (3)      |
| COMM340 | Conflict, Power, & Comm (3)       |
| COMM475 | Intercultural Conflict & Comm (3) |
| COMM485 | Crisis Management (3)             |
- B. Elective Course (Choose one) 3 sem. hrs.
- |         |                            |
|---------|----------------------------|
| COMM311 | Argumentation & Debate (3) |
| COMM335 | Comm. Difference (3)       |
| COMM360 | Freedom of Speech (3)      |
- C. Capstone Course 3 sem. hrs.
- |         |                       |
|---------|-----------------------|
| COMM465 | Managing Conflict (3) |
|---------|-----------------------|
- TOTAL 18 sem. hrs.

**Creative Writing**

The Creative Writing Minor allows students to compile a portfolio of original writing in a variety of genres. By completing workshop courses at the introductory, intermediate, and advanced levels, students will practice techniques common to all good writing, employ a variety of styles and approaches unique to individual genres, and deepen their experience of writing as an artistic discipline.

**PREREQUISITES**

|             |                                  |
|-------------|----------------------------------|
| ENGL101/103 | College Writing Skills/Advanced  |
| ENGL102/104 | Research Writing Skills/Advanced |

**CURRICULUM**

Seven courses in the following sequence:

- Core 6 sem. hrs.
 

|         |                          |
|---------|--------------------------|
| ENGL203 | Creative Writing (3)     |
| ENGL206 | Advanced Composition (3) |
- Editing Course 3 sem. hrs.
 

|         |                            |
|---------|----------------------------|
| ENGL308 | Literary Editing Practicum |
|---------|----------------------------|
- Intermediate Writing Courses 12 sem. hrs.
 

*Choose three from:*

|         |                            |
|---------|----------------------------|
| ENGL302 | Fiction Workshop (3)       |
| ENGL312 | Essay Workshop (3)         |
| ENGL313 | Graphic Novel Workshop (3) |
| ENGL318 | Poetry Workshop (3)        |
| ENGL322 | Screenwriting (3)          |

|   |                                    |
|---|------------------------------------|
| 4. Advanced Writing Course ( <i>Choose one from</i> ) | 3 sem. hrs.                        |
| ENGL441   | Advanced Fiction Writing (3)       |
| ENGL442   | Advanced Poetry Writing (3)        |
| ENGL443   | Advanced Creative Nonfiction (3)   |
| ENGL444   | Advanced Screenwriting (3)         |
| ENGL445   | Advanced Graphic Novel Writing (3) |
|   | TOTAL 21 sem. hrs.                 |

## Criminal Justice

The minor in Criminal Justice is designed to introduce students to the three major subsystems of the criminal justice system—police, courts, and corrections. The minor includes exposure to the significant functions of the criminal justice system and seeks to expose students to important issues in context to modern society. Course work for the minor is designed in such a way to lead interested students to easily transition into the major.

### CURRICULUM

|   |                                      |
|---|--------------------------------------|
| Required Courses                            | 18 sem. hrs.                         |
| CRIM100                                     | Introduction to Criminal Justice (3) |
| CRIM210                                     | Corrections in America (3)           |
| CRIM230                                     | Police and Society (3)               |
| CRIM265                                     | Courts and Criminal Law (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)             |
| PHIL205                            | Critical Thinking (3)                     |
| PHIL327                            | Beginning Logic (3)                       |
| B. Electives                       | 9 sem. hrs.                               |
| Three courses to be selected from: |   |
| CHEM120 OR                         | Elementary Chemistry (3)                  |
| CHEM140                            | General Chemistry (4)                     |
| COMM507                            | Criticism of Mass Media Communication (3) |
| PHIL420                            | Logic (3)                                 |
| PHIL323                            | Paranormal Claims (3)                     |
| PHYS201 or                         | Physics I (4)                             |
| POLI322                            | Public Opinion and Propaganda (3)         |
| PSYC300                            | Learning Theory and Application (3)       |
| PSYC390                            | Social Psychology (3)                     |
|                                    | TOTAL 18 sem. hrs.                        |

## Data Analytics

The minor in Data Analytics provides students an overview of the basic elements of statistics and data analysis, including use of appropriate technology. It serves as a valuable complement to any major in which students analyze or interpret data.

### MINOR REQUIREMENTS

|                     |   |
|---------------------|---|
| A. Required Courses | 9 sem. hrs.                                       |
| DSCI 101            | Introduction to Data Analytics (3)                |
| DSCI 210 OR         | Introduction to Scientific Prog. 1 (3)            |
| CSCI 130            | Principles of Programming I (3)                   |
| STAT 260 OR         | Elements of Statistics (3)                        |
| STAT 300 OR         | Applied Statistical Methods/<br>Data Analysis (3) |
| STAT 360            | Statistical Inference (3)                         |

|                     |             |
|---------------------|-------------|
| B. Elective Courses | 9 sem. hrs. |
|---------------------|-------------|

Select three of the following:

|             |   |
|-------------|---|
| DSCI 201    | Advanced Spreadsheets (3)                         |
| DSCI 301    | Advanced Data Science Tools (3)                   |
| DSCI 310 or | Introduction to Scientific Prog. II (3)           |
| CSCI 230    | Principles of Programming II (3)                  |
| DSCI 460    | Machine Learning (3)                              |
| DSCI 490    | Data Science Capstone (3)                         |
| CSCI 313    | Data Base Management Systems (3)                  |
| MATH 208    | Essentials of Calculus (3)                        |
| MATH 275    | Linear Algebra I (3)                              |
| STAT 300*   | Applied Statistical Methods/<br>Data Analysis (3) |
| STAT 360*   | Statistical Inference (3)                         |

\* If not used as a required course.

NOTE: At least 6 credits must be advanced coursework.

## Deaf Studies

The minor in Deaf Studies provides students with a detailed view of persons who have a hearing loss. This cluster of courses examines the development of the sense of hearing through adulthood and the ramifications of hearing loss on development, language choice, academic achievement, identity, and adult life. The minor also emphasizes a cultural view of Deafness that includes Deaf literature, history, and American Sign Language. In addition, students will gain an awareness of the various settings and fields where people who are D/deaf or hard of hearing would be encountered.

Students must take the four required courses (12 credits) and choose either Block 1 or Block 2\* (6 credits).

\*Students majoring in Speech and Hearing Sciences must take Block 2 for the minor.

### PREREQUISITES

None

### CURRICULUM

|                         |  |
|-------------------------|--|
| A. Required Courses: 12 |  |
| CSD230                  | Intro. to Audiology                                |
| SPED267                 | ASL & Deaf Culture I                               |
| SPED268                 | ASL & Deaf Culture II                              |
| CSD331                  | Communication for Individuals with<br>Hearing Loss |

### Choose between Block 1 or Block 2

|                    |                           |
|--------------------|---------------------------|
| B. Block 1:        |                           |
| CSD 515            | Audiologic Rehabilitation |
| CSD300 or SPED 340 |                           |

### OR

|              |                         |
|--------------|-------------------------|
| B. Block 2*: |                         |
| SPED 340     | Low Incid. Disabilities |
| ECED 150     | Child Development II    |

## Digital Media Production

The Digital Media Production minor will prepare students to use, analyze and produce content for online, mass media, and organizational distribution from their primary occupational post. The minor will focus on developing multiple media literacies, analytic abilities, and narrative skills in functional media contexts. In this program, students will develop media portfolios. The applied audio, video, graphical, and web skills that students learn will complement writing, critical analysis and creative development. At least six semester hours in the minor must be upper division courses (300 level or above).

|                           |                                   |
|---------------------------|-----------------------------------|
| <b>CURRICULUM:</b>        | 18 sem. hrs.                      |
| A. Each of the Following: |                                   |
| JOUR214                   | Journalism & Society (3)          |
| JOUR209                   | Media Aesthetics (3)              |
| JOUR226                   | Digital Media Design (3)          |
| JOUR309                   | TV Production (3)                 |
| JOUR340                   | Media & Audience (3)              |
| B. One of the Following:  |                                   |
| JOUR250                   | Photojournalism (3)               |
| JOUR307                   | Audio Production (3)              |
| JOUR417                   | Advanced Digital Media Design (3) |
| JOUR419                   | Advanced Video Production (3)     |
| TOTAL                     | 18 sem. hrs.                      |

## Drawing

### PREREQUISITES

Art Major

|   |   |
|---|---|
| <b>CURRICULUM</b>                             | 21 sem. hrs.  |
| 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.  |

## Dyslexia Intervention

The Dyslexia Intervention minor provides students with critical information related to dyslexia and dyslexia intervention. Topics addressed include foundational language and literacy concepts, the identification of students with dyslexic characteristics, principles of structured language teaching, and research-based intervention techniques. The minor can be coordinated with virtually any academic discipline.

|                   |  |
|-------------------|--|
| <b>CURRICULUM</b> | 18 sem. hrs.   |
| READ/SPED 424     | Intro to Dyslexia (3)  |
| READ 425          | Fund Phonics & Eng. Lang Str (3)                                 |
| SPED 350          | Language/Literacy/Excep (3)                                      |
| READ 706          | Found of Literacy: Theory/Ins (3)                                |
| READ 427          | Principles of Struc Lang Tchg I (3)<br>(Prerequisite: READ 424)  |
| READ 428          | Principles of Struc Lang Tchg II (3)<br>(Prerequisite: READ 427) |
| TOTAL             | 18 sem. hrs.   |

## Earth Sciences

The minor in Earth Sciences is designed to introduce the student to the fundamental knowledge base, skill set and techniques related to understanding Earth system history, processes and interactions. The minor includes broad exposure to the spheres of the Earth – land, water, life, air – as well as approaches used to understand, assess and solve basic Earth Science problems.

### 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 or  | Dynamic Earth (3)                |
| 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

The minor in economics is designed to introduce the student to the core concepts of economics. The analytic skills and knowledge of economics developed in the minor in economics will be useful to students in all disciplines who will be contributing to business and public policy decisions. Students completing the minor in economics develop analytical skills through exploring the paradigms of microeconomics and macroeconomics at the intermediate level and increase their understanding of economics institutions and of applications of economic principles.

### Prerequisites:

None

### Curriculum:

|   |                                    |
|---|------------------------------------|
| A. Required Courses   | 9 sem. hrs.                        |
| ECON220   | Principles of Microeconomics (3)   |
| ECON225   | Principles of Macroeconomics (3)   |
| Mathematics Requirement   |                                    |
| MATH150   | Math for Business (3) OR           |
| MATH208   | Essentials of Calculus (3) OR      |
| MATH211   | Analytical Geometry/Calculus I (3) |
| 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 draws from both the Literature and the Writing Concentrations in 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 a writing course, an English language/linguistics course, and a course in literary methodologies.

### Prerequisites:

|             |                                 |
|-------------|---------------------------------|
| ENGL101/103 | College Writing Skills/Advanced |
| ENGL102/104 | Research Writing /Advanced      |

### Curriculum:

|   |                                       |
|---|---------------------------------------|
| A. Required Courses   | 9 sem. hrs.                           |
| ENGL209   | Foundations for Literary Study (3)    |
| ENGL211   | Traditional Grammar (3)               |
| ENGL206   | Advanced Composition (3)              |
| B. Literature Survey Courses (Choose at least two courses from the following list): | 6 sem. hrs.                           |
| ENGL201 or  | American Literature Survey I (3)      |
| ENGL202   | American Literature Survey II (3)     |
| ENGL 241 or   | British Literature (3) -              |
| ENGL242   | British Literature (3)                |
| ENGL260 or  | Literature of the Classical World (3) |
| ENGL261   | Literature of the Renaissance (3)     |

|   |              |
|---|--------------|
| C. Literature Electives   | 6 sem hrs.   |
| (Select 300 or 400 level courses. One of these courses must be a Topics or Authors course(ENGL 332-340, ENGL 411-416) |              |
| TOTAL   | 21 sem. hrs. |

|                                      |  |
|--------------------------------------|--|
| <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.                               |

## Environmental Geology

The purpose of the Environmental Geology minor is to provide the student knowledge and expertise in addressing issues related to the interactions between society and the Earth system. The student can focus on landscape formation, ocean science, resources, hazards and/or environment-human impacts with this more specialized Geology minor.

### PREREQUISITES

None

### CURRICULUM

|         |                                  |
|---------|----------------------------------|
| GEOS101 | Dynamic Earth (3)                |
| GEOS112 | Principles of Earth History (3)  |
| GEOS375 | Environmental Geology (3)        |
| GEOS310 | Intro to Oceanography (3)        |
| GEOS541 | Geomorphology (3)                |
| GEOS545 | Introduction to Hydrogeology (3) |
| TOTAL   | 18 sem. hrs.                     |

## Environmental Studies

The purpose of the Environmental Studies minor is to provide the student with knowledge and expertise in addressing issues related to interactions between people and the environment. The minor includes broad exposure of contemporary global, national, and local environmental and natural resource issues. In addition, the student will gain knowledge and skills used in allied science disciplines.

### PREREQUISITES

None

### CURRICULUM

|                  |                                       |
|------------------|---------------------------------------|
| Required Courses | 18-19 sem. hrs.                       |
| GEOG145          | Environmental Issues (3)              |
| GEOG245          | Conservation of Natural Resources (3) |
| GEOS101 or       | Dynamic Earth (3)                     |
| GEOS104          | Intro. to Earth Environments (3)      |
| GEOS109          | Atmosphere and Space Science (3)      |
| BIOL102 or       | Environmental Biology (3)             |
| BIOL500          | Ecology (3)                           |
| CHEM120 or       | Elementary Chemistry (3)              |
| CHEM140 or       | General Chemistry (4)                 |
| CHEM240          | Principles of Chemistry I (4)         |
| TOTAL            | 18-19 sem. hrs.                       |

## Fitness Instruction/Personal Training

The Fitness Instruction/Personal Training minor provides students with the core classes needed to work with individual and group fitness clients in community, corporate, recreational, and other settings. Students will take courses in exercise physiology, sports nutrition, fitness assessment, and development of group and individual fitness programs, among others. This minor is an excellent choice for students interested in entering the fitness industry.

### 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)                       |

## Forensic Studies

The Forensic Studies minor is comprised of a core of three courses that represent an introduction to two key methodological areas within the forensic sciences- criminalistics and forensic anthropology- as well as an overview of the nature of forensic inquiry. Students will then select one course to more fully develop their skills in an advanced level forensic course. In addition, the students will select three supporting courses from a variety of majors on a forensically related topic.

### PREREQUISITES

All normal prerequisites apply

### CURRICULUM

|   |   |
|---|---|
| A. Core                                     |   |
| FORS100                                     | Introduction to Forensic Studies                    |
| ANTH310                                     | Introduction to Forensic Anthropology               |
| CRIM335                                     | Criminalistics                                      |
| B. Supporting Courses                       |   |
| 1. Select three courses from the following: |   |
| CRIM340                                     | Criminal Investigations                             |
| CRIM440                                     | Emergency Management                                |
| CRIM443                                     | Arson Detection                                     |
| CRIM467                                     | Wrongful Convictions                                |
| HIST333                                     | History of Terrorism                                |
| HIST372                                     | History of American Violence                        |
| HIST379                                     | History of US Police                                |
| PHIL425                                     | Philosophy of Science                               |
| PSYC350                                     | Drugs and Human Behavior                            |
| PSYC365                                     | Abnormal Psychology                                 |
| SOC300                                      | Victimology   |
| SOC335                                      | Juvenile Delinquency                                |
| SOC432                                      | Advanced Criminology                                |
| C. Advanced Forensic Methods                |   |
| 1. Select one course from the following:    |   |
| ACCT430                                     | Forensic Accounting                                 |
| ANTH373                                     | Archaeology Field Studies I                         |
| ANTH510                                     | Advanced Theory and Method in Forensic Anthropology |
| CRIM465                                     | Advanced Criminalistics                             |
| NUHL425                                     | Disaster Response and Recovery                      |
| NURS420                                     | Forensic Nursing                                    |
| TOTAL                                       | 21 sem. hrs   |

## General Art

### PREREQUISITES

None

### CURRICULUM

|  |                              |
|--|------------------------------|
| A. Required Courses  | 9 sem. hrs.                  |
| ART101 OR  | Two-Dimensional Design (3)   |
| ART102   | Three-Dimensional Design (3) |
| ART106   | Drawing I (3)                |
| ARHI323 OR   | Art of the 20th Century (3)  |
| 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. <i>Select Three courses from the following:</i> |  | 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)                                       |                     |
|  | <b>TOTAL</b>   | <b>18 sem. hrs.</b> |

## 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 or   | World Geography                              |                     |
| 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

The minor in Geology is designed to introduce the student to the fundamental concepts of the traditional geological sciences. Depending on GEOS course selection, however, students can design a minor that incorporates geologic content beyond the realm of the traditional program.

The minor includes broad exposure to rock-forming processes and Earth history as well as the knowledge base, skill set and techniques used to solve basic geologic problems.

### 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 and 6 credits must be upper level courses 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 Mary Beth Mason in the Communication Sciences and Disorders 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                     |              |
|     | PFP360 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/ Government Budgeting                                 |              |
|     | ECON508 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)                                 |              |
|     | CSD220 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)                          |              |
|     | TOTAL   | 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 and Interactive Design

The minor in Graphic & Interactive Design provides a thorough introduction to the foundational principles of graphic design practice and the software used by professionals in the field. Studies in layout, typography, website design, and motion graphics add a valuable skill set to complement a student's chosen major.

## PREREQUISITES

None

## CURRICULUM

|    |   |              |
|----|---|--------------|
| A. | Required Courses                        | 15 sem. hrs. |
|    | ART101 Two-Dimensional Design (3)       |              |
|    | ART258 Graphic Design Software (3)      |              |
|    | ART301 Principles of Graphic Design (3) |              |
|    | ART305 Typography I (3)                 |              |
|    | ART326 Web Design (3)                   |              |
| B. | One of the following:                   | 3 sem. hrs.  |
|    | ART 103 & Four-Dimensional Design       |              |
|    | ART105 Color (3)                        |              |
|    | ART310 Typography II (3)                |              |
|    | ART327 Corporate Identity (3)           |              |
|    | ART430 Motion Design (3)                |              |
|    | TOTAL                                   | 18 sem. hrs. |

## Health Studies

The minor in Health Studies provides students with a broad range of experiences in the basic elements of health and wellness studies. Students will take a variety of health content, application, and health behavior theory courses. This minor is an excellent addition for students who are interested in working with people in areas such as wellness education and health counseling.

## CURRICULUM

|    |  |              |
|----|--|--------------|
| A. | Required Courses   | 9 sem. hrs.  |
|    | HPE133 Personal Health I (3)                             |              |
|    | HPE364 Health Methodology (3)                            |              |
| B. | Two of the following courses:                            |              |
|    | HPE132 Health and Fitness Promotion in the Workplace (3) |              |
|    | HPE320 Consumer Health (3)                               |              |
|    | HPE400 Critical Issues in Health (3)                     |              |
| C. | Three of the following courses:                          |              |
|    | HPE135 Drugs/Alcohol/Tobacco (3)                         |              |
|    | HPE241 Stress Management (3)                             |              |
|    | HPE245 Human Sexuality (3)                               |              |
|    | HPE249 Weight Management (3)                             |              |
|    | HPE265 Health Emergencies (3)                            |              |
|    | TOTAL  | 21 sem. hrs. |

## History

A minor in history (6 individually selected courses and 6 credits must be upper level 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. |
| TOTAL  | 18 sem. hrs. |



## Illustration

The minor in Illustration provides a core of fundamental art and illustration courses with a selection of advanced illustration electives from which students can choose to customize their studies. In addition to deepening students' understanding and appreciation of the complex field of illustration, the illustration minor expands their potential career and graduate school opportunities by serving to complement their major area of study.

|  |                                |
|--|--------------------------------|
| <b>CURRICULUM</b>                                | 21 sem hrs.                    |
| ART101   | Two-Dimensional Design (3)     |
| ART106   | Drawing I (3)                  |
| ART107   | Drawing (3)                    |
| ART303   | Illustration I (3)             |
| ART393   | Illustration II (3)            |
| <i>Adv. Illustration Electives (Choose 2): 6</i> |                                |
| ART341   | Digital Drawing & Painting (3) |
| ART342   | Media & Techniques (3)         |
| ART346   | Graphic Novel Art & Design (3) |
| ART221   | Printmaking I (3)              |
| ART231   | Painting I (3)                 |
| ART409   | Human Anatomy (3)              |
| ART372   | Scientific Illustration (3-6)  |

## Introductory Applied Physics

The Minor in Introductory Applied Physics requires a grounding in algebra and trigonometry and provides introductory physics instruction followed by a selection of courses from a menu of physics topics including sound, nuclear energy, astronomy or light and color. Each course from the menu has a required laboratory and lecture component. Science students who are required to take introductory physics will find the minor suitable for a more focused study on topics introduced during the required physics sequence. Speech, language and hearing students may especially be interested in the Nature of Sound course.

### 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 18. |                                   |
| PHYS301   | The Nature of Sound (3)           |
| PHYS302   | The Nature of Light and Color (3) |
| PHYS303   | The Nature of Nuclear Energy (3)  |
| <b>TOTAL</b>  | <b>18 sem. hrs.</b>               |

## 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>                              | <b>21 sem. hrs.</b>          |

## 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, presentation, graphics, editing, policy and ethics.

### PREREQUISITES

None

### Curriculum:

Choose any six (6) journalism courses (JOUR) for a total of 18 semester hours. At least six semester hours in the minor must be upper division courses (300 level or above).

**TOTAL** 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)                          |
| LAS204              | US Interventions in Latin America (3)                    |
| LAS489              | The Maya Experience (3)                                  |
| LAS491              | Gender, Language, and Cultural Images 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>                                      |

## Leadership Studies

The interdisciplinary minor in Leadership Studies helps students develop fundamental skills, capacities, and knowledge necessary to assume leadership positions in public, private, and non-profit organizations. At least six semester hours in the minor must be upper division courses (300 level or above).

### PREREQUISITES:

None

### Curriculum:

|  |                                  |
|--|----------------------------------|
| A. Leadership Foundations: (3)           |                                  |
| LEAD202                                  | Intro. to Leadership Studies (3) |
| B. Presentational Skills - Choose 1: (3) |                                  |
| COMM107                                  | Public Speaking (3)              |
| COMM298                                  | Business & Prof. Comm (3)        |
| COMM308                                  | Leadership Comm. (3)             |
| COMM311                                  | Argumentation & Debate (3)       |
| PR298                                    | Business & Prof. Comm. (3)       |

- C. Interpersonal/Group Skills - Choose 1: (3)
- |         |                             |
|---------|-----------------------------|
| COMM125 | Comm & Social Influence (3) |
| COMM325 | Interpersonal Comm. (3)     |
| COMM290 | Intro to Conflict Mgmt (3)  |
| COMM440 | Small Group Discussion (3)  |
| MILS101 | Intro to ROTC (1)           |
| MILS102 | Intro to Leadership (1)     |
| MILS201 | Self/Team Development (2)   |
| PSYC390 | Social Psychology (3)       |
- D. Organizational Change Skills - Choose 1: (3)
- |          |                               |
|----------|-------------------------------|
| COMM 230 | Organizational Comm (3)       |
| COMM 485 | Crisis Management (3)         |
| EDUC 210 | Leadership and Change (3)     |
| EDUC 220 | Women and Leadership (3)      |
| HPE 252  | Ldrshp in Recreation Mgmt (3) |
| POLI 306 | Public Administration I (3)   |
| POLI 307 | Public Administration II (3)  |
| PSYC 360 | Indust/Org. Psychology (3)    |
| SOC 347  | Class, Work, and Society (3)  |
- E. Community Engagement Skills - Choose 1: (3)
- |          |                                  |
|----------|----------------------------------|
| COMM 455 | Political Communication (3)      |
| HIST 315 | History of Women in the U.S. (3) |
| HIST 401 | Contemp Nat'l/Int'l Issues (3)   |
| HIST 405 | Mod. Afr. Civil Rights Mvmt (3)  |
| POLI 325 | Effective Political Action (3)   |
| SOC 367  | Social Movements (3)             |
- F. Critical Thinking Skills - Choose 1: (3)
- |          |                                  |
|----------|----------------------------------|
| COMM 416 | Persuasion & Propaganda (3)      |
| PHIL 200 | Intro to Philosophy & Values (3) |
| PHIL 205 | Critical Thinking (3)            |
| PHIL 240 | Intro Contemp Moral Issues (3)   |
| PHIL 265 | Business Ethics (3)              |
| PHIL 327 | Beginning Logic (3)              |
| PHIL 346 | Environmental Ethics (3)         |
| PHIL 361 | Ethics & Health (3)              |
| PSYC 110 | Critical Thinking in Psych (3)   |

## Manufacturing Engineering Technology

The Minor in Manufacturing Engineering Technology (MMET) integrates knowledge from areas of study such as science, math, computers, mechanical engineering and electronics. MMET instills proficiency in developing tools, processes, machines and equipment to make quality products at a reasonable cost. The minor also involves working with and coordinating people from several other fields. In addition to providing a background in the fundamentals of manufacturing engineering technology, the program places an emphasis in the application of computer systems to modern manufacturing. This may include topics such as engineering materials, computer-aided design (CAD), programmable logic controllers (PLC), and computer-aided manufacturing (CAM).

### PREREQUISITES

MATH 106 Trigonometry (or MATH 107), or permission of instructor, is required before taking MFGT 225.

### CURRICULUM

|                    |                                   |
|--------------------|-----------------------------------|
| ENGR 201           | Engineering Graphics (3)          |
| MFGT100            | Manufacturing Processes (4)       |
| MFGT225            | Statics/Strength of Materials (3) |
| MFGT302            | Computer Aided Drafting I (3)     |
| MFGT300+           | Manufacturing Elective (6)        |
| TOTAL 19 sem. hrs. |                                   |

## 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 MATH or STAT course numbered 270 or above (except MATH403 and MATH404). |                                       |
| TOTAL 18 sem. hrs.  |                                       |

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 270 or above (except MATH403 or MATH 404) , in place of each exempted course.

## Music

### PREREQUISITES

None

### CURRICULUM

|   |                       |
|---|-----------------------|
| A. Theory MUSC201 Fundamentals of Music                                     | 3 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     |
| MUSC343   | Evolution of Jazz,    |
| D. Electives  | 3 sem. hrs.           |
| Any MUSC course or combination of courses                                   |                       |
| TOTAL 18 sem. hrs.  |                       |
| At least two courses (6 credits) must be upper level (300 level or higher)  |                       |

## 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                             |                |
| TOTAL 21 sem. hrs.                        |                |

## Personal Financial Planning

The minor in personal financial planning 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 Minor in Personal Financial Planning is a CFP Board Registered Program. Students graduating with the minor and a bachelor's degree are eligible to take the CFP Exam.

### PREREQUISITES

MATH 104 or higher or permission of the instructor.

### CURRICULUM

|         |   |
|---------|---|
| PF360   | Personal Financial Planning (3)               |
| FIN400  | Financial Investment Analysis (3)             |
| ACCT330 | Federal Income Tax (3)                        |
| PF430   | Retirement Planning and Employee Benefits (3) |
| PF440   | Estate Planning (3)                           |
| PF475   | Financial Plan Development (3)                |
|         | <b>TOTAL</b> 18 sem. hrs.                     |

## Philosophy

The philosophy minor is designed to introduce the student to philosophical theory and practice, past and present. The teacher is a model of philosophical practice. The variety of courses offered give the student an opportunity to sample philosophical approaches to logic, knowledge, wisdom, death and dying, sex and love, metaphysics, social-political philosophy, popular culture issues, and ethics.

### CURRICULUM

- Required Introductory Course  
PHIL200 or Introduction to Philosophy and Values (3)  
PHIL240 Introduction to Moral Issues
- Philosophy Electives  
Any five (5) philosophy courses;  
two must be at 300 level or above 15 sem. hrs.

*The following courses count as philosophy electives for this minor:*

|          |   |
|----------|---|
| FYE10602 | Ethical and Cultural Issues in Harry Potter (3) |
| FYE10605 | Morality, Faith, and the Meaning of Life (3)    |

*If both PHIL200 and PHIL240 are taken, the minor is satisfied by passing any other four (4) philosophy courses.*

**TOTAL** 18 sem. hrs.

## Photography

### PREREQUISITES

Art Major

### CURRICULUM

- 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)     |
  - Any ART (Art) or ARHI (Art History) course(s) with the exception of ART100 Intro to Art. 6 sem. hrs.
- TOTAL** 21 sem. hrs.

## Physics

The Minor in Physics requires a rigorous introduction in mathematics and introductory calculus based physics followed by Modern Physics and two courses in experimental laboratory work. The minor is most suitable for students who have strong math and analytical reasoning skills and want to acquire a firm grasp of the laws of nature.

Chemistry majors that take the calculus based physics sequence need only take one additional course to complete the minor requirements. The skill sets learned in a physics minor are broad and transferable to a wide array of occupations and enhances the student's problem solving skills and marketability.

### PREREQUISITES

PHYS150, or permission of instructor, is required for PHYS 320

### CURRICULUM

#### Required Courses

|         |                                       |
|---------|---------------------------------------|
| MATH211 | Analytic Geometry and Calculus I (4)  |
| MATH212 | Analytic Geometry and Calculus II (4) |
| 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)    |
|         | <b>TOTAL</b> 21 sem. hrs.             |

## Political Science

Students who minor in political science receive a thorough introduction to the major principles and dynamics of politics— that is, the gathering and use of power by individuals, groups, and governments within and across societies. In addition, political science minors have the freedom to take specialized upper-level political science courses in an area of particular interest. A minor in political science is a useful and marketable addition to the education of students in any major.

### 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.                   |
| *6 credits must be upper level courses |                                |
| <b>TOTAL</b>                           | 18 sem. hrs.                   |

## Pre-Law

The pre-law minor provides students with a broad, timely, and liberal-arts-based introduction to law and legal systems and the impact of law on modern society. Beyond satisfying a general interest in the law, the minor benefits students of any degree program interested in pursuing a law-related career. Students may satisfy the minor's requirements by taking courses in political science, business administration, criminal justice, communication studies, personal financial planning, philosophy, and psychology.

The pre-law minor is part of a broad array of pre-law and legal studies-focused programming at Edinboro University. For more information, please consult "Preparing for Law School" within the History, Politics, Languages and Cultures Department section of this catalogue.

**MINOR REQUIREMENTS**

- A. Required courses: 12 sem. hrs.  
 POL1 101 Introduction to American Politics  
 ECON 220 Principles of Microeconomics  
 POL1 343 Law and Legal Systems  
 BUAD 260 Business Law I
- B. Elective courses: 9 sem. hrs.  
 Take nine (9) semester hours from among the following courses:  
 POLI311 Political Freedom and Individual Rights  
 POLI463 Civil Liberties  
 POLI465 Constitutional Law  
 POLI550 International Law  
 CRIM/POLI360 Practicum in Courtroom Advocacy\*  
 (maximum three credit hours for minor)  
 CRIM/POLI469 Criminal Procedure and Evidence  
 BUAD365 Business Law II  
 COMM360 Freedom of Speech\*  
 CRIM 265 Intro to Courts, Criminal Law, and Criminal Procedure\*  
 CRIM462 Pennsylvania Criminal Code\*  
 PFP440 Estate Planning\*  
 PHIL327 Beginning Logic  
 PSYC 355 Psychology and Law\*

TOTAL: 21 sem. hrs.

\*Courses with prerequisite(s) beyond POLI 101 and/or POLI 343; consult the University catalog

**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.

**Professional Writing**

The Professional Writing Minor will prepare students to write in business and professional settings while providing experience in the full range of writing genres. The minor offers advanced instruction in writing and editing, coupled with options for further development in specific professional areas of the student's choosing.

**CURRICULUM**

- A. Core Courses 6 sem hrs.  
 ENGL203 Creative Writing (3)  
 ENGL206 Advanced Composition (3)
- B. Editing Course 3 sem. hrs.  
 ENGL 308 Literary Editing Practicum (3)
- C. Intermediate Writing Courses 6 sem. hrs.  
 Choose two from:  
 ENGL305 Technical Writing (3)  
 ENGL312 Essay Workshop (3)  
 ENGL370 Business Writing (3)
- D. Interdisciplinary Courses 6 sem hrs.  
 Choose two from:  
 CSC1123 Introduction to Website Dev. (3)  
 JOUR226 Digital Media Design (3)  
 PR360 Writing for Public Relations (3)  
 PR390 Writing for Advertising (3)
- E. Advanced Writing Course 3 sem. hrs.  
 Choose one from:  
 ENGL410 Advanced Technical Writing (3)  
 ENGL443 Advanced Cr. Nonfiction (3)  
 ENGL450 Internship in Writing (3)
- TOTAL 24 sem. hrs.

**Psychology**

Given the many ways Psychology relates to other disciplines, the minor in Psychology is very flexible and the most popular minor on campus. Students can choose the Psychology courses that best match their personal and career interests.

**PREREQUISITES**

None

**CURRICULUM**

Choose any 6 psychology courses (courses with a PSYC prefix) to total at least 18 semester hours. At least 6 credits must be 300-level or higher. Most PSYC courses have PSYC 101 as a prerequisite.

TOTAL 18 sem. hrs.

**Public Relations Branding and Imaging**

The minor in Public Relations Branding and Imaging combines effective messaging strategies with basic digital media production techniques. Students will develop marketable skill sets by producing media portfolios and projects that integrate applied print, audio, video, graphical, and web-based technologies. The purposed minor would be attractive to students in many majors, but would be especially valuable to students studying business, communication studies and related fields. At least six semester hours in the minor must be upper division courses (300 level or above).

**CURRICULUM**

- JOUR209 Media Aesthetics (3)  
 PR265 Intro to Public Relations (3)  
 PR298 Business and Professional Communication (3)  
 JOUR340 Media and Audience (3)  
 PR360 OR Writing for Public Relations (3)  
 PR390 Writing for Advertising (3)  
 Plus one JOUR/PR Elective (3)  
 Student selects one 400- or 500-level program elective
- TOTAL 18 sem. hrs.

## Religious Studies

The Religious Studies minor is designed to help prepare a student for seminary or for graduate work in religious studies. The core requirements ground the student in philosophical, historical, and sociological approaches to religious study. The electives allow the students to diversify their understanding of religion through coursework options in art, English, history, sociology, and philosophy.

### 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 (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:   |  |              |
| PHIL310  | Eastern Philosophy (3)                   |              |
| PHIL313  | African Philosophy (3)                   |              |
|  | TOTAL                                    | 18 sem. hrs. |

## 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 I (3)     |              |
| Any 300 level Sculpture Course (3)       |                              |              |
|  | TOTAL                        | 21 sem. hrs. |

## Social Work

The social work minor will provide students with an overview of the social work field, including its professional values, ethics, and theoretical foundation. Students will take courses focusing on the history of social work and social welfare, human diversity, theories of human behavior, and social welfare policy. The social work minor will encourage students to explore social work as a complementary field to other related areas, such as psychology, sociology, and criminal justice.

### A. Required Courses (15)

|         |                             |
|---------|-----------------------------|
| SOWK100 | Introduction to Social Work |
| SOWK115 | Human Diversity             |
| SOWK205 | HBSE                        |
| SOWK250 | Intro Social Welfare Policy |
| SOWK310 | Social Work Practice I      |

### B. Elective Courses (3) - Select one of the following:

|         |                        |
|---------|------------------------|
| SOWK300 | Social Welfare Policy  |
| SOWK375 | Medical Social Work    |
| SOWK380 | Child Welfare          |
| SOWK390 | Aging & Human Services |
| SOWK395 | Soc Wrk Prac/Ment Hlth |

## Sociology

A Minor in Sociology gives students a deeper understanding of many aspects of social life. Academic and applied sociological research guides the exploration of a variety of social institutions involving health care, social services, corrections, the family, economy, politics and many more. Classes examining relevant social issues including race, ethnicity, class, gender, age, disability, family dynamics, and social justice can empower students to transform their own lives as well as the lives of those around them. Through this highly customizable minor, students can obtain qualitative and quantitative research-based knowledge and applied skills which support their chosen field of study and enhance personal and professional opportunities. This makes the Sociology Minor the perfect complement to any EU degree.

### PREREQUISITES

Introduction to Sociology (SOC 100) is a prerequisite for all sociology courses and is included in the requirement

### CURRICULUM

Choose any six (6) Sociology courses (Including Soc 100) to total 18 semester hours. At least two (2) of the six (6) courses must be at the upper level (300 level or higher).

TOTAL 18 sem. hrs.

## Spanish

### PREREQUISITES

None

### CURRICULUM

Any courses with a SPAN prefix count toward the 18 credit hours and 6 credits must be upper level courses to complete the minor in Spanish.

TOTAL 18 sem. hrs.

## Special Education

The Special Education minor provides students with important information on individuals with disabilities and strategies for working with these individuals. It will prepare you to work with individuals with a wide range of disabilities, including emotional, behavioral, learning, intellectual, sensory, and physical impairments. The minor can be coordinated with virtually any academic discipline.

### PREREQUISITES

PSYC101 Introduction to Psychology

**CURRICULUM**

## Required Courses

|          |  |                     |
|----------|--|---------------------|
| SPED210  | Introduction to Exceptionalities/<br>Special Education |                     |
| SPED240  | Managing Inclusive Learning<br>Environments            |                     |
| SPED320  | High Incidence Disabilities                            |                     |
| SPED340  | Low Incidence Disabilities                             |                     |
| SPED335  | Behavior Supports                                      |                     |
| SPED 370 | Adaptations/Accommodations in<br>Inclusive Settings    |                     |
|          | <b>TOTAL</b>   | <b>18 sem. hrs.</b> |

**Trauma Informed Teaching Practices**

The purpose of this minor is to reform current practices by incorporating an educational program that enhances novice teachers understanding of student mental health issues present in the classroom, particularly students experiencing child traumatic stress. The minor will develop novice teacher trauma training in classrooms, provide educational strategies to support students experiencing child traumatic stress, and foster self-efficacy in supporting this group of students.

**CURRICULUM**

|                    |                             |                     |
|--------------------|-----------------------------|---------------------|
| PSYC317            | Developmental Psychology    |                     |
| SPED240            | Managing Inclusive Learning |                     |
| SPED335            | Behavior Support            |                     |
| SPED410            | Behavior Interventions      |                     |
| MLED350 or SEDU350 |                             |                     |
| MLED360 or SEDU360 |                             |                     |
|                    | <b>TOTAL</b>                | <b>18 sem. hrs.</b> |

**Weather and Climate**

The minor in Weather and Climate provides an overview of the processes that control both past and present-day weather and climate. It is designed for students who are pursuing careers in fields such as environmental science, environmental policy, journalism, and communication, where a knowledge of the factors that influence weather and climate will prove to be beneficial professionally or simply for those students who wish to become better consumers of the weather and climate information they are exposed to on a daily basis.

**PREREQUISITES**

\*MATH104 or higher and any Core 7 course.

**CURRICULUM:**

|                                 |                             |                     |
|---------------------------------|-----------------------------|---------------------|
| A. Required courses:            |                             | 12 sem. hrs.        |
| GEOS303*                        | Climate Science             |                     |
| GEOS320                         | Meteorology I               |                     |
| GEOS321                         | Meteorology II              |                     |
| GEOS403                         | Topics in Climate Science   |                     |
| B. Select 2 from the following: |                             | 6 sem. hrs.         |
| GEOS112                         | Principles of Earth History |                     |
| GEOG145                         | Environmental Issues        |                     |
| GEOS302                         | Our Hazardous Planet        |                     |
| GEOS310                         | Intro to Oceanography       |                     |
| GEOG320                         | Physical Geography          |                     |
|                                 | <b>TOTAL</b>                | <b>18 sem. hrs.</b> |

**Women's Studies**

The interdisciplinary Women's Studies Minor enables students to examine the causes and effects of the condition of women around the world and to explore issues and questions related to the advancement of women.

**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                     |                     |
| COMM325                                       | Interpersonal Communications*               |                     |
| COMM680                                       | Gender and Communications                   |                     |
| EDUC220                                       | Women and Leadership                        |                     |
| ENGL213                                       | The Language of the Goddess                 |                     |
| ENGL311                                       | Literature by Women                         |                     |
| 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*       |                     |
| HIST351                                       | Women and Crime *                           |                     |
| HIST415                                       | History of African-American Women*          |                     |
| HIST476                                       | Women and War*                              |                     |
| HIST515                                       | History of Feminism in Action*              |                     |
| MUSC247                                       | Music, Gender and Identity                  |                     |
| NUHL100                                       | Contemporary Women's Health                 |                     |
| POL375  | Reproductive Politics *                     |                     |
| PSYC305                                       | Close Relationships and Human<br>Sexuality* |                     |
| SOC325  | Sociology of Gender*                        |                     |
| SOC340  | Sociology of Marriage and the<br>Family*    |                     |
| WMST360                                       | Philosophy and Feminism*                    |                     |
|   | <b>TOTAL</b>                                | <b>18 sem. hrs.</b> |

\*Courses with prerequisite(s); consult the University catalog

**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<br>exception of ART100 Intro to Art |                             | 6 sem. hrs.         |
|  | <b>TOTAL</b>                | <b>21 sem. hrs.</b> |

## Associate Degree Programs

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 Criminal Justice, Anthropology and Forensic Studies

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 Applied Science – Applied Technology –

Aeronautical Science

Associate of Applied Science – Applied Technology –

Electric Utilities 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 Reading

Associate of Science Degree – Preschool Education

# 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 -

### ACCOUNTING

#### 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.

#### ACCT221 ACCOUNTING INFORMATION ANALYSIS 3 sem. hrs

This course will train students to create a system of computerized journals, ledgers, and sub-ledgers for entering business transactions, assets, liabilities, equity accounts, revenues, expenses, plus dividends or withdrawals of capital, for all types of businesses including for profit and not for profit. The business accounting information system used in this course will create financial statements and allow for financial and managerial analysis of the entity's operations and financial position. This course is approved for General Education-Computer Competency. 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 and either ACCT221 or CSCI104.

#### 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: 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: ACCT215 or PFP360.

#### 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: ACCT330.

#### 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: ACCT320.

#### 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: 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: ACCT400.

**ACCT480 ADVANCED TOPICS IN ACCOUNTING AND AUDITING 1-6 sem. hrs.**  
This course will focus on topics in accounting (2credits); federal taxation, professional ethics, and business law (1credit); general business (1 credit); and/or auditing (2credits) suitable for advanced students. A culmination of learning experiences in the subject area necessary for accounting professionals, with a strong emphasis placed upon the CPA (Certified Public Accountant) exam in the financial accounting, auditing, tax, and regulatory areas. An integrative, practice-based project in the area(s) of study will be required. Students may study from one to four topics in the course. Prerequisites: **ACCT400, ACCT420, and permission of the instructor.**

**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: **ACCT320.**

**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: **ACCT320.**

## AERONAUTICS

**AERO120 INTRODUCTION TO UNMANNED AERIAL VEHICLES 3 sem. hrs.**  
An introduction to unmanned aerial vehicles (UAVs), commonly known as drones, as well as the FAA regulations, operations, weather, safety and airspace knowledge required to obtain the FAA part 107 license necessary to operate a UAV for commercial use.

**AERO220 PRIVATE PILOT GROUND 3 sem hrs.**  
This course prepares the student for the FAA Private Pilot Airplane written examination for the private pilot license. This course will introduce pilot training, aviation opportunities, human factors in aviation, aircraft systems, aerodynamic principles, and the flight environment, aeronautical decision making, and FARs (Federal Aviation Regulations) applicable to private pilot flying.

**AERO240 INSTRUMENT PILOT GROUND 3 sem hrs.**  
This course prepares the student for the FAA Instrument Pilot Airplane written examination for the instrument pilot rating. This course will educate the student about the principles of instrument flight. This will include the operation, use, and limitations of flight instruments and instrument navigation systems. The air traffic control system functions and the use of instrument flight charts for IFR planning and flight will also be covered. Emphasis will be placed on advanced human factors and physiological factors directly related to instrument flight. In addition, the student will become familiar with the Federal Aviation Regulations (FARs) applicable to instrument flight operations. Prerequisite: **AERO220**

**AERO260 COMMERCIAL PILOT GROUND 3 sem hrs.**  
This course prepares the student for the FAA Commercial Pilot Airplane written examination for the commercial pilot license. This course will review airports, airspace, flight information, and meteorology, as well as airplane performance, VFR cross-country planning, and navigation. In addition, the student will gain a greater understanding of aviation physiology, aeronautical decision making, and the FARs applicable to commercial pilot operations. Operation of complex aircraft systems, how to predict aircraft performance and advanced aerodynamics will also be covered. Prerequisite: **AERO 240**

**AERO280 CERTIFIED FLIGHT INSTRUCTOR GROUND 3 sem. hrs.**  
This course prepares the student for the FAA fundamentals of instruction and flight instructor, airplane airmen knowledge examinations. This course will provide the student with instructional knowledge, skill, and the aeronautical knowledge necessary to meet the requirements of a certified flight instructor certificate with an Airplane—Single-Engine Class rating. The student will demonstrate through knowledge assessments and appropriate records that he/she meets the instructional knowledge necessary to obtain a certified flight instructor certificate with an airplane-single-engine class rating. Prerequisites: **AERO260**

**AERO320 PRIVATE PILOT FLIGHT 3 sem hrs.**  
This course prepares the student for the FAA Private Pilot Airplane practical examination for the private pilot license. This course will provide the student with the knowledge, skill, and aeronautical experience necessary to meet the requirements for a private pilot airplane license. The student will demonstrate through knowledge tests, flight tests, and appropriate records that he/she meets the knowledge, skill, and experience requirements necessary to obtain a private pilot license.

**AERO340 INSTRUMENT PILOT FLIGHT 2 sem hrs.**  
This course will provide the student with the knowledge, skill, and aeronautical experience necessary to meet the requirements for an instrument rating. The student will demonstrate through knowledge tests, flight tests, and appropriate records that he/she meets the knowledge, skill, and experience requirements necessary to obtain an instrument rating. Prerequisite: **AERO 320**

**AERO360 COMMERCIAL PILOT FLIGHT 4 sem hrs.**  
This course will provide the student with the knowledge, skill, and aeronautical experience necessary to meet the requirements for a commercial airplane pilot license. The student will demonstrate through knowledge tests, flight tests, and appropriate records that he/she meets the knowledge, skill, and experience requirements necessary to obtain a commercial pilot license. Prerequisite: **AERO 340**

**AERO380 CERTIFIED FLIGHT INSTRUCTOR FLIGHT 3 sem. hrs.**  
This course prepares the student for the FAA fundamentals of instruction and flight instructor, airplane airmen knowledge and practical examinations. This course will provide the student with instructional knowledge, skill, and the aeronautical experience necessary to meet the requirements of a certified flight instructor certificate with an airplane—single-engine class rating. The student will demonstrate through knowledge tests, flight tests, and appropriate records that he/she meets the instructional knowledge, skill, and experience necessary to obtain a certified flight instructor certificate with an airplane—single-engine class rating. Prerequisites: **AERO360**

## ANTHROPOLOGY

### 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.

### 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: ANTH180, **sophomore standing or permission of the 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: ANTH180, **sophomore standing or permission of the 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. This course is approved for General Education – Distribution 2. Prerequisite: **Sophomore standing or permission of instructor.**

### 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. This course is approved for General Education – Distribution 2. Prerequisite: **Sophomore standing or permission of instructor.**

### 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: ANTH180, **sophomore standing or permission of the instructor.**

### ANTH369 FORENSIC ARCHAEOLOGY 3 sem. hrs.

This course examines the principles and methodologies of Forensic Archaeology. Students will gain a comprehensive knowledge of the practical and theoretical archaeological skills that are required to work a crime scene. Lectures and mock outdoor crime scenes will be used to understand the documentation and recovery of physical evidence-including human remains- from a variety of outdoor contexts, with the intent of presenting evidence in court. Students will evaluate current topics and debates within the forensic archaeological literature. This course is approved for General Education-Distribution 2- Social and Behavioral Sciences. Prerequisite: ANTH 180 OR ANTH 310 OR FORS 100 OR CRIM 272 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. This course is approved for General Education – Distribution 2. Prerequisite: ANTH180, **sophomore standing or permission of the instructor.**

### 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: **ANTH180, sophomore standing or permission of the 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. This course is approved for General Education – Distribution 2. Prerequisite: **ANTH180, sophomore standing or permission of the instructor.**

**ANTH375 CULTURAL  
ANTHROPOLOGY**  
**3 sem. hrs.**

This course explores the cross-cultural study of human cultural life and its meaning. The course examines what anthropologists do and how they do it. The course covers a broad range of topics including language, race, gender, kinship, social structure, politics, and religion. This course will provide students with a better understanding of worldwide diversity, unity, cooperation and conflict. This course is approved for General Education-Distribution 2- Social and Behavioral Sciences. Prerequisite: **ANTH 180 or sophomore standing or permission of instructor.**

**ANTH376 BIBLICAL  
ARCHAEOLOGY**  
**3 sem. hrs.**

Biblical archaeology is the intersection of two very different disciplines (religious studies and archaeology) in the study of the ancient Middle East, home to three of the world's major religions. This course will explore the material culture of this region with particular focus on the period from the early Canaanite city-states to the early Islamic empire (3000 BC - 640 AD). We will discuss the political, religious, and academic issues that have emerged over the course of more than a century of research. The course examines archaeological evidence and what bearing it has on biblical and historical narratives. This course is approved for General Education - Distribution 2. Prerequisites: **one of any of the following courses - ANTH180, ANTH371, ANTH379, HIST334, HIST101, or GEOG130.**

**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: **ANTH180, sophomore standing or permission of the 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. This course is approved for General Education – Distribution 2. Prerequisite: **ANTH180, sophomore standing or permission of the instructor.**

**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. This course is approved for General Education – Distribution 2. Prerequisite: **ANTH180, sophomore standing or permission of the instructor.**

**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 or ANTH385 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, and ENGL 102 or ENGL 104**

**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.**

**ANTH410 ANTHROPOLOGICAL THEORY AND METHOD 3 sem hrs.**

Anthropology is the discipline that investigates what it means to be human by studying human interactions, language, biology, and the material record of the human past. Theories determine the types of questions disciplines ask and help researchers determine what is important. The focus of this class is on contemporary anthropological theories and the methods that anthropologists use to study and interpret human behavior. Prerequisites: **ANTH180**

**ANTH465 BROKEN BONES: FORENSIC ANALYSIS OF TRAUMA 3 sem. hrs.**

Using data drawn from human remains and archaeological excavation, the course will investigate the evidence for warfare, domestic violence, homicide, ritualized forms of violence, cannibalism, and human sacrifice. The goal will be to not only learn how to read the record of violence on human remains, but to also understand how violence is related to environmental change, subsistence, gender, or ideological factors. Prerequisite: **ANTH 310 Introduction to Forensic Anthropology or BIOL 313 Human Physiology and Anatomy II** or **permission of instructor.**

**ANTH490- 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. Prerequisites: **ANTH180** 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** or **permission of the instructor.**

**APPLIED TECHNICAL LEADERSHIP****ATL 450 APPLIED TECHNICAL LEADERSHIP 3 sem. hrs.**

The course will integrate the tools and concepts from the specialization courses and applied life experiences to develop an entrepreneurial leadership capstone project. This capstone will have the students develop a comprehensive, customer-validated project model and create an investor/stakeholder pitch for the plan. With this course, students experience a sampling of the ideas and techniques explored in the bachelor's degree in applied technology. Prerequisite: **MFGT 201, FIN300, MKTG300, and COMM308, or permission of instructor.**

**ART****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 awareness of the problems of 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. Approved for Computer Competency.

**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. **Prerequisite: ART 106.**

**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 history, theory, elements and principles, concept development, research, and continued exploration in professional software. Assignments will stimulate the application of creative thinking to solve problems in graphic design. **Prerequisites: ART258**

**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**

**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.**

**ART311 SCULPTURE FIGURE MODELING 3 sem hrs.**

This course provides a comprehensive visual study of the three-dimensional human form. Students will work in wax, oil, or water-based clay to create representational, figurative sculptures from direct observation of live models in the studio. The focus of this class will be on building observational and hand modeling skills rather than producing finished works. **Prerequisites: ART106 and ART 107 or permission of instructor.**

**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.**

**ART314 STEEL FABRICATION 3 sem. hrs.**

This course explores traditional and contemporary steel fabrication techniques to create sculptural objects. Instruction will focus on electric arc and gas welding as well as cutting, forming, and finishing. Other steel fabrication methods will be surveyed. **Prerequisites: ART211, ART216, ART226, or ART236; 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 301 ART 305**

**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 WEB DESIGN 3 sem. hrs.**

This course is an introduction to the front-end design and development of websites. Students will design, develop, and launch web pages using the current web languages of HTML5 and CSS3, and industry-standard applications. The web design process will include information architecture and wireframes, prototyping, content gathering, user testing, visual design, and development. This course will introduce visual design considerations including user interface design (UI), user experience (UX), usability, layout/positioning methods, image optimization, web typography, and responsive design systems. Prerequisites: **ART305**

**ART327 CORPORATE IDENTITY  
3 sem. hrs.**

This course expands students' 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: **ART316 or ART326**.

**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**.

**ART333 SOCIALLY ENGAGED  
ART (SEA) 3 sem. hrs.**

This course introduces students to artmaking focused on the aesthetics and functionality of human engagement. Unlike the tradition of creating physical or digital products, Socially Engaged Art (SEA) places its highest value on process. SEA practitioners often invoke a goal of social and/or political change via interventions within existing systems, especially through collaboration with community members, stakeholders, organizations or institutions. Prerequisites: **Sophomore standing and any ARHI Course**.

**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 "plein 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**

**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**.

**ART346 GRAPHIC NOVEL ART  
AND DESIGN 3 sem hrs.**

This course defines the process of designing the graphic novel for sequential artists. This class is primarily about tools of the trade and the structuring of the graphics, focusing on observational and interpretive drawing skills as they apply to visual storytelling. Prerequisites: **ART 101, 102, 103, 105, and 107. \*Also recommended: ENGL 203, 313.**

**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.**

**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: **ART303**

**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 267, ART 268, ART 367 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**

**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 MOTION DESIGN 3 sem. hrs.**

This course introduces the fundamental concepts for motion graphics, focusing on the choreography of typography and imagery within time-based media. Students will be introduced to the motion design process of developing motion graphics utilizing motion-based computer graphic applications, sequences, and techniques. Students will form relevant and creative concepts, visual styles, narratives, and final deliverables to communicate a message and cultivate meaning. Topics explored include motion design theory and process, real-world applications, kinetic typography, motion history, animation techniques, software demonstrations and challenges, audio/visual integration, motion infographics, and the interactivity of motion in different contexts. Prerequisites: **ART305**

**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: **ART316 Typography II**

**ART432 PUBLICATION 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 PRACTICUM 3 sem. hrs.**

This capstone-level course integrates interactive design theories and techniques into a real-world application. With the professor acting as resident art director and mentor, students will gain experience with clients and design projects from regional non-profit agencies as well as campus offices and organizations. Comprehensive projects will include project briefs, research, understanding user needs, assessments and planning, project budget and specifications, prototyping, client meetings, presentations, branding and visual design, and studio development. Through developing professional interactive design solutions, students will continue their proficiency and growth in industry-standard programming languages and applications. Students will collaborate in teams to research, ideate, test, design, and develop content-driven solutions. Projects are contingent upon the client's needs but will primarily focus on web and motion design. Prerequisites: **ART326 or ART340**

**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 Motion Design**

**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**.

**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 & Interactive 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**       **3-6 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**.

**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.**

**ART EDUCATION****ARED283 DIGITAL CULTURE IN THE ARTS 3 sem. hrs.**

An investigation into visual culture and emerging technologies in the arts. Topics include cultural critique, communication technology, digital production, electronic media, and portfolio development. Participation involves study of and artistic production with digital media through social networking, contemporary theory, critical analysis, and creative expression. Prerequisite: **ENGL102 or ENGL104.**

**ARED314 THEORY AND PRACTICE IN THE ARTS 3 sem. hrs.****ARED315 CURRICULUM AND PROGRAM DEVELOPMENT IN THE ARTS EDUCATION 3 sem. hrs.**

An assembly of elements necessary for curriculum and programs in the arts. Topics include program and curriculum development, planning, implementation, instruction, and assessment. In preparation for working with people of all ages, attention will be given to artistic development theories, psychological developmental theories, special needs accommodation and adaptation, motivation, assessment techniques for individuals and programs in the arts, as well as arts infusion and integration. Prerequisite: **ARED314**

**ARED316 PROFESSIONAL STANDARDS IN THE ARTS 3 sem. hrs.**

An orientation for professional practices in the arts. Topics include licensing, ethics, best practices, work place skills, professional development, and leadership for schools, clinics, and community settings. In preparation for work in the field, attention will be given to personal management, collaboration, and reflection on professional participation. Prerequisite: **Art majors only.**

**ARED420 MEDIA AND MATERIALS IN ART THERAPY 3 sem. hrs.**

This course addresses non-verbal and verbal communications by examining symbolic representation. The course will explore therapeutic aspects of a range of art media and the use of art in the process of therapy. The capacity to gain self-awareness and understanding of others is explored and related to the student's professional and clinical development. Prerequisite: **Candidacy, ARED310, ARED410**

**ARED425 THE ARTS AND INCLUSION 3 sem. hrs.**

An overview of working in the arts with special education students. Topics include human growth and development in the arts, artistic process and product, adaptations and accommodations, as well as identification and assessment of students with disabling conditions. Attention will be given to needs of persons with exceptionalities, to compliance with legal requirements, and to access resources and support. Prerequisite: **ARED314**

**ARED475 FIELD EXPERIENCE II 3 sem. hrs.**

This course prepares students for teaching and internships in the arts. Field experience includes observation and practice working in mentored situations in the arts with opportunities for professional growth and development. Topics include applied presentation and leadership skills, environmental factors, planning and preparation, and professional practices. Prerequisites: **ARED315**

**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.

## ART HISTORY

### 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 artistic cultures outside of the western tradition: Islam, Sub-Saharan Africa, India, China, Japan, and Mesoamerica. Each culture will be examined with an emphasis on major works of architecture, sculpture, painting, and crafts. Important historic, religious, and intercultural developments will be examined, along with the strong artistic connections between some of these cultures. This course is approved for General Education-Core 2.

### 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. 1895) 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.

### ARHI323 ART OF THE 20TH CENTURY (GROUP I) 3 sem. hrs.

A survey of fine art, craft and design with special emphasis on significant artists, issues, and movements of the twentieth century. Prerequisites: ARHI105 and ENGL102 or ENGL 104, or permission of instructor.

### ARHI324 THE ART OF THE 19TH 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.

### 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.

This course will survey the artistic achievements of Italian and Northern European artists working between 1400 and 1550, during the period known as the Renaissance. Students will explore the major examples of art and architecture, and develop an understanding of the historical contexts that served as a backdrop to the works of the most important artists. Prerequisite: ARHI105

### 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.

### 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.

### 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.

### 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.

### 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.

### 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**.

**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**.

**- B -**

**BIOLOGY**

**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. 2 hours lecture and 2 hours 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. 2 hours lecture and 2 hours 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; with 3 hours lecture and 3 hours laboratory. This course is approved for General Education - Core 7.

**BIOL151 HERBS AND SPICES  
1 sem. hrs.**

This course will provide a survey of topics on the chemistry and biology of herbs and spices used in food, cosmetics and medicine. The course is intended to provide students with broad overview of the natural product science and the uses of these products for the well-being of individuals.

**BIOL155 PRINCIPLES OF  
BIOLOGY II 4 sem. hrs.**

This course introduces students to the principles of biology, primarily at the organismal to ecosystem levels. It emphasizes basic concepts associated with botany, zoology, behavior, and ecology. Lecture and laboratory. Prerequisites: **C- or better in BIOL 150. Only open to health science biology majors or by consent of instructors.**

**BIO200 INTRODUCTION TO BIOETHICS 3 sem. hrs**

This course introduces students pursuing health professions to the theoretical foundations of bioethics, including the most influential schools of moral philosophy, and their practical implications in life sciences. Students will learn about various aspects of professional ethics such as the ethical issues that arise from conflicting professional roles and responsibilities. In addition, this course entails more in-depth discussions of the practical aspects of bioethics such as euthanasia, abortion, universal insurance coverage, and biomedical research ethics. This course is approved for General Education Core 6: Ethics.

**BIO210 ALLIED HEALTH HUMAN BIOLOGY 3 sem. hrs.**

This course covers the basics of human anatomy, physiology, and genetics. Students are expected to use critical thinking skills to engage in class discussions on biological issues of concern for allied health professionals. This course is designed to meet the human biology prerequisites for Masters in Social Work students. This course is approved for General Education- Core 7.

**BIO219 BIOMEDICAL TERMINOLOGY AND USAGE 3 sem hrs.**

Biomedical Terminology and Usage is a course designed to provide students in the pre-health sciences and interested in a career in biomedical sciences with an opportunity to learn relevant terminology in the areas of medicine, microbiology, immunology, genetics, and cell/molecular biology. The course will examine the most common terms used in these fields of study and allow the students an opportunity to use the terms to successfully communicate complex scientific and medical concepts. Prerequisite: **BIO100 or higher or permission of instructor.**

**BIO230 BOTANY 4 sem. hrs.**

This course is a continuation of BIO150 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: **BIO150 or equivalent with a C or better.** This course is approved for General Education – Distribution 3.

**BIO240 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: **BIO150 or equivalent with a C grade or better.** This course is approved for General Education – Distribution 3.

**BIO230 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. Lecture and laboratory. Prerequisites: **CHEM 140 or higher and a C grade or better in BIO150 or permission of the instructor.**

**BIO230 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; with 2 hours lecture and 2 hours laboratory. Prerequisite: **BIO240 or permission of the instructor.** 2 hours lecture, 3 hours lab.

**BIO230 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. Lecture only. Prerequisite: **BIO101, 102, or 150 or permission of the instructor** This course is approved for General Education – Distribution 3.

**BIO230 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; with 3 hours lecture and 3 hours laboratory. Prerequisites: **BIO150 and CHEM141 or CHEM241 or permission of the instructor.**

**BIO230 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. Prerequisites: **CHEM141 or CHEM241 or equivalent, plus either BIO150 or both BIO312 and BIO313 or permission of the instructor.**

**BIO230 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; with 2 hours lecture, 3 hours lab. Prerequisite: **BIO240 or permission of the instructor.**

**BIO230 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 (BIO230) not having any prerequisites, but itself being prerequisite for the second (BIO231). Open to medical technology, nursing and health sciences majors or by consent of instructor; with lab. 3 hours lecture, 3 hours lab.

**BIO230 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. Open to medical technology, nuclear medicine technology, nursing, pre-physician's assistant, pre-physical therapy and pre-chiropractic majors or by consent of instructor; not available for credit to biology majors. Prerequisite: **BIO231 or permission of the instructor.** 3 hours lecture, 3 hours lab.

**BIO230 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; with 2 hours lecture, 4 hours laboratory. Prerequisites: **BIO150 or both BIO312 and BIO313 or permission of instructor.**



**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. Lecture and laboratory. Prerequisite: **BIOL230 and BIOL240 or permission of the instructor.**

**BIOL330 FERMENTATION MICROBIOLOGY** 3 sem. hrs.  
This course covers the basics of the microbiology of common commercially important fermented foods and beverages. The student builds on the basic knowledge of microbiology and learn about the various microbes and their products that are associated with foods and beverages. Prerequisite: **BIOL308 Microbiology or permission of the instructor.**

**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. Only offered in the Spring Semester. Prerequisite: **BIOL 230, BIOL240 and CHEM141 or CHEM 241; or permission of the instructor.**

**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 and lectures. Prerequisite: **BIOL 230 and BIOL240 or permission of the instructor.**

**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, 3 hours lab. Prerequisite: **BIOL 230 and BIOL240 or permission of the instructor.**

**BIOL395 INTERNSHIP IN BIOLOGY** 1-4 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 Sciences and Dean.**

**BIOL400 ECOLOGY** 4 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. Offered only in the Fall or Summer semesters. Prerequisite: **BIOL 230 and BIOL240 or permission of the instructor.**

**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: **BIOL230, and BIOL240 or BIOL 155; and BIOL300 or permission of the instructor.**

**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 ; with 3 hours lecture and 3 hours lab. Only offered in the Spring semester. Prerequisites: **BIOL300 or BIOL305, or permission of the instructor.**

**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: **BIOL 230 and BIOL240 or permission of the instructor.**

**BIOL440 ICHTHYOLOGY** 3 sem hrs.  
This course studies the taxonomy, ecology, anatomy, physiology, behavior, breeding habits, and growth and development of fishes. A taxonomic and evolutionary approach examines both the diversity and the relationships existing among the major groups of fishes. Laboratory emphasizes fishes of the area. The 3 hour laboratory each week emphasizes fishes of the area. Prerequisites: **a C or better in BIOL230 and BIOL240 or permission of 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: **BIOL 230 and BIOL240 or permission of the instructor.**

**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. Only offered in the Spring semester. Prerequisite: **BIOL 230 and BIOL240 or permission of the instructor.**

**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: **BIOL230 and BIOL240 or permission of the instructor.**

**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: **BIOL230, BIOL240, and STAT260 or STAT350; or permission of the instructor.**

**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: **BIOL230 and BIOL240 or permission of instructor.**

**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. Prerequisites: **BIOL230 and BIOL240 or permission of instructor.**

**BIOL482 BEHAVIORAL ECOLOGY****4 sem hrs.**

Behavior is studied from an evolutionary and ecological perspective. Current models of foraging, mating and social behavior are evaluated through lecture, readings, observations and experiments; with 3 hours lecture, 3 hours lab. Prerequisite: **BIOL230 and BIOL240 or permission of instructor.**

**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: Approval of the Department of Biology and Health Sciences Dean.

**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 phyla. Prerequisite: **BIOL230 and BIOL240 or permission of instructor.**

**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: **BIOL230 and BIOL240 or permission of instructor.**

**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: **BIOL230 and BIOL240 or permission of instructor.**

**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: **BIOL230 and BIOL240 or permission of instructor.**

**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. Only offered in the Fall semester. Prerequisite: **BIOL230 and BIOL240 or permission of instructor.**

**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: **BIOL308 or BIOL318 or permission of instructor.**

**BIOL597, 598, 599 SPECIAL TOPICS IN 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: **BIOL230 and BIOL240 or permission of instructor.**

**BUSINESS ADMINISTRATION****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.

**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.

**BUAD310 GLOBAL ENVIRONMENT OF BUSINESS**

This course will introduce students to fundamental concepts and practices related to international business. Students will learn how national economic, political, and cultural differences, trade policies, and institutions impact businesses that operate globally. Foreign direct investment, the international monetary system, and import/export issues will be explored. The impact of global operations on the fundamental areas of accounting, finance, human resource management, production and logistics will also be discussed. Prerequisite: **ECON225**

**BUAD320 INTRODUCTION TO ENTERPRISE SYSTEMS****3 sem. hrs.**

This course demonstrates that enterprise systems (ES) are comprised of computer hardware and software, business processes and people. It also provides an introduction to the components of management information systems (MIS) and investigates why enterprise systems are a necessity for business success and growth. Students are introduced to business scenarios such as procurement, fulfillment, production and integrated business processes, including hands-on exercises using SAP. This experiential learning of enterprise resource planning (ERP) concepts, principles and functions are transferrable to other enterprise systems, such as Oracle, Salesforce, Workday, etc. Business ethics is included in case-like situations. Prerequisites: **ACCT215**

**BUAD328 HISTORY OF INTERNATIONAL TRADE****3 sem. hrs.**

This course will introduce students to the history of international trade. This course studies how factors such as geography, climate, culture, and politics both facilitate and restrict trade and trade patterns. From this course, students will develop an understanding of how human impulse, just like the needs for food, shelter, companionship, and prestige, impacts international trade and the development of religions, politics, and culture throughout history. This course is approved for General Education-Distribution 2- Social and Behavioral Sciences. Prerequisite: **ENGL 102 or ENGL104.**

**BUAD350 DEVELOPING AN ENTREPRENEURIAL MINDSET 3 sem. hrs.**

This course immerses students in the process of entrepreneurship and the fundamental aspects of developing an entrepreneurial mindset. Underlying the course is the belief that developing an entrepreneurial mindset is a critical component of any new venture's success. Given its experiential and application format, this course is particularly suited for those students who aspire to launch a new business venture. Prerequisite or co-requisite: Junior-level Standing

**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: **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: **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: **BUAD320, FIN300, MKTG300, BUAD160, QUAN340, 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.

**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.

- C -

## CHEMISTRY

**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 ELEMENTARY CHEMISTRY 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.

**CHEM151 HERBS AND SPICES 1 sem. hrs.**

This course will provide a survey of topics on the chemistry and biology of herbs and spices used in food, cosmetics and medicine. The course is intended to provide students with broad overview of the natural product science and the uses of these products for the well-being of individuals.

**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.

**CHEM216 INTRODUCTION TO FERMENTED FOODS CHEMISTRY 3 sem. hrs.**

From a chemical perspective, students will study the use of alcoholic and lactic acid fermentation in preparing foods and beverages. Production of alcoholic and non-alcoholic beverages, baking, as well as fermentation of dairy, produce, grain and meat products will be covered. Sensory and physical properties of the fermentation products will be discussed. Prerequisites: **CHEM 115 or permission of instructor.**

**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 or ENGL104.** This course is approved for General Education - Distribution 3.

**CHEM240 PRINCIPLES OF CHEMISTRY I 4 sem. hrs.**

Principles of Chemistry 1 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.

**CHEM320 FERMENTATION ANALYSIS 3 sem. hrs.**

This course will examine analytical methods and instrumentation for the identification of chemical compounds, ions, and molecules found throughout the process of fermented commercial goods. Particular attention will be focused on the methodology for identification and proper treatment of problematic compounds found in the production of such goods. The purpose of this course is to provide an introductory analytical background for fermentation. Prerequisite: **CHEM 241 or permission from instructor.**

**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: **CHEM241 or permission of the instructor.** 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.**

**CHEM351 NATURAL PRODUCTS CHEMISTRY 3 sem. hrs.**

This course provides a comprehensive overview of secondary metabolites found in nature, particularly in plants. The chemistry and biochemistry behind important classes of compounds will be covered. The biological relevance of the various natural products will be discussed. Students that complete this class will examine natural products and determine their classifications, importance and possible sources. Prerequisites: **CHEM341 Biochemistry.** This course is approved for General Education – Distribution 3.

**CHEM352 TOXICOLOGY 3 sem. hrs.**

This course will explore the basic principles of toxicology, absorption, distribution, metabolism and elimination of toxicants. Also included will be mechanisms of biotransformations, target organ toxicity, the toxicity of a limited group of compounds, and carcinogenesis. Some current molecular methods used in toxicology will also be covered. Emphasis will be placed on the adverse effects and interactions of natural products and their metabolites. This course is intended to build upon biochemical and organic chemistry knowledge and provide a comprehensive introduction to toxicology. Prerequisites: **CHEM341 Biochemistry or instructor permission.** This course is approved for General Education – Distribution 3.

**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.**

**CHEM425 FERMENTATION CHEMISTRY 4 sem. hrs.**

This course will provide students with a biochemical understanding of the natural process of fermentation in its many forms, including but not limited to brewing (beer/cider), vinification, fermented foods, and chemical synthesis. The course will focus heavily on applied fermentation in the laboratory setting, supplemented with a theoretical and historical perspective on the development of fermentation. This course is the capstone in the Fermentation Science program. Prerequisite: **CHEM 320 or permission from instructor. Student must be 21 years old in order to participate in the course.**

**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**.

**CHEM451 ISOLATION AND CHARACTERIZATION OF NATURAL PRODUCTS 2 sem. hrs.**

This course will provide a comprehensive overview and hands-on exposure to established and current methods of isolation and purification of natural products for the purpose of identifying the ingredients that give plants their bioactivity. The course will provide students the essential skills to carry out the analytical procedures of extraction, isolation and implementation of widely-used methods and instruments. Prerequisites: **CHEM351-Natural Products Chemistry**. This course is approved for General Education – Distribution 3.

**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.**

This course 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 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**.

**CHEM496 INTERNSHIP IN CHEMISTRY-FERMENTATION 1-3 sem. hrs.**

This internship will provide industrial and practical experience as related to food and beverage fermentation applications. Students will work off campus in local breweries, food production laboratories, or other such positions. Students are required to give a presentation to the Chemistry faculty following the internship. The internship must be approved prior to participation. Internship sites may have age, physical, and mobility requirements that will need to be satisfied; consult program coordinator for specific site requirements. Prerequisite: **CHEM 320 or permission of instructor**.

**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**.

## COMMUNICATION SCIENCES AND DISORDERS

### CSD125 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.

### CSD205 EXPLORATION IN HEALTH PROFESSIONS AND INTERPROFESSIONAL PRACTICES 3 sem hrs.

This course introduces students to health care systems in the United States and health-related professions. Students will be introduced to health care terminology, continuum of health care services, scopes of practice of health care professions, and interprofessional practices. Prerequisite: **PSYC 101, BIOL 101, or equivalent**. This course is approved for General Education – Distribution 2.

### CSD210 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.

### CSD220 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.

### CSD230 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.

### CSD300 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.

### CSD320 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: CSD375. Students with credit earned in SHLD325 may not take this course.

### CSD331 COMMUNICATION OPTIONS FOR INDIVIDUALS WITH HEARING LOSS 3 sem. hrs.

This course will discuss language and communication for individuals who are D/deaf or hard of hearing. Students will learn the multiple communication options (oral versus sign system) available for individuals with limited to no hearing, the influence of culture on the communication preference and implications for language and literacy development. Current research on outcome of each modality will be discussed. Prerequisites: ECED 150 or CSD 300.

### CSD340 ADVANCED LANGUAGE DEVELOPMENT AND ANALYSIS 3 sem. hrs.

This course explores the characteristics of normal language development of the school age and adolescent child. Issues of normal language-based literacy (reading, writing, spelling) development are explored, as are language analysis techniques. Prerequisite: CSD 125 and CSD 300. This course is approved for General Education - Distribution 2.

### CSD350 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: CSD 355.

### CSD355 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.

### CSD365 COMPUTER TECHNOLOGY APPLICATIONS SPEECH-LANGUAGE APTHOLOGY/AUDIOLOGY 3 sem. hrs.

This course emphasizes the application of basic and discipline-specific computer hardware and software. Prerequisite: CSD210 and CSD300.

### CSD375 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.

### CSD420 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: CSD320 and CSD340.

### CSD500 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: CSD355.

### CSD515 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: CSD230.

**CSD520 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.

**CSD530 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.

**COMMUNICATION STUDIES****COMM100 HUMAN COMMUNICATION AND MODERN SOCIETY 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.

**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 INFLUENCE 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.

**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.

**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.

**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.

**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. Students may only take one of the following: COMM298, JOUR298 or PR298.

**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. 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.

**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.

**COMM325 INTERPERSONAL COMMUNICATION****3 sem hrs.**

This course provides an advanced understanding of interpersonal communication theories, processes, functions and contexts. Attention will be given to the initiation, development, maintenance, repair, networking in, and disengagement from a variety of interpersonal relationships such as families, friendships, romantic partners, and workplace relationships. This course is valuable to professionals in fields such as communication consulting, counseling, social work and health care. Prerequisite: **COMM107**

**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.. Prerequisite: **COMM107 Public Speaking, or COMM213 Introduction to Performance Studies, or THEA203 Fundamentals of Acting.**

**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. Prerequisite: **COMM107 Public Speaking, or COMM213 Introduction to Performance Studies, or THEA203 Fundamentals of Acting.**

**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.. Prerequisite: Sophomore standing.

**COMM340 CONFLICT, POWER AND COMMUNICATION****3 sem. hrs.**

Aspects of interpersonal, group and organizational power relations are studied in relation to processes of conflict mediation and resolution. Emphasis is placed on early recognition of unhealthy conflict, accurate diagnosis of its causes, and the development of effective communication-based intervention strategies. Students review current theories of conflict resolution and develop mediation competencies in learning groups and role simulations. Prerequisite: **Sophomore standing.** This course is approved for General Education Distribution 1.

**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.

**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.**

**COMM440 SMALL GROUP COMMUNICATION****3 sem. hrs.**

This course examines the theory and practice of small group communication, with a focus on developing productive interaction in teams, meetings, negotiations, and other group settings. Students take up issues of consensus-building, group leadership and effective decision-making through communication practices. Prerequisite: **COMM 107.**

**COMM450 RHETORICAL THEORY & CRITICISM 3 sem. hrs.**

This course surveys selected theories of rhetoric from the classical to the postmodern, and examines methods for the critical analysis of discourse and texts of various genres. Prerequisite: **COMM440 or Junior Standing.**

**COMM455 POLITICAL COMMUNICATION****3 sem. hrs.**

This course examines theory, research, and applications related to political communication, studying the persuasive process of political campaigning, the role of the media, considerations for candidates, and image creation. Prerequisite: **COMM 416 or Junior Standing.**

**COMM465 MANAGING CONFLICT****3 sem. hrs.**

This course addresses problems of managing conflict in interpersonal, group and institutional contexts. Students learn theories of conflict and strategies for negotiation and mediation. The course takes up social and psychological factors on conflict, conflict management styles, anger management practices, assertive behavior, attitude adjustment, and meanings of peace. Prerequisites: **COMM290, COMM340, and enrolled in Conflict Minor.**



**COMM475 INTERCULTURAL  
CONFLICT AND  
COMMUNICATION****3 sem. hrs.**

This course focuses on conflict in institutional and organizational contexts between persons and groups with varying histories, ethnicities, interests, and needs. Emphasis is on developing and promoting recognition, respect, and understanding of others in the faces of differences, asymmetrical power relations, and perceived threats in order to promote productive working relationships. Prerequisite: **COMM220 or consent of instructor.**

**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**

**COMM485 CRISIS MANAGEMENT****3 sem. hrs.**

The purpose of the course is to develop a conceptual understanding of the process of communication and crisis management for application in institutional and organizational contexts. Students explore issues of planning, development, and execution of crisis management plans including risk assessment, media relationships, image restoration, and crisis response strategies. Prerequisite: **COMM 230 or PR 265 or permission of instructor.**

**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****3-15 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  
COMMUNICATION****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: **JOUR264 or Permission of Instructor.**

**COMPUTER SCIENCE****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). 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. Prerequisites: **MATH090 or placement into MATH104 or higher and placement into ENGL101 or higher.** This course is approved for General Education – Computer Competency. Permission of OAS 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. 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. Prerequisites: **MATH090 or placement into MATH104 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. Prerequisite: **MATH090 or placement into MATH104 or higher and placement into ENGL101 or higher.**

**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: **C- or better in CSCI125.** 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 CSCI 130. Topics include user-defined data types, data structures including lists, stacks and queues, several sorting and searching algorithms, pointers, an introduction to object-oriented programming, and recursion. Prerequisites: **C- or better in CSCI 125 and CSCI 130**. This course is approved for General Education Distribution 3, Natural Science and Mathematics.

**CSCI277 INTRODUCTION TO CYBERSECURITY****3 sem. hrs.**

This course is designed to provide a broad overview of the field of cybersecurity. Through labs and lectures students will be exposed to a variety of security concepts as well as several security vulnerabilities. Prerequisites: **enrollment in or completion of CSCI230, C- or better in CSCI 130 and CSCI 125**.

**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: **C- or better in CSCI130 or CSCI207**.

**CSCI302 INTRO TO HUMAN COMPUTER INTERACTION****3 sem. hrs.**

This course surveys human-computer interaction concepts, theory, and practice, focusing on its interdisciplinary nature. Human needs and capabilities as well as technological opportunities in the design of interactive systems are examined. The process of designing user interfaces, both from the perspective of design activities and the evaluation of user interface designs are examined, including user requirements gathering, with emphasis on usability goals; user analysis; user task analysis; design, rapid prototyping, and user-centered formative evaluation. Prerequisites: **C- or better in CSCI230**.

**CSCI311 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. Prerequisite: **C- or better in CSCI 230**.

**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. Prerequisites **C- or better in CSCI230**.

**CSCI313 DATA BASE MANAGEMENT SYSTEMS****3 sem. hrs.**

This course presents the concepts and features of software systems known as database management systems and their relationship to information system applications. Topics include storage structures, database definition, design, implementation, maintenance, retrieval, concurrency control, security and recovery. Note: Students may not take both CSCI 213 and CSCI 313 to fulfill degree requirements. Prerequisite: **C- or better in CSCI 230**.

**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: **C- or better in 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: **C- or better in 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 language programming assignments directed to develop competence in the concepts and language. Prerequisite: **C- or better in CSCI 230**.

**CSCI340 GAME PROGRAMMING****3 sem. hrs.**

This course is designed to familiarize the student with the programming tasks involved in developing computer games using a game engine. Topics include: 2D games, 3D games, sound, game objects, game worlds, characters, and basic AI. A game development environment will be employed by individual students and teams of students to implement working games. Students will employ an underlying programming language to extend the behavior of the game engine. Prerequisite: **CSCI330, MATH275**. Must earn a "C-" or better in all prerequisite courses.

**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: **C- or better in 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 employing a Graphics Processing Unit (GPU). Prerequisites: **C- or better in CSCI230 and MATH 275**.

**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: **C- or better in CSCI230**.

**CSCI374 MOBILE APPLICATION DEVELOPMENT 3 sem. hrs.**

This course introduces students to mobile application design and development while utilizing Software Development Kits (SDKs) to develop mobile applications. Students will learn user interface design in combination with event driven programming. An overview of required programming languages and SDK tools will be covered along with object-oriented development, source code control and testing. Prerequisites: **C- or better in CSCI313 and CSCI 330.**

**CSCI377 SOFTWARE SECURITY 3 sem. hrs.**

This course focuses on the security of a computer system, by considering the security of the software components that it is made of and the data that is stored and managed by the system. Emphasis will be placed on vulnerabilities as it pertains to the phases of software development, including requirements analysis, design, implementation, testing, deployment, maintenance and retirement. Prerequisites: **C- or better in CSCI 330.**

**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: **C- or better in CSCI330.**

**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: **C- or better in 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: **C- or better in 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: **C- or better in CSCI330.**

**CSCI403 OPEN SOURCE PROJECTS 1 sem. hrs.**

This course introduces students to open source projects. The course will explore tools used in open source projects, evaluation of open source projects, and effective participation in an open source project. Special attention will be given to humanitarian projects. Prerequisite: **C- or better in CSCI230.**

**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: **C- or better in CSCI330.**

**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: **C- or better in CSCI330, 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: **C- or better in MATH270 and CSCI312.**

**CSCI419 CRYPTOGRAPHY AND DATA SECURITY 3 sem. hrs.**

This course provides students with knowledge of cryptography and its applications to information and security. Students will study various algorithms of cryptography and will create programs based on cryptographic algorithms. Topics will include ciphers, encryption standards, public-key cryptography, private-key cryptography, digital signatures, hash functions, and cryptanalysis. Note: students may not receive credit for both MATH419 and CSCI419. Prerequisites: **C- or better in MATH270 and CSCI330.**

**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: **C- or better in 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: **C- or better in CSCI311 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 analyses, intermediate code generation, optimization and target code generation. Topics are presented from an implementation viewpoint. Students will construct a compiler for a small language using standard compiler generation tools. Prerequisite: **C- or better in CSCI 330 and MATH 270.**

**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 gaming. Emphasis will be placed on the fundamentals of both the artistic and technical perspectives of game design. Prerequisite: **C- or better in CSCI340 and MATH211.**

**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. Prerequisite: **C- or better in CSCI312 and MATH270.**

**CSCI477 NETWORK SECURITY****3 sem. hrs.**

This course focuses on the connections between components within a larger system, and considers the security of these connections. The security of both physical and logical connections will be explored. Through extensive labs, students will be exposed to a variety of connection and transmission attacks that plague network systems. Prerequisites: **C- or better in CSCI425 and CSCI475.**

**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: **At least 18 hours of computer science courses including CSCI312. Must earn a grade of "C-" or better in all prerequisite course(s).**

**CSCI485 CAPSTONE 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 design and implement a computer game contemporary software development practices. Prerequisite: CSCI340, STAT300, ENGL203, and CSCI408 or CSCI440. Must earn a "C-" or better in all prerequisite courses.

**CSCI487 CYBERSECURITY POLICIES AND ISSUES****3 sem. hrs.**

This course focuses on protecting individuals' data and privacy in the context of society, organizations (i.e., as employees) and personal life, in addition to the study of human behavior as it relates to cybersecurity. Through extensive labs and group work, this course provides a culminating experience to the students that focuses on protecting organizations from cybersecurity threats and managing risk to support successful accomplishment of the organization's mission. Prerequisites: **C- or better in CSCI477.**

**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.

**CRIMINAL JUSTICE****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 CORRECTIONS IN AMERICA****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 with a "C-" grade or better.**

**CRIM230 POLICE AND SOCIETY****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 with a "C-" grade or better.**

**CRIM265 COURTS AND CRIMINAL LAW****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 with a "C-" grade or better.**

**CRIM272 CRIMINOLOGY****3 sem. hrs.**

This course is an introduction to the sociological study of crime. One focus will be on the nature, incidence, prevalence and extent of crime in American society. Additionally, this course will familiarize students with the issues surrounding concepts of crime, criminals, crime typologies, and societal responses to crime. Students will examine the theoretical, methodological, and policy issues in criminology and criminal justice. The goal is to enhance students' critical thinking about the nature, causes, and consequences of crime and criminal behavior and the various social policies proposed or enacted to reduce criminal offending and victimization. Prerequisites: **CRIM100 with a "C-" grade or better.**

**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 with a "C-" grade or better.**

**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., Takuza, 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 with a "C" grade or better** or permission of the instructor.

**CRIM360 PRACTICUM IN COURTROOM****ADVOCACY 3-9 sem. hrs.**

This practicum in courtroom advocacy will introduce students to the rules of evidence, courtroom practice and procedure, and the trial process. Each student will participate in simulated trial exercises and will be required to demonstrate the ability to extract the essence of legal issues, present concise and well-reasoned arguments in support of their positions, and make effective legal presentations. Students may take the course for three (3) credit hours up to three (3) times for a maximum of nine (9) credit hours. Prerequisite: **Sophomore standing; POLI 101 or CRIM 100; or permission of 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 with a "C" grade or better** 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 with a "C" grade or better.**

**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. Student must have earned 60 credits, with at least 16 of those credits taken at Edinboro University, including a minimum of 15 credits in criminal justice courses. The applicant must have a minimum overall grade point average of 2.3 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 Department of Political Science and Criminal Justice. Prerequisite: **CRIM295 with a grade of "C" or better.**

**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 with a "C" grade or better** 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 with a "C" grade or better** 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 with a "C" grade or better** 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 firesetters. 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 with a "C" grade or better** 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 with a "C" grade or better in all prerequisite courses. 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 with a "C" grade or better** 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 with a “C” grade or better.**

**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 with a “C” grade or better in all prerequisite courses.**

**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 with a “C” grade or better** 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 with a “C” grade or better in all prerequisite courses.**

**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: **CRIM295 with a “C-” grade or better.**

**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) with a “C” grade or better in all prerequisite classes; 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: **CRIM475 with a “C-” grade or better.**

**- D -****DATA SCIENCE****DSCI101 INTRODUCTION TO DATA  
SCIENCE****3 sem. hrs.**

This course introduces students to the basics concepts involved with acquiring, cleaning, documenting, and performing basic analysis on large datasets. Concentrating on practical problems, students will employ office productivity software, with an emphasis on spreadsheet software, to complete a semester long project involving data science. **This course meets the Computer Skills requirement of General Education.**

**DSCI102 DATA ANALYTICS  
PRIMER****1 sem. hrs.**

This course introduces students to the basic concepts involved with acquiring, cleaning, documenting, and performing basic analysis on large datasets. Concentrating on practical problems, students will employ office productivity software, with an emphasis on spreadsheet software, to complete a semester long project involving data science. This course is intended for people who have completed computer skills and have an interest in data analytics. Prerequisites: **credit for computer competency.**

**DSCI201 ADVANCED  
SPREADSHEETS**

This course provides an in depth study of the application of spreadsheet software for problem solving and data analysis. Students will work individually and collaboratively to solve problems in various domains and to analyze large datasets. Emphasis will be placed on documenting and presenting solutions. This course is approved for General Education-Distribution 3-Natural Science and Mathematics .Prerequisite: **DSCI 101 or CSCI 104 and Math 105. . Must have earned a C- or better in all prerequisite courses.**

**DSCI210 APPLIED SCIENTIFIC  
PROGRAMMING I****3 sem. hrs.**

This course presents an introduction to simple programming and scripting using a high-level language. It integrates techniques of algorithm design and development, programming style, testing, debugging, and applications. Topics will also include flow control, basic input and output, basic data types, functions, loops, lists, and basic mathematical and statistical functions. This course is approved for General Education-Distribution 3 Natural Science and Mathematics .Prerequisite: **CSCI 104 or DSCI 101 and placement into Math 105 or higher. Must have earned a C- or better in all prerequisite courses.**

**DSCI301    ADVANCED DATA  
SCIENCE TOOLS**

This course introduces students to high-level statistical programming using tools common to data science. Topics include exploratory analysis; using software for statistical modeling; importing, cleaning, and analyzing large data sets; and programming using statistical software. Prerequisites: **STAT 260 or higher and either DSCI 210 or CSCI 130. Must have earned a C- or better in all prerequisite courses.**

**DSCI310    APPLIED SCIENTIFIC  
PROGRAMMING II**

This course is the sequel to DSCI 210. Concepts include deploying and importing libraries in selected environments and language facilities for importing, manipulating, and storing large data sets. Topics will also include dictionaries, classes, data collection and visualizations, and regular expressions. Thinking computationally will be emphasized throughout, and students will be required to develop one or more larger-scale projects from start to finish. Prerequisite: **DSCI 210 with a C- or better.**

**DSCI460    APPLIED MACHINE  
LEARNING**

This course presents machine learning from a practical perspective. The course will cover issues in prediction and a variety of common algorithms. Students will use a high-level programming language to build and test predictive models based on data. Topics will include in and out of sample error, regression, discriminant analysis, classification and regression trees, boosting, support vector machines, unsupervised learning, and feature selection. Prerequisites: **STAT 360, MATH 275, and DSCI 301. Must have earned a C- or better in all prerequisites courses.**

**DSCI490    DATA SCIENCE  
CAPSTONE**

This course provides practical experience applying the tools and techniques of data science in an area of interest to the student. Students will work on significant data science problems selected in consultation with the professor, which will include one individual and one in teams. Students will engage in the entire process of solving a data science project, from collecting and cleaning data, performing exploratory analysis, applying appropriate analytical methods, and communicating results in a clear and comprehensible way. In addition to the projects, students will discuss the role, responsibilities and ethics of data scientists in various settings. Prerequisite: **DSCI 460 and DSCI 310. Must have earned a C- or better in all prerequisite courses.**

**- E -****EARLY CHILDHOOD  
EDUCATION****ECED120    INTRODUCTION 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  
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 studies to collect and analyze data as they explore the theoretical foundations of child development. This course includes 10 hours of observation for Level I field experiences Prerequisite: **PSYC 101**

**ECED200    PLANNING, DESIGNING  
AND MANAGING THE  
EARLY CHILDHOOD  
LEARNING  
ENVIRONMENT    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    ACTIVE APPROACHES  
TO EARLY  
DEVELOPMENT AND  
LEARNING    3 sem hrs.**

This course focuses on the multiple influences on development and learning of children, birth to age 5 years. Pre-service teachers will design instruction based on the characteristics of this age group, play theory and research supporting other active approaches. Students will collect observational data of children and then plan developmentally appropriate instruction and care to meet children's needs. This course includes both Stage I and II field experiences. **School of Education Clearances required**

**ECED240    TEACHING CHILDREN'S  
LITERATURE    3 sem hrs.**

This course provides students with a knowledge base of children's books, authors, and illustrators, including all genres of traditional and contemporary literature. Students participate in a variety of opportunities for active involvement in literary experiences and activities that integrate children's literature into the classroom and curriculum. **School of Education clearances required.**

**ECED241    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: **ECED120, 150, 200, 210, 244, and SPED210, and concurrent enrollment in the PK/K Block with Level III field experience.** Students who have taken ELED 341 may not take this course.

**ECED242    INTEGRATING 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 120, 150, 200, 210, 244, SPED210 and concurrent enrollment in the PK/K Block with Level III field.** Students who have taken ELED342 may not take this course.

**ECED243    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 120, 200, 210, 244, SPED210 and concurrent enrollment in PreK/K Block Level III field** Students with credit in ELED 310, 315 or 343 cannot take ECED243 for credit.

**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.

**ECED245 BUILDING PARTNERSHIPS/ CLINICAL EXPERIENCE PREK-K 3 sem hrs.**

This clinical experience with related seminars prepares students to work with young children and their families in a variety of preschool and kindergarten settings. Seminar content focuses on pedagogy, family influence, diversity and community partnerships. Students are responsible for the assessment, planning, instruction and classroom management of children under the supervision of a certified teacher. A minimum of 75 clinical hours of Level II field experience is required. Prerequisite: **This course is to be taken concurrently with ECED 241, ECED 242, and ECED 243.**

**ECED281 OBSERVATION, DOCUMENTATION/ ASSESSMENT IN ECE 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: **ECED, 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.

**ECED300 URBAN SEMINAR 3 sem. hrs.**

This course is designed to provide first-hand experience in an urban, multicultural setting where teacher education majors will have the 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 Clearances**

**ECED320 LITERACY FOUNDATIONS GR. 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 the PK/K Block with Level III**. This course requires 6 hours of level II field and concurrent enrollment in ECED 330. Candidates who have taken ELED370 may not take this course.

**ECED330 LANGUAGE ARTS GR. 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 the PK/K Block with Level III field**. This course requires 6 hours of level II field experiences and concurrent enrollment in ECED 320. 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: **ECED320 and 330, completion of the PK/K Block, and concurrent enrollment in the Primary Methods Block with level III field**. Students who have taken ELED 340 may not take this class.

**ECED345 ADVOCACY AND GUIDANCE: SUPPORTING POSTIVE 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 grades 1-4 classrooms. Prerequisites: **ECED320 and 330, completion of the PK/K Block, and concurrent enrollment in the Primary Methods 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: **ECED320 and 330, 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: **ECED320, 330 and PK/K Block and concurrent enrollment in the Primary/Methods Block with Level III field**.

**ECED375 CLASSROOM GUIDANCE/ CLINICAL EXPERIENCE GRADES 1-4 3 sem hrs**

This clinical experience with related seminars prepares students to work with young children in a variety of settings in grades one through four. Seminar content focuses on pedagogy, diversity and appropriate guidance techniques. Students are responsible for the assessment, planning, instruction and classroom management of children under the supervision of a certified teacher. A minimum of 75 clinical hours of Level III field experience is required. Prerequisites: **Candidacy required**. With concurrent enrollment in ECED 340, ECED 350 and ECED 360.



**ECED390 TECHNOLOGY  
INTEGRATION IN THE  
EARLY CHILDHOOD  
CLASSROOM 3 sem hrs.**

This course will prepare students to effectively integrate technology into the PreK-4 classroom. Students will examine the expectations of the 21st century learner as well as design and assess 21st century learning. In addition, students will examine various technology tools for classroom use. Successful completion of this course will allow students to apply for STEM endorsement through the Pennsylvania Department of Education. Prerequisite: **SEDU 183**.

**ECED480 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: **ECED320, completion of the PK/K Block and the Primary Methods Course Block with level III field experience**. Students who have taken ELED380 may not take this class.

**ECED495 STUDENT TEACHING  
6-12 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**.

## ECONOMICS

**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.

**ECON101 WEALTH BUILDING AND  
MONEY MANAGEMENT  
3 sem. hrs.**

This course provides the fundamentals of wealth building in America through an historical perspective. It also describes and explains important money management strategies. Core topics include case management, housing and automobile purchase strategies, debt management, individual tax planning, insurance, investment planning, retirement planning, and estate planning. This course is approved for General Education Core 3: American Civilizations.

**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: **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**.

**ECON340 GLOBALIZATION AND  
CHINA'S ECONOMIC AND  
BUSINESS  
DEVELOPMENT  
3 sem. hrs.**

This course takes a critical look at globalization and its impact on China – U.S. economic and business development. The course seeks to enhance a student's ability to analyze China's globalized economy and businesses. Students will travel to a financial center and/or other economic zones in China. Students will visit firms, markets, agricultural fields, agencies and/ or universities in China. They will also interact with Chinese entrepreneurs, business executives, university students and/or U.S. business executives in China. In addition, students will learn about China's economy, business models, and development under a globalization framework. Furthermore, they will explore Chinese culture and history. Prerequisite: **ECON225 or permission of the instructor**.

**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: **ECON225.**

**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. 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.**

**ECON391 FINANCIAL ECONOMICS**  
**3 sem. hrs.**

This course helps students develop an understanding of the financial markets from an economic perspective. Financial economics involves the examination of the roles of uncertainty, choice, and information in economic transactions. This course analyzes financial markets, valuation of assets, risks, and diversification. Economic tools and concepts will be developed to analyze financial assets and markets and the varied roles of key financial market participants. Prerequisite: **ECON 220, ECON 225, and MATH 105 or MATH 150, or permission of the instructor.**

**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, QUAN340 or STAT 360, and either ACCT 221 or CSCI104 or any discipline-specific computer competency course.**

**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 STAT360, and either ACCT 221 or CSCI104 or any discipline-specific computer competency course.**

**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.**

**EDUC DEAF/HARD OF HEARING****EDHH240 INTRODUCTION TO DEAF EDUCATION**  
**3 sem. hrs.**

This course provides an overview of the many responsibilities, roles, service options and competencies needed to educate children from birth to grade 12 who have a hearing loss. Historical views, foundational concepts and instructional environments are viewed from each level of hearing loss and age/grade range. Professional organizations and journals are introduced to support best research based practices in d/Deaf education. Prerequisite: **Education Majors or permission of instructor**

**EDHH350 LANGUAGE AND LITERACY SKILLS FOR STUDENTS WHO ARE DEAF/HARD OF HEARING**  
**3 sem. hrs.**

This course provides participants with language and literacy instruction and practice specifically adapted towards the needs of Deaf/Hard of hearing children. Language delays for children with hearing loss lead to extensive delays in reading and writing. Preservice teachers will design opportunities to increase overall language use regardless of modality and create direct literacy instruction aligned with language needs for children birth to grade 12 to be used in various settings. Best practices in literacy instruction and literacy pedagogy and dual language learning theories support a balanced reading and writing curriculum for children with limited auditory access. Literacy and writing curriculums as well as multi-modality strategies for children with hearing loss will also be discussed. Prerequisites: **EDHH 240, ECED 320, and ECED 330, Candidacy**

**EDHH420 STRATEGIES AND ASSESSMENTS FOR STUDENTS WHO ARE DEAF/HARD OF HEARING 3 sem. hrs.**

This advanced education course will provide pre-service teachers with the knowledge and skills needed to educate and assess children who are deaf and hard of hearing in a variety of settings from birth to grade 12. Teachers of the deaf encounter an array of service options and each requires a specialized set of strategies to adapt curriculum, engage learners, modify instructional materials and assess student understanding. As unique members of the IFSP/IEP teams, teachers of the deaf must establish and maintain collaborative relationships with community agencies and other professionals to meet the needs of diverse learners who are deaf or hard of hearing. Prerequisites: **EDHH 240 and Candidacy. Co-Requisite: EDHH 445**

**EDHH445 FIELD EXPERIENCE IN DEAF EDUCATION 3 sem. hrs.**

This course is designed to provide preservice teachers of the deaf with the opportunity to plan and implement instruction for deaf/hard of hearing learners in the school setting. The students enrolled in this clinical practicum acquire 30 hours of direct contact with deaf/hard of hearing learners. Prerequisites: **EDHH 240, EDHH 350 and Candidacy. Co-Requisite: EDHH 420**

**EDHH495 STUDENT TEACHING 6 sem. hrs.**

This culminating experience is coordinated and supervised by University faculty and provides opportunities for teacher candidates to display competency in teaching deaf and hard of hearing children, under the direct daily supervision of a qualified cooperating teacher of the deaf. This course is part of professional block and provides the Stage 4 Field Experience. Prerequisites: **Primary Methods Block and Candidacy.**

## EDUCATION

**EDUC210 LEADERSHIP AND CHANGE 3 sem. hrs.**

The goal of this course is to gain an understanding of the principles, themes, and patterns for implementing change. Tools, techniques, and strategies for leading effective change are presented while participants focus on key issues relevant to deepening understanding of the challenges and problems associated with initiating and implementing change. Leadership and Change bridges theory and practice to achieve group goals by motivating both self and others through a deeper understanding of the elements of learning and social contribution. Prerequisites: **ENGL101 and LEAD 202**

**EDUC220 WOMEN AND LEADERSHIP 3 sem. hrs.**

The goal of this course is to develop an understanding of women's leadership and women's ways of influencing organizations. The course examines the challenges and opportunities related to women's leadership development. Topics addressed include research on the influence of gender on leadership styles, traits, and effectiveness; effects of stereotypes, prejudice, and discrimination on women's under-representation in leadership; identity, and global dimensions of women's leadership; and strategies for social change. Prerequisite: **ENGL101 and LEAD202**

**EDUC441 FOUNDATIONS AND PHILOSOPHY OF STEM EDUCATION 3 sem hrs.**

This course provides an introduction to the foundations and nature of STEM (Science, Technology, Engineering, and Math) educational disciplines in the middle level and secondary school setting. Students will develop foundational understanding of the philosophy and importance of STEM education for 21st century citizens, focusing on the interdisciplinary nature of STEM fields and the applications of STEM to non-STEM fields. Students will explore the state recognized standards for science, technology, and mathematics and how these standards can be addressed through active, investigative, inquiry strategies in the classroom. This represents the first step for pre-service teachers wishing to obtain a STEM-endorsed PA teaching certificate. Pre-requisite: **Teacher Candidacy.**

**EDUC442 STEM INTEGRATED CURRICULUM AND ASSESSMENT 3 sem hrs.**

This course is designed to provide pre-service teachers with the knowledge and skills needed to facilitate the effective delivery and integration of STEM (Science, Technology, Engineering, and Math) fields in a learner-centered classroom. Cognition and innovation, as applied to the development and delivery of an interdisciplinary STEM curriculum, will be examined as students explore contemporary research in instructional practice and 21st century skills. Students will learn and develop alternative forms of assessment appropriate for the non-traditional, learner-centered classroom, as well as the delivery and integration of science, technology, engineering and mathematics into classroom activities and concepts. Prerequisite: **EDUC 441; Teacher Candidacy**

**EDUC443 STEM STRATEGIES AND INSTRUCTIONAL PRACTICES FOR MIDDLE & SECONDARY SCHOOLS 3 sem hrs.**

The purpose of this course is to provide an inquiry based experience to expose students to Inquiry as learning theory and to expose students to Problem-Based Learning as a bridge to instructional design. Additionally, students will engage in the completion of STEM (Science, Technology, Engineering and Math) activities and analyze the activities for the effectiveness at various grade levels. Finally, students will design a STEM based lesson using Understanding by Design (UbD) lesson planning, implement the project based activity with fellow students, and reflect on the effectiveness of the lesson. This will be one course of four that can be used to obtain a STEM endorsement for certified teachers from PDE. Prerequisite: **SEDU 441; Teacher Candidacy.**

**EDUC444 INTERNSHIP FOR STEM IN MIDDLE & SECONDARY SCHOOLS 3 sem. hrs.**

The purpose of this course is to provide students with the opportunity to apply STEM (Science, Technology, Engineering, and Math) related content and pedagogical knowledge, skills, and processes in a real world setting. To be completed as an assigned school or job-embedded internship, this course meets the PA requirement for a field experience at the appropriate developmental level and will be supervised by a qualified faculty member. This will be one course of four that can be used to obtain a STEM endorsement for certified teachers from PDE. Prerequisites: **EDUC 442; EDUC 443; Teacher Candidacy.**

## ELECTRIC UTILITY TECHNOLOGY

**EUT101 OVERHEAD LINE TECHNOLOGY I 5 sem hrs.**

This is the first semester course in sequence of four courses designed to give students applied experience in overhead line technology. Students will learn fundamental skills in operating, maintaining and repairing overhead line technology components associated with sub-transmission circuits, distribution substations, primary feeders, distribution transformers, secondary power systems, and customer connections. Students will participate in hands-on instructional assignments designed to instill necessary competence to understand how to safely effect repairs and maintenance of power distribution and transmission systems. Other topics, such as safety standards and best practices will be emphasized throughout the course. Prerequisites: None

**EUT102 OVERHEAD LINE TECHNOLOGY II****5 sem. hrs.**

This is the second semester course in a sequence of four courses designed to give students applied experience in overhead line technology. Students will learn fundamental skills in operating, maintaining and repairing overhead line technology components associated with sub-transmission circuits, distribution substations, primary feeders, distribution transformers, secondary power systems, and customer connections. Students will participate in hands-on instructional assignments designed to instill necessary competence to understand how to safely effect repairs and maintenance of power distribution and transmission systems. Other topics, such as safety standards and best practices will be emphasized throughout the course. Prerequisite: **EUT101**

**EUT203 OVERHEAD LINE TECHNOLOGY III****5 sem hrs.**

This is the third semester course in a sequence of four courses designed to give students applied experience in overhead line technology. Students will learn fundamental skills in operating, maintaining and repairing overhead line technology components associated with sub-transmission circuits, distribution substations, primary feeders, distribution transformers, secondary power systems, and customer connections. Students will participate in hands-on instructional assignments designed to instill necessary competence to understand how to safely effect repairs and maintenance of power distribution and transmission systems. Other topics, such as safety standards and best practices will be emphasized throughout the course. Prerequisite: **EUT102**

**EUT204 OVERHEAD LINE TECHNOLOGY IV****5 sem hrs.**

This is the fourth semester course in a sequence of four courses designed to give students applied experience in overhead line technology. Students will learn fundamental skills in operating, maintaining and repairing overhead line technology components associated with sub-transmission circuits, distribution substations, primary feeders, distribution transformers, secondary power systems, and customer connections. Students will participate in hands-on instructional assignments designed to instill necessary competence to understand how to safely effect repairs and maintenance of power distribution and transmission systems. Other topics, such as safety standards and best practices will be emphasized throughout the course. Prerequisite: **EUT203**

**EUT290 POWER DISTRIBUTION & TRANSMISSION 3 sem hrs.**

Students will apply scientific theory associated with sub-transmission circuits, distribution substations, primary feeders, distribution transformers, secondary power systems, and customer connections. Students will participate in classroom and laboratory assignments designed to cultivate the basic technical skills necessary to understand power distribution and transmission systems. Other topics, such as safety and the use of relevant electrical formulas and calculations will be emphasized throughout the course. Prerequisites: **MATH105, PHYS311**

**ENGINEERING****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**.

**ENGLISH****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.

**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 RESEARCH WRITING 3 sem. hrs.**

This course introduces students to the conventions of academic research writing. By practicing effective print and electronic research techniques; constructing accurate in-text and bibliographic citations; and employing document and formatting principles consistent with a discipline-specific citation style, students will produce research proposals, annotated bibliographies, and fully documented research papers relevant to their programs of study and/or academic interests. Prerequisite: **ENGL101** or **ENGL103**. 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 ADVANCED RESEARCH WRITING 3 sem. hrs.**

This intensive version of Research Writing introduces more advanced composition students to the conventions of academic research writing. By practicing effective print and electronic research techniques; constructing accurate in-text and bibliographic citations; and employing document formatting principles consistent with a discipline-specific citation style, students will produce superior research proposals, annotated bibliographies, and fully documented research papers relevant to their programs of study and/or academic interests. Approved for General Education-Skills. Prerequisite: Successful completion of ENGL 101 or ENGL 103 or Department Chair's recommendation.

**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 General Education – Core 1.

**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.**

In this course, students will examine major trends in American Literature from its beginnings through 1865. They will read representative figures emphasizing major literary movements and cultural, racial, and social developments. Approved for General Education-Distribution 1. Prerequisite: **ENGL 101** or **ENGL 103**

**ENGL202 AMERICAN LITERATURE SURVEY II (1865-PRESENT) 3 sem. hrs.**

This course examines major trends in American literature from 1865 to present, emphasizing representative figures and their relationship to major literary movements and cultural developments. Prerequisite: **ENGL 101** or **ENGL 103**. This course is approved for General Education-Distribution 1.

**ENGL203 CREATIVE WRITING**

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 General Education-Distribution 1. Prerequisite: **ENGL101** or **ENGL103**.

**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.

**ENGL206 ADVANCED COMPOSITION**

This course focused on advanced expository writing. It studies rhetorical techniques and their practical application; issues of audience, style, and organization; and the composing/ revising process. This course is approved for General Education-Distribution 1. Prerequisite: **ENGL 101** or **ENGL 103**.

**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 majors and minors and to middle and secondary education-English majors.

**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.

**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.

**ENGL302 FICTION WORKSHOP**

Building on a foundation laid in ENGL203, 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: **ENGL203** and **one Core 1 Literature course**

**ENGL305 TECHNICAL WRITING**

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.

**ENGL308 LITERARY EDITING PRACTICUM**

Building on a foundation laid earlier in the Writing Concentration, students in this course will analyze paragraph- and sentence-level stylistic features in a substantial variety of published writing; analyze these features in their own work-in-progress; and put these skills further into practice by editing an online literary magazine. Prerequisites: **ENGL203 and ENGL206 or ENGL206 and ENGL 209.**

**ENGL310 AFRICAN AMERICAN LITERATURE 3 sem. hrs.**

This course studies African American Literature from its beginnings in the African oral tradition through the Harlem Renaissance to the present. It emphasizes representative works and writers and traces relationships to major literary movements and cultural developments. Prerequisite: **ENGL 102 or ENGL104.** 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.

**ENGL312 ESSAY WORKSHOP**

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: **ENGL206 and one Core 1 Literature course.**

**ENGL313 GRAPHIC NOVEL WORKSHOP**

Building on a foundation laid earlier in the Writing Concentration, students in this course will develop a broad understanding of the history and conventions of the graphic novel; apply to their work in this genre techniques of character development, plot structure, point of view, and voice common to all storytelling genres; and script several graphic narratives, each at least standard comic-book length. Prerequisites: **ENGL203 and one Core 1 Literature course.**

**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.

**ENGL318 POETRY WORKSHOP**

Building on a foundation laid in ENGL203, students enrolled in this course compile a portfolio of original poetry; analyze the work of contemporary and canonical practitioners of the form; acquaint 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. Prerequisites: **ENGL203 and one Core 1 Literature course.**

**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: **ENGL203 and one Core 1 Literature course.**

**ENGL325 LITERATURE OF THE BIBLE I 3 sem. hrs.**

This course offers a literary study of selected texts from the English Bible, with an emphasis on archetypal events, concepts and themes that have become foundational for Western and world cultures and have found expression in cultural values, social patterns, and literature. This course is approved for General Education –Distribution 1- Humanities and Fine Arts. Prerequisites: **ENGL101 or ENGL 103.**

**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 majors and minors and to secondary education-English majors. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**ENGL335, 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 majors and minors and to secondary education-English majors. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**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. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**ENGL341, 342, 343 TOPICS IN WORLD LITERATURE 3sem 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. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**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 various ways in which literature reflects, constructs, reinforces, and challenges gender roles and their assumptions about gendered identities. The course includes representative works by men, women, and transgendered authors to explore understandings and representations of gender and sexuality as culturally, socially, and historically determined. This course is approved for General Education-Distribution 1- Humanities and Fine Arts. Prerequisite: **ENGL 101 College Writing Skills.**

**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.

**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- STUDIES IN LANGUAGE  
398 AND LITERATURE****3 sem. hrs.**

Individual courses designed primarily for the non-English major to focus on popular topics of language or literature.

**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, AUTHORS IN CLASSICAL,  
412 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. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**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. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**ENGL415, AUTHORS IN AMERICAN  
416 LITERATURE 3 sem hrs.**

This course presents no more than three authors from the canon of American literature. Content varies according to the interests and needs of the participants. The course is open to English and secondary education-English majors.. Prerequisite: **Any 200-level literature survey course or permission of instructor.**

**ENGL421 HISTORY OF THE  
ENGLISH LANGUAGE****3 sem. hrs.**

This course studies the English language from Anglo-Saxon times (5<sup>th</sup> century) through the period of early modern English (18<sup>th</sup> century) with emphasis on the diachronic development of grammatical and lexical patterns. Students will examine the historical effects of migration, invasion, language contact, and technology that influenced specific changes in English over the centuries. Prerequisite: **ENGL 101/103 and ENGL 102/104 or equivalent.**

**ENGL425 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: **ENGL 101/103 and ENGL 102/104 or equivalent.**

**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: **ENGL302.**

**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: **ENGL318.**

**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: **ENGL312.**

**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.**

**ENGL445 ADVANCED GRAPHIC  
NOVEL WRITING**

Building on a foundation laid earlier in the Writing Concentration, students in this course will develop a sophisticated understanding of the history and conventions of the graphic novel; produce critical analyses of canonical work in the genre; further deepen already established skill in character development, plot structure, point of view, and voice; and produce as a final project a fully scripted graphic novel. Prerequisite: **ENGL313**

**ENGL446 ADOLESCENT  
LITERATURE 3 sem. hrs.**

This course examines the historical development and current forms of literature for young adults. It also examines strategies and resources for teaching literature in grade 7-12. Prerequisite: **ENGL 209 or permission of instructor.**

**ENGL450 INTERSHIPS IN  
WRITING 1-15 sem. hrs.**

B.A. English majors gain on-site experience in the forms of writing done in professional and business settings. Prerequisites: **Junior Standing and permission of Department Chair.**

**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. Prerequisite: **ENGL 209**

**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.

In this capstone course, English: Literature and Secondary Education: English majors receive advanced instruction that mirrors the goals of the Literature concentration; those goals are designed to enable students to gain breadth and depth of literary knowledge and to develop an ability to apply literary theories and techniques of literary research as they produce original works of literary criticism. In ENGL 499, as students craft rigorous and extensive oral and written research projects, they will apply their accumulated literary and theoretical knowledge, demonstrate a refined aptitude for research techniques, and communicate their findings in a culminating thesis suitable for publication in a graduate-level literary journal. Prerequisites: **ENGL489 and Junior standing.**

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## FINANCE

**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, MATH105** (or higher mathematics course), **and either ACCT221 or CSCI104**

**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: **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: **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: **FIN300 or PFP360.**

**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: **ACCT220, ECON225, FIN300 and PFP360.**

**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.

## FORENSIC STUDIES

**FORS100 INTRODUCTION TO FORENSIC STUDIES**  
3 sem. hrs.

This course examines the roles of a variety of forensic investigators as part of the medico-legal system. Crime scene investigators, forensic scientists, medical examiners/coroners, and detectives all apply scientific methodology in their efforts to find, preserve, and analyze evidence related to case investigations. Students enrolled in this course will be exposed to a variety of important topics and relevant virtual laboratory exercises to provide a foundation for understanding the fascinating world of the forensic sciences. This course has been approved for General Education-Core 7.

## FRESHMAN YEAR EXPERIENCE

**FYE10031 PLAYING THE NUMBERS GAME**  
3 sem. hrs.

This course will begin with an introduction to critical thinking and problem solving skills. Some of the topic discussed include: problem solving, numbers and their properties, infinity and beyond, geometry in our world, probability, and statistics. As time permits, games will be used throughout the course to illustrate mathematical concepts. Prerequisites: One of the following high school courses: Precalculus, Trigonometry, or Calculus. This course is approved for General Education Skills. Students may not receive credit for this course and Math 104. Students who require a specific mathematics course for their major may use this course as a free elective. This course is approved for General Education- Skills Math. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.



**FYE10032 THE MATHEMATICS OF MUSICAL CONSONANCE**  
3 sem. hrs.

This course explores the relationship between music, which pleases the ear, and mathematics, which pleases the intellect, at a level suitable for freshmen pursuing the General Education mathematics skills requirement. From ancient Greek understanding of the number theory and geometry of musical structure to its contemporary grounding in set theory and probability, mathematics and music have developed hand-in-hand. We explore this development, frequently appealing to original source. Prerequisites: Placement into Math 104 or higher. Students may not receive credit for this course and Math 104, Finite Mathematics. Students who require a specific mathematics course for their major may use this course as a free has elective. This course is approved for General Education- Skills Math. This course will be offered exclusively to First-year students, has limited enrollment, and been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10033 RESTORING EUCLID'S HONOR: MATHEMATICAL REASONING AND GEOMETRY** 3 sem. hrs.

This course will examine modern criticisms of Euclid's Elements (once fundamental to Western education), including issues related to measurement, hidden assumptions, and the parallel postulate. We will take a renewed approach to geometry, developing a modern, coherent Euclidean geometry with a strong emphasis on axioms, definitions, and logic. Students will create mathematics themselves through investigation and discussions, develop an appreciation of logic and modern mathematics, and come to understand the ultimate importance of Euclid's work. Prerequisites: Placement into Math 020 or higher. Students may not receive credit for this course and Math 104, Finite Mathematics. Students who require a specific mathematics course for their major may use this course as a free elective. This course is approved for General Education- Skills Math. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10034 THE MATHEMATICS OF BASEBALL** 3 sem. hrs.

This course introduces some basic concepts of mathematics from a baseball perspective. Topics considered include descriptive statistics (sabermetrics), set theory, probability, geometry, and voting. Students are expected to be familiar with the rules and vocabulary of baseball. Prerequisite: Placement into Math 104 or higher. Students may not receive credit for this course and Math 104. Students who require a specific course for their major may use this course as a free elective. This course is approved for General Education- Skills Math. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10101 UNIVERSITY 100** 3 sem. hrs.

This course 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. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10102 GOTHIC LITERATURE** 3 sem. hrs.

This course will examine examples of Gothic, or horror, in literature. Using both text and film, students will use these examples to understand how stories are created, developed, and what the stories have to say about the culture in which they were created. FYE 101 will orient first year, transfer, and first time Edinboro students during their transition to university life. It is specifically designed to acclimate the student to college and increase the probability that they will attain academic success. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10103 THE LITERATURE OF BASEBALL** 3 sem. hrs.

This course will examine how baseball has been depicted and analyzed in various genres, including novels, short stories, essays, memoirs, oral history, journalism, poetry, film, and the popular song. Students will read, discuss, and write about these texts in order to better understand the significance of baseball within American culture. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10104 HORROR FICTION AS SOCIAL CRITIQUE: VAMPIRES, AND WEREWOLVES, AND ZOMBIES - OH MY!**

3 sem. hrs.

This course will consider examples of various genres of horror fiction, including short stories and a novel, connecting these texts to modern social issues and ethical debates. We will discuss the works' use of literary elements such as symbol and theme as we explore how these fictions use monstrosity to depict degrees of difference between characters, and between characters and society. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10105 LITERATURE AND THE ATOMIC BOMB** 3 sem. hrs.

This course will examine the various forms of written expression that emerged with the dawning of the nuclear age in 1945. These texts reveal how writers have tried to articulate contemporary hopes and fears of people living under the shadow of potential worldwide catastrophe. The course also explores how such literary works are relevant to post-9/11 America. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10106 LITERATURE FROM OUTER SPACE** 3 sem. hrs.

This course will examine the history and variety of Science Fiction. It will examine the field's use of a variety of genre and themes. The course will also examine the methodology of science fiction and its place in the world of literature and storytelling. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10107 PERFORMING GENDER**  
**3 sem. hrs.**

The question of gender in performance is a special topics course that will develop students' critical thinking and social awareness. The course addresses gender neutral casting and dramatic literature in which gender is intentionally altered. The political and social climate in which one's understanding of gender identity is developed will serve as the foundation for class discussions and readings. Approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10109 HARRY POTTER**  
**3 sem. hrs.**

This course examines the seven-novel Harry Potter series by J.K. Rowling. It will cover issues such as literature's connection to myth and folklore, the process of literary analysis, and the creation and marketing of popular fiction. Students will develop an in-depth understanding of literature and the creative process. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10110 THE GRAPHIC NOVEL:  
EXPLORING HISTORY,  
ART, & WRITING**  
**3 sem. hrs.**

After a century of development, the graphic novel has become a popular and accomplished artistic and literary form frequently used in modern day classrooms. Students will develop habits and skills of active reading that will help them be aware of meaning in graphic novels and of what authors and artists have done to create or suggest what the reader understands. Students enrolled in this course will gain further understanding of the artwork, the visual emotions of the characters, and the cultural aspects in which the characters live and develop. Students will apply these skills to create their own application of the sequential art of graphic storytelling. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10111 DESIGNING POP  
CULTURE**  
**3 sem. hrs.**

Students will gain analytical skill necessary to analyze pop culture from a design and layout perspective. Focusing on the intersection of pop culture and design, students will learn how pop culture and consumerism have influenced and impacted basic design principles and ideals, along with the ways in which these principles are represented in our most popular forms of media. This course is approved for Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10112 ORIGAMI: THE ART OF  
PAPER FOLDING**  
**3 sem. hrs.**

This course will introduce students to the art known as origami. This course will begin by investigating the uncertain origins of origami and the foundational folds used to create traditional models. The course will cover various branches of modern origami: modular, crumpling, tessellations, pleating, pureland, and more. This course is approved for Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10113 INTRODUCTION TO  
ANIMATION**  
**3 sem. hrs.**

This introductory course in basic animation will emphasize a historical overview related to current animation trends in the entertainment industry, education, and independent/experimental production. The course provides a synopsis of the practical aesthetic and technical experiences in traditional principles and physics of motion, as well as an analysis of action and basic physical laws through the study of movement and time. This course is approved for General Education Core 1: Artistic Expression. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10114 THE GRAPHIC NOVEL AS  
LITERATURE**  
**3 sem. hrs.**

This is an introductory course that introduces students to the literary genre of the graphic novel. Graphic novels incorporate images to illustrate a narrative; they are essentially comic books extended in story and plot line of the length of a novel. Authors from many other genres, such as action-adventure, anime, science fiction and autobiography, and from multiple parts of the world, including Japan and Iran, have developed and expanded this fictional genre. This course will explore the conventions of fiction in graphic novels through reading multiple examples of them. This course is designed exclusively for first year students and meets the goals of the FYE program which include: critical inquiry, frequent writing, collaborative learning and information literacy. This course is approved for General Education Core 1: Artistic Expression.

**FYE10201 THE RESISTANCE IN THE  
HOLOCAUST**  
**3 sem. hrs.**

This course examines the history of The Resistance in the Holocaust. In understanding the contributions of those who did resist the inhumanity, the course will define genocide, anti-Semitism, extermination, and the challenges to those. The majority of intellectual discourse has focused on the horrific events of the Holocaust and with reason; however, this course focuses on those, who in the face of insurmountable obstacles, including torture and death, risked everything to stand up for justice. FYE 102 will orient first year, transfer, and first time Edinboro students during their transitions to university life. It is specifically designed to acclimate the students to college and increase the probability that they will attain academic success. This course is approved for General Education Core 2: World Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10202 FAMOUS FEUDS IN  
HISTORY**  
**3 sem. hrs.**

This course studies famous feuds in history from a local, regional, national, and international perspective. It also analyzes the impact of feuds on individual, national, and global relationships. FYE 102 will orient first year, transfer, and first time Edinboro students during their transitioning to university life. It is specifically designed to acclimate the student to college and increase the probability they will attain academic success. This course is approved for General Education Core 2: World Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10203 PIRATES, PRIVATEERS, AND BUCCANEERS: A HISTORY 3 sem. hrs.**

This course examines the global history of piracy from the Elizabethan world to the mid-eighteenth century, a period historians roughly designate as “early modern.” The course studies the economic, social, and political history of male and female pirates. FYE 102 will orient first year, transfer, and first time Edinboro students during their transitions to university life. It is specifically designed to acclimate the students to college and increase the probability that they will attain academic success. This course is approved for General Education Core 2: World Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10204 THE HISTORICAL JESUS 3 sem. hrs.**

This course is a historical examination, through extra-biblical, non-canonical, and extra-Christian sources, of the life and times of the Historical Jesus, placing him within the socio-cultural content in which he lived. Using the Historical Jesus as the springboard, this course will examine political, economic, and social life in ancient civilization, connecting them with the modern era. This course is approved for General Education Core 2: World Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10205 WELL-BEHAVED WOMEN RARELY MAKE HISTORY; HERETICS AND HEROINES 3 sem. hrs.**

This course examines the history of selected women who deviated from societal expectations and often found themselves challenging authority. The course covers heretics and heroines who contributed to the development, and at times decline, of historical events and issues. This course is approved for General Education Core 2: World Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10206 THE EVOLUTION OF CULTURE, TECHNOLOGY AND MEDIA 3 sem. hrs.**

This course examines the historical and fundamental shifts with technology in cultural evolution. This will include a focus on the ideas, values, technologies and media that have shaped world civilizations, as well as human communication and expression. This includes a focus on the shifts from orality, literacy and contemporary virtuality cultures. This course will allow new undergraduates to articulate their ideas and values, as well as help them communicate and apply this learning in navigating their academic, professional, and personal experiences at the university. This course will be offered exclusively to first year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative writing and active learning. This course is approved for General Education, World Civilizations: Core 2.

**FYE10301 SALEM WITCH TRIALS 3 sem. hrs.**

This course studies the causes and results of the Salem witchcraft trials of 1692 by examining the political, economic, and social context in which they occurred. It further analyzes the long-term effect of the witch trials through the course of U.S. history, looking at related issues and events into the modern era. FYE 103 will orient first year, transfer, and first time Edinboro students during their transitions to university life. It is specifically designed to acclimate the students to college and increase the probability that they will attain academic success. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10302 REPRODUCTIVE POLITICS 3 sem. hrs.**

In this course, students will explore the law and politics of human reproduction, including controversies over contraception, abortion, and sex education. Students will focus on American society but will enhance their comprehension through comparative analysis. Students will learn how to access and analyze a wide range of data (legal, opinions, polls, scientific studies, etc.) and will be encouraged to take ownership of their own research and conclusions regarding reproductive politics. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10303 COLLEGE: WHAT, WHY, AND HOW? 3 sem. hrs.**

This course focuses on the college experience by examining theory, research and the writings of college students. Emphasis will be placed on the study of college as a social institution; the expectations of college students, their professors, and the families; the personal growth that is associated with college; the experience of being a freshman; and debates about the purpose and value of college. Students will engage in careful analysis of social and news media, campus activities and messages, and narratives related to college; they will link their own experiences to required materials. This course will help students better understand and shape their own experiences in college as well as analyze a significant sociocultural institution. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10305 HIP-HOP, RAP, POLITICS AND ACTION 3 sem. hrs.**

This course will examine the genre in its political context. Specifically, students will address the social forces surrounding the development of the music as a vehicle for political ideology, messaging, and action. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10306 THE HISTORY OF HIP-HOP: FROM THE SOUTH BRONX TO A GLOBAL PHENOMENON 3 sem. hrs.**

This course is designed to critically examine the history and evolution of Hip Hop culture and identify the ideological foundations of this global phenomenon. The course traces the cultural, social-economic, and political history of Hip Hop and the circumstances under which it emerged. The course covers different elements of Hip Hop and its evolution. Moreover, this course seeks to explore the phenomenon’s influence and significance on the development of global popular culture. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10307 AMERICAN VISIONS****3 sem. hrs.**

As they read American literature, students will ask questions about how American identities have been envisioned. Examining the impact of ideas about race, gender, ethnicity, and class on conceptions of America and Americanness, students will discover the themes, concerns, and preoccupations that shape the national imagination. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10308 GRAFFITI, LOWRIDERS, AND TATTOOS: LATINO/A POPULAR ART IN THE U.S.****3 sem. hrs.**

This course is a historical overview of Latino/a culture and artistic production and reception in the United States. Students will examine the challenges faced by Latino/a artists: marginalization, prejudice, and exclusion by museums, critics and mainstream public. This course will demonstrate how Latino/a art synthesizes New World/Old World artistic influences in order to create a new visual experience, as Latinos/as are an important and integral part of American civilization and culture. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10309 SUPERHEROES, COMIC BOOKS AND POLITICS****3 sem. hrs.**

This course examines comic books and the genre of superheroes in political context. Specifically, students address the social forces surrounding the development of comics and superheroes as vehicles for political ideology, messaging, and action. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10310 AMERICA'S NATURAL RESOURCES: PAST, PRESENT AND FUTURE OF CONSERVATION IN THE USA****3 sem. hrs.**

This introductory course will explore changing attitudes in the United States toward conservation and natural resource management throughout its history. It will distinguish between renewable and nonrenewable resources, and examine geographic distribution of resources, impacts of resource extraction and use, and conservation strategies. Our focus will be on conservation practices that initially arose in response to resource exploitation, and how conservation practice changed over time as American values and concerns shifted. In addition to conservation ideas, the course will emphasize government agencies that conserve resources, such as the Forest Service, and also types of land the government protects, including National Forests and National Parks. This course is approved for General Education Core 3: American Civilizations. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10401 LANGUAGE OF POWER AND TERROR****3 sem. hrs.**

This course examines the language, rhetoric and ideologies promulgated by nationalist and extremist groups, with emphasis on the policies, practices and beliefs that serve as the rationale for terrorist and counter-terrorist acts. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10402 THE LYRICS OF BRUCE SPRINGSTEEN: A RHETORICAL, CULTURAL, AND CRITICAL ANALYSIS****3 sem. hrs.**

This course examines the lyrics, rhetoric, and themes represented in the music of Bruce Springsteen as a means to explore the role of song as a form of communication and as a mode of social change. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10403 LEAD THE WAY: LEADERSHIP THEORY AND APPLICATION****3 sem. hrs.**

This course will serve as an introduction to the field of leadership studies. Emphasis will be placed on theoretical concepts and their practical applications so students can develop their own leadership approach. This course provides the basis for understanding what leadership is and what leaders do to be successful. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10404 WATCHING THE WIRE****3 sem. hrs.**

This course is designed to examine the show's portrayal of urban America as a window into a number of different social problems and conditions distinct to contemporary society, including the drug war, the underclass, urban policies and development, post-industrial cities, political corruption, urban education, and mass media coverage. The course will focus on close viewing, discussion, critical analysis, and research about the show's social and sociological contexts. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10405 CYBORGS AND SOCIAL NETWORKS****3 sem. hrs.**

This course introduces students to theoretical and empirical perspectives on the dynamics of social networks, social cyborgs, and mediated reality. Students will explore the notions of social solidarity, group formation, identity construction, diversity, inequality, consumer capitalism, social control mechanisms, civic engagement, globalization and processes of social change as they have been transformed by digital communication and other technological advancement. This course is approved for General Education Core: 4 Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10406 GEEK CULTURE AND FANDOM 3 sem. hrs.**

This course explores the rise of the ‘geek/nerd’ in popular culture, and the relationship between ‘geekdom’ and ‘fandom.’ Specifically, it examines the changing attitudes toward geeks/nerds in popular media; what it means to ‘be’ a geek/nerd; gender, sexual orientation and race issues in geek/nerd culture; how fanboys and fangirls differ in their interactions with texts, and the production of fan-art/texts; and the commercialization of ‘geekdom’ and ‘fandom’. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10407 KEEP AN OPEN MIND 3 sem. hrs.**

This course examines the brain’s relationship to the mind. Drawing from popular neuroscience, cognitive psychology, religion and philosophy, quantum physics, mathematics, communication sciences and disorders, the brain-mind complex will be explored to enhance understanding of how to optimize brain skills, brain health, creativity, and performance even in the face of devastating neurological catastrophes. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10408 HANDLE YOUR STRESS FOR ACADEMIC SUCCESS 3 sem. hrs.**

This course will orient first year, transfer and first-time Edinboro students during their transition to university life. It is specifically designed to acclimate the student to college and increase the probability that they will attain academic success. Examples of topics that will be covered in this course include stress psychophysiology; common sources of stress at both the individual and societal levels; stress intervention methods at the biological, psychological, and social levels; and stress-related issues specific to helping first-time university students meet the daily demands of college life. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10409 QUESTIONING THE WORLD AROUND US 3 sem. hrs.**

Have you ever wondered how whales drink? Why do we capitalize “I” in sentences, but not “we”? Why do we wonder about these things? Why do we ask questions? Address these questions and more in FYE 104 Puzzling Conundrums: Questioning the World Around Us. This course is designed to highlight the importance of information literacy and research skills while developing presentation and oral communication skills through the exploration of novel, interesting, and thought provoking questions about the world around us. Students will hypothesize, explore, and present unique solutions to questions about the world. Students will discuss the importance of questioning and informed decision making while exploring the process by which knowledge is constructed and applied. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10411 PSYCHOLOGY OF CURRENT EVENTS AND EVERYDAY LIFE 3 sem. hrs.**

This course introduces the methods, theories, and key findings from Psychology, the scientific study of behavior and mental processes, and examines them through current events and examples from everyday life, including topics such as research on concussions, medical and military applications of animal training, the impact of role models in the media, and the pros and cons of various treatments for psychological disorders. FYE 104 is specially designed to help students make a healthy transition from high school to a university setting and also includes topics related to academic success. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10412 HEALTH SURVIVAL TRAINING FOR MILLENNIALS 3 sem. hrs.**

This FYE course examines health issues pertinent to the millennial generation by exploring the social, physical, and emotional paradigms of health promotion. Content covers both historical and contemporary perspectives addressing behaviors which promote health as well as those that potentially compromise health. This course is approved for General Education Core 4: Human Behavior. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10501 SECRETS OF THE DEAD: DEAD BODIES IN FORENSIC AND ANTHROPOLOGICAL CONTEXT 3 sem. hrs.**

Dead bodies can be buried, burned, preserved, or eaten. The dead can be revered, feared, or studied. This course will explore how cultures dispose of their dead and what powers they ascribe to the dead. Using anthropological and forensic analysis, this course will examine why cultures treat corpses the way they do, and why the dead—or the undead—behave as they do. This course is approved for General Education Core 5: Cultural Diversity and Social Pluralism. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10502 JAPANESE TEA CEREMONY 3 sem. hrs.**

This course is a cross-cultural overview of a traditional art form, the Japanese tea ceremony. Included in the study and practice of tea are related traditional Japanese art (e.g., origami, haiku) for developing an awareness of self, place, and community. Content will cover history, practice, and reflection with activities designed to acclimate the students to college and increase academic success. FYE 105 will orient first year, transfer, and first time Edinboro students during their transitions to university life. This course is approved for General Education Core 5: Cultural Diversity and Social Pluralism. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10503 THE SOCIOLOGY OF SUPERHEROES 3 sem. hrs.**

Using the sociological perspective, this course will focus on the analysis of the socio-cultural components of diversity inherent to comic books, via the broader U.S. culture, sub-cultures, and global cultures. FYE 105 will orient first-year, transfer, and first time Edinboro students during their transitions to university life. It is specifically designed to acclimate the student to college and increase the probability that they will attain academic success. This course is approved for General Education Core 5: Cultural Diversity and Social Pluralism. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10504 FROM CAVEMEN TO ROCK BAND 3 sem. hrs.**

A hybrid studio/discussion-based First Year Experience Course (FYE) for all freshmen students. It addresses the role of visual culture in human history. Students develop a sketching/writing practice as a study method for academic success. The underlying theme revolves around significant “sketches” in history and how they speak to the core cultural values of their creators. No artistic skills are required. This course is approved for General Education Core 5: Cultural Diversity and Social Pluralism. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10505 MARTIN LUTHER KING JR., AND MALCOLM X: A COMPARATIVE ANALYSIS 3 sem. hrs.**

This course offers a detailed comparative analysis of the life and philosophy of Dr. Martin Luther King Jr. and Malcolm X in the context of the Civil Rights Movement of the 1950s and 1960s. The course will examine the early influences on the lives of these leaders and differentiate how their backgrounds influenced their ideological differences. In addition, this course will provide an analysis of their ideologies and how their beliefs converge and diverge at certain points. Students will gain an in-depth examination of Dr. King and Malcolm X speeches, organization skills, and challenges. This course is approved for General Education Core 5: Cultural Diversity and Social Pluralism. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10508 RACE GENDER, & THE LAW 3 sem. hrs.**

This course will provide an overview of the complex interconnections between race, gender, and the law in the United States. The course will also focus on the role the law plays in causing and remedying gender based and racial inequality, and include identifying contemporary issues related to gender, race, and the law in areas like affirmative action in the 21<sup>st</sup> century, workplace discrimination, language rights, racial profiling, and racial disparities in criminal sentencing. This course is approved for General Education Core 5: Cultural Diversity and Social Pluralism. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10601 YOU MAKE THE CALL: CONTROVERSIES AND ETHICAL ISSUES IN SPORT 3 sem. hrs.**

This course provides students with content and activities that will develop critical thinking skills, acquaint them with the moral principles, and allow them to develop and explore their moral values. Examples of topics that will be covered in this course include: 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. This course is approved for General Education Core 6: Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10602 ETHICAL AND CULTURAL ISSUES IN HARRY POTTER 3 sem. hrs.**

This course will examine the Harry Potter films to discuss issues of ordinary virtue and extraordinary virtue, including social discrimination, animal rights, human rights, and efforts to conquer death. It is expected that students will already be mostly familiar with the Harry Potter saga, either through the novels by J.K. Rowling, or the movie series. This course is approved for General Education Core 6: Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10603 SO SUE ME! OWNERSHIP AND BORROWING IN LITERATURE AND THE VISUAL ARTS 3 sem. hrs.**

Many artists, such as those in the visual arts and literature, borrow from the works of predecessors and incorporate them into the context of the new work of art. This course will examine appropriation from the standpoint of ethics of this type of art. FYE 106 will orient first year, transfer, and first time Edinboro students during their transitions to university life. It is specifically designed to acclimate the student to college and increase the probability that they will attain academic success. This course is approved for General Education Core 6: Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10604 DOES GOD EXIST? 3 sem. hrs.**

This FYE course is devoted to the classic philosophical issue of whether God exists. More specifically, it is mainly devoted to exploring two questions: Is there good evidence for or against the existence of God? Can belief in God be rational in the absence of good evidence? The course pays special attention to moral arguments for and against the existence of God, and to moral considerations concerning faith. This course is approved for General Education Core 6: Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10605 MORALITY, FAITH, AND THE MEANING OF LIFE 3 sem. hrs.**

This course explores three main questions: whether morality depends on religion, whether religious faith is rational, and whether the meaning of life depends on religion. Students will reflect on their own values and beliefs, learn about alternatives to them, and improve their ability to articulate and defend their view. Real-world applications and illustrations are emphasized, and cultural and religious diversity are examined in the exploration of the central issues. This course is approved for General Education Core 6: Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10606 PEOPLE AND THE PLANET: LOCAL TO GLOBAL ENVIRONMENTAL ISSUES AND CHOICES 3 sem. hrs.**

This course is an introduction to the “Anthropocene”, the current era in which people now have a dominant influence on Earth, the planet we all depend on for meeting the needs and wants of our everyday lives. The focus will be on understanding this human dominance: the emergence and current indicators of the Anthropocene, local to global environmental issues we currently face, and the ethical consequences of choices we make now and in the future. This course is approved for General Education Core 6: Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10607 BIG QUESTIONS****3 sem. hrs.**

This course investigates the practical and ethical dimensions of life's big questions. Team-taught by faculty from multiple disciplines, the course presents several focused lines of inquiry that constitute "big questions". Engaging with faculty, peers, and university resources, students will improve their communication and critical-thinking skills and develop their personal, social, and professional decision-making skills. The course will enable new undergraduates to articulate their interests, moral values, and beliefs and will facilitate their acquisition of the skills needed for college success. This course has been approved for General Education Core: 6 Ethics. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10701 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: Natural Sciences. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10702 PA ROCKS: THE GEOLOGY OF PENNSYLVANIA 3 sem. hrs.**

This Geosciences course focuses on the earth materials, geological processes, and geological history of Pennsylvania. It includes, as evidence in the Commonwealth, the origin, occurrences, classification, and properties of minerals and rocks, the processes of erosion and deposition, and concepts related to geological time, systems, hazards, tectonic processes, and environmental issues. No prerequisites, 2-hour lecture and 2-hour lab per week. This course is approved for General Education Core 7: Natural Sciences. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10703 CHEMISTRY OF GLASS****3 sem. hrs.**

This course is an introduction to the chemistry of glass. The class will start with a brief history of glass; will include discussion and laboratory experiences of how to manipulate glass. The course will investigate the particulate structure of glass, its physical and chemical properties and will link those properties to many uses of glass. This course meets four hours per week, including a two-hour laboratory. This course is approved for General Education Core 7: Natural Sciences. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10704 THE LION KING: AFRICAN WILDLIFE AND ITS CONSERVATION****3 sem. hrs.**

In this course, students will be introduced to basic biological principles related to conservation. The natural history and conservation status of selected African wildlife will be examined through readings, media, and field trips. Emphasis will be placed on the interdisciplinary nature of conservation, to develop workable solutions for conservation issues, one must consider not just biology, but also culture and economics. Students will be asked to critically analyze questions pertinent to the field. For example: Is trophy hunting beneficial for conservation? Are costs associated with saving endangered animals warranted? Do zoos have a role in conservation? This course is approved for General Education Core 7: Natural Sciences. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10705 THE WACKY WEATHER AND CHANGING CLIMATE OF PENNSYLVANIA 3 sem. hrs.**

This is an introductory course that explores the fundamental concepts of weather and climate with a focus on the Commonwealth of Pennsylvania. Basic principles in atmospheric science are investigated using historic weather events that unfolded in Pennsylvania as case studies. An emphasis is placed upon understanding the cause and effects of weather phenomena such as heat waves, arctic outbreaks, droughts, floods, thunderstorms, hurricanes, tornadoes, blizzards, ice storms, and lake-effect snows. Past changes in climate, such as those associated with glacial and interglacial periods, are investigated as are projected future trends. This course is approved for General Education Core 7: Natural Science. This course will be offered exclusively to First-year students, has limited enrollment, and has been designed to meet the goals of the FYE program which include: critical inquiry, frequent writing, collaborative and active learning.

**FYE10706 LIFE AT THE ERIE ZOO****3 sem. hrs.**

This course provides a unique opportunity to learn about and experience the inner workings of the National Accredited Erie Zoo. In this course, students will be introduced to how a zoo is run, who runs the zoo and what the main purposes of zoos are. It will include presentations by zoo personnel, behind the scene tours, and animal observation projects. Emphasis will be placed on the basic biological principles related to animal behavior and conservation. The behavior and conservation of animals the zoo will be examined through first-hand observations, presentations by zoo personnel, and research. This course is designed exclusively for first year students and meets the goals for the FYE program which include: critical inquiry, frequent writing, collaborative learning, and information literacy. Classes will be conducted both on campus and on the zoo grounds. This course is approved for General Education-Core 7.

**- G -****GEOGRAPHY****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.

**GEOG302 FIELD NATURAL HISTORY****3 sem. hrs.**

This course will provide students with the skills and tools necessary to observe and study the physical and biological features of local environments, including streams & wetlands, meadows, forests, and park-like settings. Basic environmental and ecological monitoring techniques will be emphasized. A significant portion of the course will take place outdoors. Prerequisite: **GEOG245** Conservation National Resources and Permission of Instructor.

**GEOG305 CARTOGRAPHY****3 sem. hrs.**

This course introduces mapmaking and map usage. Topics covered include coordinate systems, map projections and datums, scale, classification, symbolization, and design. Mapping software will be used to produce a variety of types of thematic maps, including choropleth, dot density, isarithmic, and proportional symbols. This course is approved for General Education-Distribution 2-Social and Behavioral Sciences. Prerequisite: Sophomore standing with 30 or more credit hours, or major in Environmental Studies, GIS, Geology, or Wildlife Biology.

**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.

**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 **BIOL102** 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**.

## GEOSCIENCES

**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.

**GEOS103 OBSERVING OUR COSMOS 3 sem hrs.**

Explore the dynamics of our solar system and galaxy in the Edinboro University Planetarium. "Observing Our Cosmos" is a basic introductory course which explores the fundamentals of astronomy through observation and investigation. Students will discover the reason for seasonal changes, significant constellations and stars, and stellar magnitudes and types. An emphasis will also be placed on Earth-based observations of the planets and orbital dynamics, eclipses, and small bodies posing a threat to Earth. This course is not open to students who are enrolled in or have successfully completed GEOS109. 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 course is not open to students who are enrolled in or have successfully completed GEOS 109. 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 FYE10702 PA Rocks**. 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: **Sophomore standing with 30 or more credit hours**. 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.

**GEOS310 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.

**GEOS311 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: **GEOS101 or FYE10702 PA Rocks** 3 hours lecture, 3 hours lab.

**GEOS320 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.

**GEOS321 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: **GEOS320 or equivalent**. 2 hours lecture, 2 hours lab.

**GEOS375 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: GEOS101 or FYE10702 PA Rocks

**GEOS395 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.

**GEOS403 TOPICS IN CLIMATE SCIENCE 3 sem. hrs.**

This course explores current perspectives in climate science research. Topics will include: issues surrounding data collection, recent findings pertaining to the physical causes of climate change, climate modeling efforts, and strategies that humans may employ to deal with a changing climate. Prerequisite: GEOS303

**GEOS410 APPLIED GEOPHYSICS 3 sem hrs.**

This course provides an introduction to geophysical techniques commonly applied in geological investigations of Earth's subsurface. Techniques used to determine the thickness and geometry of shallow and deep sediment and rock layers will be explored. Geophysical techniques permit diverse types of exploration, with applications in petroleum, groundwater, engineering, environmental geology, archaeology, and forensic studies. This course has 2 hours lecture and 2 hours lab. Prerequisite: **GEOS112**

**GEOS430 GEOLOGY OF ENERGY RESOURCES 3 sem. hrs.**

This Geology course provides an overview of the geologic underpinnings of energy resources. Students will study geologic processes that lead to the origin, migration, and entrapment of hydrocarbons and will learn and apply basic geologic methodologies and techniques of hydrocarbon exploration. Students also will explore environmental impacts of the energy industry and, through study of alternative / renewable energy resources, will gain appreciation for changing trends in future energy generation and usage. Prerequisite: **GEOS112**

**GEOS490 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.

**GEOS495 RESEARCH EXPERIENCE IN GEOSCIENCES 3 sem. hrs.**

This is a seminar for junior and senior students who are engaged in research with a faculty mentor in the geosciences. This course exposes students to the methods of both primary and library research, and includes the identification/formulation of a research problem, literature searching/review, research design, execution and analysis, and presentation of results. Prerequisites: **Geology major with 75 earned hours or permission of instructor.**

**GEOS505 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: **GEOS112 or consent of instructor**

**GEOS507 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: **GEOS112 or consent of instructor.** 2 hours lecture, 2 hours lab.

**GEOS513 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: **GEOS311 or consent of instructor.** 3 hours lecture, 3 hours lab.

**GEOS521 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: **GEOS112 or consent of instructor.** 3 hours lecture, 3 hours lab.

**GEOS522 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 GEOS222 may not take this course. Prerequisite: **GEOS112 or consent of the instructor.**

**GEOS523 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: **GEOS112 or consent of instructor.** 3 hours lecture, 3 hours lab.

**GEOS525 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: **GEOS112 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 FYE10702 PA Rocks.** 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 or FYE10702 PA Rocks.** 2 hours lecture, 2 hours lab.

**GEOS593 SEMINAR IN EARTH SCIENCES 1-9 sem hrs.**

This advanced seminar focuses on topics in earth sciences. 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 geoscience majors. Prerequisite: **Permission of instructor required.**

**GERMAN****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**.

## HEALTH AND PHYSICAL EDUCATION

### 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 provides the foundation necessary to manage, plan, implement, and evaluate health, wellness, and fitness promotion programs in a variety of business and industrial work places. Specific areas of concentration include rationale for and benefits of worksite health promotion programs, conducting needs assessments, writing program goals and objectives, facilitating employees' health behavior change, cultivating a healthy work environment, financial considerations in program planning, promoting/marketing programs, and evaluating programs.

### 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

**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.

**HPE223 INTRODUCTION TO STRENGTH AND CONDITIONING 3 sem. hrs.**

This course provides basic knowledge in the area of strength and conditioning, especially as it relates to athletic populations. Students are introduced to a variety of concepts related to strength and conditioning programs for a variety of athletes at different time points in regard to the competitive season.

**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.

**HPE241 STRESS MANAGEMENT 3 sem. hrs.**

This course assists students in acquiring a background of scientific knowledge related to stress and stress management. It emphasizes topics commonly addressed in school health settings and in community, corporate, and/or medical settings in anticipation of a health promotion career. Specific areas of concentration include stress psychophysiology, stress and illness/disease, common sources of stress, stress intervention methods, stress management techniques, stress through the life cycle, and stress issues specific to college students. Students will gain stress management knowledge and skills to utilize in their careers as health professionals, as well as in their own lives.

**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.

**HPE249 WEIGHT MANAGEMENT 3 sem. hrs.**

This course assists students in acquiring a background of scientific knowledge related to weight and weight management. It emphasizes topics commonly addressed in a variety of professional settings and in community health, corporate health, and/or medical settings. Specific areas of concentration include nutrition, exercise, weight-related illness, dieting, stress, health behavior change, and healthy weight management practices. Students will gain weight management knowledge and skills to utilize in their careers as health and wellness professionals, as well as in their own lives.

**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.

**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: **HPE 132 or HPE133.**

**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: **HPE 132 or HPE133.**

**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: **HPE301 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.

**HPE316 ADMINISTRATION OF INTERCOLLEGIATE ATHLETICS & CAMPUS RECREATION 3 sem. hrs.**

This course is an applied experience to the management of intercollegiate athletics and campus recreation. Subject matter includes the basic operations of intercollegiate athletics and campus recreation programs and services offered. Classroom learning is combined with practical job-related learning experiences to enhance management skills. Prerequisites: **30 credits including HPE145 and HPE252.**

**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 CONTEMPORARY TOPICS IN SPORT & RECREATION MANAGEMENT 3 sem. hrs.**

This course will investigate the current issues and topics that will face future sport and recreation administrators in American Society. This course will also explore the effects of sport and recreation programming on the values, ethics, and culture within a diverse American society, and explore solutions to sport and recreations issues. Prerequisite: **30 credits including HPE145 & HPE252.**

**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.

**HPE333 PERSONAL TRAINING PRACTICUM 3 sem hrs.**

In this course, students will put into practice principles of fitness assessment and exercise prescription with one or more adult clients. Students will collect health history information, conduct fitness and knowledge assessments, prescribe individualized exercise plans, supervise exercise sessions, and conduct follow-up fitness assessments. Students will adhere to national standards and guidelines for all testing procedures and exercise recommendations. Prerequisites: **HPE222, Current Adult CPR/AED Certification, Current Liability Insurance, Permission of the Instructor.**

**HPE350 EXERCISE PHYSIOLOGY I 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. Prerequisite: **HPE222**

**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 HPE 132, or permission of the 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.**

**HPE 365 EXERCISE TESTING & PRESCRIPTION 3 sem. hrs.**

This course examines graded exercise testing for a variety of populations using laboratory and field tests. It also addresses the prescription of individual exercise programs based on appropriate screening and test results. The importance of safe testing and prescribing exercise to the general population, as well as special populations, will be emphasized. Prerequisite: **HPE 222 or HPE 350, or permission of the instructor.**

**HPE384 TECHNOLOGY INTEGRATION IN HPE**  
3 sem. hrs.  
This course provides the knowledge, skills, and understanding need to effectively integrate technology into the work environments of fitness, human performance, recreation, sport, health and physical education. Basic data management skills will be enhanced, and use of hardware, desktop and web-based software, apps, sensors and accessories to maximize quality of life and longevity will be explored. Prerequisite: **Sophomore standing or higher.** This course is approved for General Education - Computer Competency.

**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 K-12 field experience includes teaching/learning experiences in both health and physical education academic areas under the immediate supervision and direction of public school cooperating teachers. It considers all aspects of school organization and administration with focus primarily on classroom planning toward effective teaching/learning. Prerequisite: **60 credits and HPE 133, 135, 222, and 245.**

**HPE406 WORKSITE FIELD EXPERIENCE**  
3 sem. hrs.  
This course provides students with essential links between classroom information and pre-professional experiences in the areas of health promotion, sport and recreation administration, and human performance. Students will be introduced to organizational missions, public relations, program planning and implementation, event management, fitness assessment and instruction, individual client work, and other experiences related to these professions. Prerequisite: **60 credits and HPE 132.**

**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: **STAT260.**

**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.**

## HISTORY

**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 or ENGL 104, STAT260, 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.

**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 ENGL 104 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 ENGL 104 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: **ENGL102 or ENGL104 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.**

**HIST328 HISTORY OF INTERNATIONAL TRADE**  
3 sem. hrs.

This course will introduce students to the history of international trade. This course studies how factors such as geography, climate, culture, and politics both facilitate and restrict trade and trade patterns. From this course, students will develop an understanding of how human impulse, just like the needs for food, shelter, companionship, and prestige, impacts international trade and the development of religions, politics, and culture throughout history. This course is approved for General Education-Distribution 2- Social and Behavioral Sciences. Prerequisite: **ENGL 102 or ENGL104.**

**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 I 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 ethnocultural 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, counterculture, 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.

**HIST382 THE HISTORY OF HIP HOP: FROM THE BRONX TO A GLOBAL PHENOMENON 3 sem. hrs.**

This course is designed to critically examine the history and evaluation of Hip Hop culture and identify the theoretical foundations of this global phenomenon. Beginning in the South Bronx in New York City in the 1980s, Hip Hop transcended racial and geographic boundaries becoming a model cultural phenomenon that is evident in Europe, Africa, Asia, the Caribbean, Latin and South America. Hence, this course traces the cultural and political history of Hip Hop and the structural conditions from which it emerges. This course is approved for General Education - Distribution 2 Social & Behavioral Sciences Prerequisite: **ENGL102 or ENGL104.**

**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.**

**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.**

**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 or ENGL104, 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.**

**HIST 445 BEER, WHISKEY, AND WINE: A HISTORY OF SPIRITS AND THEIR IMPACT ON SOCIETY** 3 sem. hrs.

This course examines and analyzes the history of alcohol production, distribution, and consumption in selected parts of the world, with special attention being paid to its impact on the socio-cultural, political, and economic aspects of life in the United States. Prerequisite: Completion of Cores 2 and 3, Junior standing or permission of instruction. **This course is approved for General Education - Distribution 2.**

**HIST475 HISTORY OF MILITARY 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 or ENGL104 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. This course is approved for General Education - Distribution 2. Prerequisite: **HIST261, HIST271, 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.**

**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.

**HISTORY, POLITICS,  
LANGUAGES, AND CULTURES****HPLC100 DISASTERS AND  
CATASTROPHES: CRISIS  
IN A GLOBAL CONTEXT 3 sem. hrs.**

In this interdisciplinary course learners examine and reflect on selected catastrophes and disasters in all their connotations and their effects, immediate and long-term from cultural, historical, and political perspectives. This course is approved for General Education: Core 2 World Civilizations

**- I -****INDIVIDUALIZED STUDIES****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.

**INTELLIGENT ENTERPRISE****IENT300 ERP INTEGRATED  
BUSINESS PROCESS 3 sem. hrs.**

This course will explore the concepts of the enterprise structure and organizational data, master data, transactional data, business scenarios and processes, and business process integration points. Understanding the integration points between business processes is critical to properly set up and maintain the Enterprise Resource Planning (ERP) system. Such an example is the integration between the Order to Cash post goods issue transaction and the results for Financial Accounting and Inventory Management. Prerequisites: ACCT215 and BUAD320.

**IENT305 ERP CONFIGURATION 3 sem. hrs.**

This course will explore the concepts and tools for configuration and customization of the Enterprise Resource Planning (ERP) system to meet the enterprise's business requirements. Configuration and customization allows the enterprise to ensure the ERP system's end state design properly reflects the enterprise's organizational structure, master data and business process requirements. The fulfillment scenario configuration is used to create and maintain the organizational, master data and business processes which leverages the ERP standard functionality. Prerequisites: ACCT215, BUAD320, and IENT300. IENT300 may be taken as a co-requisite.

**IENT310 ENTERPRISE SYSTEMS  
IMPLEMENTATION 3 sem. hrs.**

Students will learn how to implement commercial off-the-shelf enterprise resource planning (ERP) systems. These enterprise systems implementations have a 30+ year history of being extremely difficult to implement on time, on budget and meet the business requirements. The Accelerated SAP (ASAP) implementation methodology will introduce the students to the phases and key concepts, terms, tools, and stakeholders to successfully implement an ERP system. The ASAP implementation methodology and tools are transferrable to other project management and organizational methodologies for Commercial Off-the-Shelf (COTS) implementations. This implementation methodology is aligned with the Project Management Institute's (PMI) standards for the project management discipline. Prerequisites: ACCT215, BUAD320, IENT300. IENT300 may be taken as a co-requisite

**IENT315 BUSINESS  
ANALYTICS 3 sem. hrs.**

This course will cover basic data analytics with a practical perspective using an approach through theory and applications using industry tools. Such tools may include SAP Analytics Cloud, SAP Lumira and Microsoft Excel. Topics include data, data mining, business intelligence, visualizations, big data, predictive modes, and more to prepare insights and support decision making. Prerequisites: ACCT215, STAT260, BUAD320, IENT300. IENT300 may be taken as a co-requisite.

**IENT400 ENTERPRISE SYSTEMS  
TECHNOLOGIES AND  
DIGITAL  
TRANSFORMATION 3 sem. hrs.**

This course will explore and provide an orientation to Design Thinking methodology, state-of-the-art technologies for running enterprise systems and digital transformation. These technologies may include SAP Build, SAP S/4HANA, SAP Fiori, SAP Personas, SAP Solution Manager, SAP NetWeaver, Reporting and Analytics, cloud computing, and cloud solutions such as Ariba, Concur, Fieldglass, Hybris, and SuccessFactors. Digital transformation explores how the internet of things' (IOT) capabilities transforms your business and competition. Prerequisites: ACCT215, BUAD320, IENT300

## - J -

**JOURNALISM****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.

**JOUR209 MEDIA AESTHETICS****3 sem. hrs.**

This course examines the theoretical assumptions of sight, sound, and motion as applied to the design of communication products for various media formats. Within the course, strategies for creative composition are demonstrated. The psychological and physiological implications of images are discussed. It will also foster creative and critical thinking as students discuss and practice mobile media production and contemporary delivery methods. Prerequisite: **ENGL 101**. This course is approved for General Education-Distribution 1.

**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.

**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. Students may take this course for 3 credit hours up to four (4) times for a maximum of 12 credit hours. 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. Students may take this course for 3 credit hours up to four (4) times for a maximum of 12 credit hours. 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. Students may take this course for 3 credit hours up to four (4) times for a maximum of 12 credit hours. Prerequisite: **Sophomore standing and permission of instructor.**

**JOUR340 MEDIA AND AUDIENCE****3 sem. hrs.**

This course introduces students to media-related research and analytical methods. The focus is on the interpretation and application of relevant and representative data dealing with media content, delivery, audiences and effects. Additional emphasis will be on the application and use of research in professional media settings, such as electronic, print and digital media, as well as in journalism, advertising, public relations, and public campaigns. Prerequisite: **JOUR 216**

**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.**

**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: **JOUR 364** or **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**.

**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** or **JOUR307**.

- L -

**LATIN AMERICAN STUDIES****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.

**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.



## LEADERSHIP STUDIES

### LEAD202 INTRODUCTION TO LEADERSHIP STUDIES 3 sem hrs

This course serves as an introduction to the field of leadership studies. Students are introduced to the theories, concepts and models that underpin the study of leadership across disciplines to better understand their role in leadership on campus, in their chosen career field, and within society. This course is approved for General Education Core 4: Human Behavior.

## LIBRARY

### 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.

## - M -

## MANAGEMENT

### 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: **Sophomore or higher class standing.**

### 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: 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: 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: ECON220 and MGMT300.

### MGMT350 PRODUCTION OPERATIONS MANAGEMENT 3 sem. hrs.

This course describes the fundamentals of production/operations management (POM). It will discuss the importance of each area and show how the various functions fit together to make up an effective, efficient production system. Prerequisites: MGMT300.

### 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: 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: MGMT300.

## MANUFACTURING ENGINEERING TECHNOLOGY

### 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.

### 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.

### 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, ECON 215**.

**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: **MATH105 and CSCI 104 or higher**.

**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**.

## MARKETING

### **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: **ACCT220, ECON220, and either ACCT221, CSCI 104, or any discipline-specific computer competency course.**

### **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: **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: **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: **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: **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: **ACCT220, 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: **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: **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: **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: **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: **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.

### **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.

## MATERIALS SCIENCE

### MASC210 INTRODUCTION TO MATERIALS SCIENCE 4 sem. hrs.

This course applies undergraduate level physics to an understanding of materials science. The primary focus will be directed to the study of the structures, mechanical properties and defects of metals, ceramics and polymers. Electrical, optical, magnetic and thermal properties are examined including phase diagrams and transitions. Prerequisites: **PHYS 325 Moderns Physics and CHEM 241 Principles of Chemistry II.**

## MATHEMATICS

### MATH020 REMEDIAL ALGEBRA 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 INTERMEDIATE ALGEBRA 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.)

### MATH103 MATHEMATICS FOR TEACHERS OF CHILDREN I 3 sem. hrs.

In this course, students study mathematical content that elementary teachers of mathematics at any level need to know and understand. Students study number systems, set theory, and an extension of the natural numbers. Algorithms for performing operations will be developed through modeling. Various numeration systems are examined as well as number theory. 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 first course of a two-course sequence intended to prepare students for the Pennsylvania teacher certification examination. Prerequisites: **MATH 020 or acceptable placement.** This course is approved for General Education- Skills.

### 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. 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 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.

### 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 acceptable placement**

### MATH203 MATHEMATICS FOR TEACHERS OF CHILDREN II 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 second course of a two-course sequence intended to prepare students for the Pennsylvania teacher certification examination. Prerequisites: **Must have earned a “C“ or better in MATH103.** This course is approved for General Education Distribution 3, Natural Science and Mathematics.

### 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.

### 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 or MATH 107. Must have earned a “C-“ or better in all prerequisite course(s).** 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).**

**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. **Corequisite: MATH208 or MATH211.** This course is approved for General Education Distribution - Science and Mathematics 3.

**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. **Corequisite: MATH208 or MATH 211.** 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 MATH211 (Grade of C- or better).**

**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 and MATH275 (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. Must have earned a "C-" or better in all prerequisite course(s).**

**MATH342 INTRODUCTION TO OPERATIONS RESEARCH**  
3 sem. hrs.

This course introduces students to the field of Operations Research. Topics include linear programming, network optimization, integer programming, nonlinear programming, and multiobjective optimization. Prerequisites: **MATH275 and either MATH211 or MATH208. Must have earned a "C-" or better in all prerequisite course(s).**

**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: **MATH290. Must have earned a "C-" or better in all prerequisite course(s).**

**MATH 370 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: **MATH290. Must have earned a "C-" or better in all prerequisite course(s).**

**MATH381 ACTUARIAL FINANCIAL MATHEMATICS** 3 sem hrs.

This course serves as a preparation for the Society of Actuary (SOA) or the Casualty Actuarial Society (CAS) second actuarial exam, known as Exam FM (financial mathematics) or Exam 2. Emphasis is on the understanding of the fundamental concepts of financial mathematics, and how those concepts are applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flows. Topics covered include time value of money, non-life contingent annuities, loans, bonds, Macaulay and modified duration, immunization, interest rate swaps, and determinants of interest rates. Prerequisites: **MATH 211 (Grade of C- or better), FIN 300 (Grade of C- or better) or permission of instructor.**

**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. Must have earned a "C-" or better in all prerequisite course(s).**

**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. Must have earned a "C-" or better in all prerequisite course(s).**

**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 MATH290. 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. Must have earned a “C-” or better in all prerequisite course(s).**

**MATH419 CRYPTOGRAPHY AND DATA SECURITY 3 sem. hrs.**

This course provides students with knowledge of cryptography and its applications to information and security. Students will study various algorithms of cryptography and will create programs based on cryptographic algorithms. Topics will include ciphers, encryption standards, public-key cryptography, private-key cryptography, digital signatures, hash functions, and cryptanalysis. Note: students may not receive credit for both MATH419 and CSCI419. Prerequisites: **C- or better in MATH290 and CSCI130 or DSCI210.**

**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: **MATH290 (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**. Co-requisite: **MATH275. Must have earned a “C-” or better in all prerequisite course(s).**

**MATH443 OPTIMIZATION 3 sem. hrs.**

This course is an introduction to optimization. Topics to be included are unconstrained optimization, convex sets and convex functions, Broyden's method, and Karush-Kuhn-Tucker conditions. Various applications of these topics will be explored. Prerequisites: **MATH 311 and MATH 275. Must have earned a “C-” or better in all prerequisite course(s).**

**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 and MATH 270. 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 and at least one of the following : MATH 350, MATH 353, MATH 411, MATH 421. Must have earned a “C-” or better in all prerequisite course(s).**

**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.

**MEDICAL TECHNOLOGY****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 helminths 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.**

**MIDDLE LEVEL EDUCATION****MLED306 LITERACY AND THE YOUNG ADOLESCENT****3 sem. hrs.**

This course provides candidates with the opportunity to teach students in grades 4-8 to become proficient readers and writers; recognize the diverse reading needs of students across the curriculum; 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 teaching. This course will fulfill the Stage 2 Field requirement. **Prerequisite: Teacher 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 6-12****6-12 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.**

## MILITARY SCIENCE

### 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)

## MUSIC

### 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.

### 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.**)

### MUSC058 JAZZ ENSEMBLE

1 sem. hr.

The Edinboro University Jazz Ensemble is a performance organization which performs the finest jazz repertoire 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.**

### MUSC 065 CONCERT BAND

1 sem. hrs.

The Concert Band is open to all regularly enrolled students regardless of major. It performs the finest repertoire in original band music as well as orchestral transcriptions. Prerequisite: **Permission of the instructor, determined by audition.**

### 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.



**MUSC074 iPad Ensemble 1 sem. hr.**  
The iPad ensemble focuses on live performances of many and varied genres in electro-acoustic music. Members will explore new applications, works, ways of reading notation, and ways of performing. Works range from transcriptions of traditional music and premieres of works written by students and faculty. The ensemble is opened to all students and may be repeated each semester for credit.

**MUSC101 Jazz, Pop and Rock 3 sem. hrs.**  
This course provides experiences and information designed to present jazz, pop, and rock music in historical and contemporary cultural perspectives. This course is approved for General Education Core 1: Artistic Expression.

**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.

**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.

**MUSC130- Applied Music 435 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.

**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.**

**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.

**MUSC242 Country Music 3 sem. hrs.**  
This course examines the issues which influenced country music. Stylistic features of Bluegrass, Rockabilly, and Country Pop will be included, as well as investigation of musical techniques, structure, and instrumentation in country music from the early 1920's to the present. This course is for non-music majors. This course is approved for General Education: Distribution 1.

**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.

**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.

**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.

## MUSIC EDUCATION

**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. This course is for non-music majors. This course is approved for General Education: Distribution 1.

**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.**

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## NURSING

**NURS101 Introduction to Professional Nursing 1 sem. hrs.**  
This course introduces professional nursing by examining the history of nursing and the role of nursing today. Communication, cultural sensitivity, ethics, safety, and quality are emphasized. Health promotion and disease prevention are explored. Prerequisites: **None**

**NURS222 Simulation: Immersion into Practice I 3 sem. hrs.**  
This interactive elective nursing course will allow the sophomore level nursing student to become immersed in experiential learning as the student will be assigned patients and navigate care similar to that of the clinical setting. This elective will enrich the curriculum by allowing the nursing student to be exposed to clinical events that he or she may not otherwise experience. Prerequisite: NURS201

**NURS230 Nursing Assessment 2.5 sem. hrs.**  
In this course, students review the components of holistic assessment of adult clients. Health history and physical assessment are examined with a cultural context. Therapeutic communication and evidence-based practice are emphasized. The nursing process is presented as the framework for practice. **This course must be taken concurrently with Nursing 230 block (NURS 230 and NURS 231)** Prerequisites: **NURS 101, BIOL 312 or BIOL 313, and PSYC 101 or SOC 100.**

**NURS231 NURSING ASSESSMENT-CLINICAL 1 sem. hrs.**

In this laboratory course, the students demonstrate application of theory content from NURS 230. Throughout the semester, the student develops a novice level of competence in health history and physical assessment skills. **This course must be taken concurrently with Nursing 230 block (NURS 230 and NURS 231)** Prerequisites: **NURS 101, BIOL 312 or BIOL 313, and PSYC 101 or SOC 100.**

**NURS240 NURSING INTERVENTIONS 2 sem. hrs.**

This course builds on the material introduced in NURS 230/231. Nursing students are prepared to provide therapeutic nursing interventions to clinically stable adult clients with minor health deviations. The nursing process provides the framework for the student nurse to further develop as a professional nurse. **This course must be taken concurrently with Nursing 240 block (NURS 240 and NURS 241)** Prerequisites: **BIOL104, BIOL312, BIOL 313, CHEM 140, NURS 230, and NURS 231.**

**NURS241 NURSING INTERVENTIONS-CLINICAL 1 sem. hrs.**

In this laboratory course, the students demonstrate application of content from NURS 240. Throughout the semester, the student develops a novice level of competence in implementing nursing interventions. **This course must be taken concurrently with Nursing 240 course block (NURS 240 and NURS 241)** Prerequisites: **BIOL104, BIOL312, BIOL 313, CHEM 140, NURS 230, and NURS 231.**

**NURS245 BASIC NURSING CARE-CLINICAL 3 sem. hrs.**

In this clinical course, students will apply the knowledge and skills gained in coursework thus far in the nursing curriculum. Time management and critical thinking skills are developed. Assessment, therapeutic communication, prioritization, patient safety and the nursing process are emphasized in a clinical setting with stable adult clients. Prerequisites: **Nursing 240 course block (NURS 240 and NURS 241), NUHL 320, and NUHL 435.**

**NURS260 ACCELERATED-FUNDAMENTALS OF NURSING 4 sem. hrs.**

In this accelerated course, students review the components of holistic assessment of adult clients. Health history and physical assessment are examined within a cultural context. Therapeutic communication and evidence based practice are emphasized. Students are prepared to provide therapeutic nursing interventions to clinically stable adult clients with minor health deviations. The nursing process provides the framework for the student nurse to further develop as a professional nurse. **This course must be taken concurrently with NURS 261, NUHL 320 and NUHL 435.** Prerequisites: **None**

**NURS261 ACCELERATED-FUNDAMENTALS OF NURSING CLINICAL 3 sem. hrs.**

In this clinical course, the students demonstrate application of theory content from NURS260. Throughout the semester, the student develops a novice level of competence in basic nursing care. **This course must be taken concurrently with NURS 260, NUHL 320 and NUHL 435.** Prerequisites: **None**

**NURS330 ADULT HEALTH NURSING I 3 sem. hrs.**

This course builds on previous learning to provide professional nursing care to patients with common adult health problems in acute care. Emphasis is placed on clinical judgment, decision-making skills, prioritization of nursing diagnoses, and application of evidence-based practice in planning care. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with Adult Health Nursing I block (NURS 330, NURS 331)** Prerequisites: **NURS 245, NUHL 250.**

**NURS331 ADULT HEALTH NURSING I-CLINICAL 3.5 sem. hrs.**

In this clinical course, the students demonstrate application of content from NURS 330 and previous courses in an acute care clinical setting with adult patients and families. Students continue to develop communication, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with Adult Health Nursing I block (NURS 330, NURS 331)** Prerequisites: **NURS 245**

**NURS332 ADULT HEALTH NURSING I-SIMULATION 0.5 sem. hrs.**

In this laboratory course, the students will demonstrate content from NURS330 and previous courses in simulated clinical situations related to the care of adults with common health care needs. Students will provide professional nursing care and use clinical decision-making skills in a controlled and safe environment. **This course must be taken concurrently with Adult Health Nursing I block (NURS 330, NURS 331 and NURS 332)** Prerequisites: **NURS 245**

**NURS333 SIMULATION: IMMERSION INTO PRACTICE II 3 sem. hrs.**

This interactive elective nursing course will allow the junior level nursing student to become immersed in experiential learning as the student will be assigned patients and navigate care similar to that of the clinical setting. This elective will enrich the curriculum by allowing the nursing student to be exposed to clinical events that he or she may not otherwise experience. Prerequisite: **NURS202 and NURS435**

**NURS340 MATERNAL CHILD HEALTH NURSING 3 sem. hrs.**

This course builds on previous learning to provide professional nursing care to the childbearing family during ante-, intra- and post-partum stages in a variety of settings. Emphasis is placed on clinical judgment, decision-making skills, prioritization of nursing diagnoses, and application of evidence-based practice in planning care. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with Maternal Child block of courses (NURS 340, NURS 341)** Prerequisites: **NURS 245**

**NURS341 MATERNAL CHILD HEALTH NURSING - CLINICAL 1 sem. hrs.**

In this clinical course, the students demonstrate application of content from NURS 340 and previous courses to the childbearing family during ante-, intra- and post-partum stages as well as the newborn in a variety of settings. Students continue to develop therapeutic communication skills, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with Maternal Child block of courses (NURS 340, NURS 341)** Prerequisites: **NURS 245**

**NURS350 PEDIATRIC NURSING 3 sem. hrs.**

This course builds on previous learning to provide professional nursing care to children and their families in a variety of settings. Emphasis is placed on clinical judgement, decision-making skills, prioritization of nursing diagnoses, and application of evidence-based practice in planning care. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Pediatric block of courses (NURS 350, NURS 351).** Prerequisite: **NURS 245**

**NURS351 PEDIATRIC NURSING - CLINICAL 1 sem. hr.**

In this clinical course, the students demonstrate application of content from NURS 350 and previous courses to children and their families in both acute and community settings. Students continue to develop therapeutic communication skills, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Pediatric block of courses (NURS 350, NURS 351).** Prerequisite: **NURS 245**

**NURS352 MATERNAL CHILD AND PEDIATRIC NURSING-SIMULATION 0.5 sem. hr.**

In this laboratory course, the students will demonstrate content from NURS 350 and previous courses in simulated clinical situations related to the care of the childbearing family and newborn and children and their families. Students will provide professional nursing care and use clinical decision-making skills in a controlled and safe environment. **This course must be taken concurrently with the Maternal Child and Pediatric block of courses (NURS 340, NURS 341, NURS 350, NURS 351 and NURS 352).** Prerequisite: NURS 245

**NURS 360 ACCELERATED-ADULT HEALTH NURSING I 3 sem. hrs.**

This accelerated course builds on previous learning to provide professional nursing care to patients with common adult health problems in acute care. Emphasis is placed on clinical judgment, decision-making skills, prioritization of nursing diagnoses, and application of evidence-based practice in planning care. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Accelerated-Adult Health I block (NURS 361-Accelerated Adult Health Nursing I Clinical)** Prerequisites: NURS 260/261; NUHL 320 and NUHL 435.

**NURS 361 ACCELERATED-ADULT HEALTH NURSING CLINICAL 4 sem. hrs.**

In this accelerated clinical course, the students demonstrate application of theory content from previous courses in an acute care clinical setting with adult patients and families. Students continue to develop communication, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Accelerated-Adult Health block (NURS 360-Accelerated Adult Health Nursing I)** Prerequisites: NURS 260/261; NUHL 320 and NUHL 435.

**NURS 370 ACCELERATED MATERNAL CHILD HEALTH NURSING 3 sem. hrs.**

This accelerated course builds on previous learning to provide professional nursing care to the childbearing family during ante-, intra-, and post-partum stages in a variety of settings. Emphasis is placed on clinical judgment, decision-making skills, prioritization of nursing diagnoses, and application of evidence-based practice in planning care. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Maternal Child Health Block (NURS 371-Accelerated Maternal Child Health Nursing Clinical)** Prerequisites: NURS 260/261; NUHL 320 and NUHL 435.

**NURS 371 ACCELERATED-MATERNAL CHILD HEALTH NURSING CLINICAL 1 sem. hrs.**

In this accelerated clinical course, the students demonstrate application of theory content from previous courses to the childbearing family during ante-, intra-, and post-partum stages as well as the newborn in a variety of settings. Students continue to develop therapeutic communication skills, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Accelerated Maternal Child Health Block (NURS 370-Accelerated Maternal Child Health Nursing).** Prerequisites: NURS 260/261; NUHL 320 and NUHL 435.

**NURS 380 ACCELERATED-PEDIATRIC NURSING 3 sem. hrs.**

This accelerated course builds on previous learning to provide professional nursing care to children and their families in a variety of settings. Emphasis is placed on clinical judgement, decision-making skills, prioritization of nursing diagnoses, and application of evidence-based practice in planning care. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Accelerated Pediatric Block (NURS 381-Accelerated Pediatrics Clinical)** Prerequisites: NURS 260/261; NUHL 320 and NUHL 435.

**NURS 381 ACCELERATED-PEDIATRIC NURSING CLINICAL 1 sem. hrs.**

In this clinical course, the students demonstrate application of theory content from previous courses to children and their families in both acute and community settings. Students continue to develop therapeutic communication skills, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Accelerated Pediatric block (NURS 380 Accelerated Pediatrics).** Prerequisites: NURS260, NURS261, NUHL320, and NUHL 435.

**NURS400 NURSING LEADERSHIP 2 sem. hrs.**

In this course, students incorporate knowledge and skills from previous courses to explore the leadership and management roles in professional nursing. Critical thinking, effective communication, conflict management, successful delegation, accountability, team-building, and quality improvement are emphasized. Issues related to healthcare delivery, advocacy, evolving healthcare systems, organizational structure, quality improvement, financial management, and supervision are examined from a theoretical and practical perspective. Prerequisites: **Adult Health Nursing I block (NURS 330, 331, 332), Pediatric Nursing block (NURS 350, 351, 352), and Maternal Child Health Nursing block (NURS 340, 341, 352)**

**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.

**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 3 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 RESEARCH AND  
EVIDENCE BASED  
PRACTICE 3 sem. hrs.**

This course emphasizes the elements of evidence-based practice in nursing. Students identify clinical questions and search and appraise evidence. Based on the findings, implementation and evaluation of practice changes are explored. Evidence-based practice is presented as the foundation for integrating existing evidence with clinical judgement and patient preferences to provide safe, quality nursing care. Prerequisite: **STAT 260**

**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.**

**NURS431 ADULT HEALTH  
NURSING II – CLINICAL  
2 sem. hrs.**

In this clinical course, the students demonstrate application of content from NURS 433 and previous courses in an acute care clinical setting with adult patients and families facing complex illness. Students continue to develop communication, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with the Adult Health Nursing II block (NURS 430, NURS 431).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), Maternal Child Health Nursing block (NURS 340, 341), NUHL 250, NUHL 320, NUHL 435.**

**NURS432 ADULT HEALTH  
NURSING II –  
SIMULATION 0.5 sem. hrs.**

In this laboratory course, the students will demonstrate content from NURS 433 and previous courses in simulated clinical situations related to the care of adults with complex illness. Students will provide professional nursing care and use clinical decision-making skills in a controlled and safe environment. **This course must be taken as part of the Adult Health Nursing II block (NURS 433, NURS 431).** Prerequisites: **Adult Health I course block (NURS 330, 331); Maternal Child course block (NURS 340, 341); and Pediatrics course block (NURS 350, 351).**

**NURS433 ADULT HEALTH  
NURSING II 2 sem. hrs.**

In this course, students apply knowledge from previous courses to develop an evidence-based approach to professional nursing care for hospitalized adults facing complex illness or life-threatening events. Synthesis of pathophysiologic, pharmacologic and therapeutic concepts is required. The role of the nurse in inter-professional health care teams is emphasized. **This course must be taken as part of the Adult Health Nursing II block (NURS 433, NURS 431).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), and Maternal Child Health Nursing block (NURS 340, 341).**

**NURS440 COMMUNITY HEALTH  
NURSING 2 sem. hrs.**

In this course, students apply knowledge from previous courses to develop an evidence-based approach to professional nursing care in the community. Health promotion, risk reduction and disease management will be analyzed using clinical judgement and the nursing process to provide care to individuals, families, population groups, and communities. The impact of political, economic, social, environmental, and cultural concerns on the health of populations is examined. **This course must be taken concurrently with the Community Health Nursing block (NURS 440, NURS 441).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), and Maternal Child Health Nursing block (NURS 340, 341).**

**NURS441 COMMUNITY HEALTH  
NURSING – CLINICAL  
1 sem. hr.**

In this clinical course, students demonstrate application of content from NURS 440 and previous courses in community health settings. Students build on their knowledge and skills to develop a broader perspective on the professional nurse role in the community. **This course must be taken concurrently with the Community Health Nursing block (NURS 440, NURS 441).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), and Maternal Child Health Nursing block (NURS 340, 341)**

**NURS444 SIMULATION:  
IMMERSION INTO  
PRACTICE III 3 sem. hrs.**

This interactive elective nursing course will allow the senior level nursing student to become immersed in experiential learning as the student will be assigned patients and navigate care similar to that of the clinical setting. This elective will enrich the curriculum by allowing the nursing student to be exposed to clinical events that he or she may not otherwise experience. Prerequisite: **NURS301, NURS302, and NURS305**

**NURS451 PSYCHIATRIC & BEHAVIORAL HEALTH NURSING – CLINICAL**

**1 sem. hr.**

In this clinical course, students demonstrate application of content from NURS 453 and previous courses in acute and community mental health settings. Students build on their knowledge and skills to develop a broader perspective on the use of therapeutic use of self in promoting maximum levels of behavioral, physical, and spiritual health in individuals and their families. **This course must be taken concurrently with the Psychiatric & Behavioral Health Nursing block (NURS 453, NURS 451).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), and Maternal Child Health Nursing block (NURS 340, 341).**

**NURS452 COMMUNITY & PSYCHIATRIC/ BEHAVIORAL HEALTH – SIMULATION 0.5 sem. hr.**

In this laboratory course, the students will demonstrate content from NURS 440, NURS 453 and previous courses in simulated clinical situations related to the care of patients and families in the community as well as psychiatric and behavioral health settings. Students will provide professional nursing care and use clinical decision-making skills in a controlled and safe environment. **This course must be taken as part of the Behavioral Health Nursing block (NURS 453, NURS 451).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), and Maternal Child Health Nursing block (NURS 340, 341).**

**NURS453 PSYCHIATRIC & BEHAVIORAL HEALTH NURSING 3 sem. hrs.**

In this course, students apply knowledge from previous courses to develop an evidence-based approach to professional nursing care in both acute and community psychiatric and behavioral health settings. Patients include children, adolescents and adults with mental health problems and coping deficits. Emphasis is placed on psychological development, psychopathology, patient education, treatment modalities and therapeutic nurse-patient relationships. **This course must be taken concurrently with Psychiatric & Behavioral Health Nursing block (NURS 450, NURS 451 ).** Prerequisites: **Adult Health Nursing I block (NURS 330, 331), Pediatric Nursing block (NURS 350, 351), and Maternal Child Health Nursing block (NURS 340, 341).**

**NURS472 ACCELERATED- COMMUNITY HEALTH NURSING CLINICAL**

**1 sem. hrs.**

In this clinical course, students demonstrate application of theory content from previous courses in community health settings. Students build on their knowledge and skills to develop a broader perspective on the professional nurse role in the community. **This course must be taken concurrently with the Accelerated Community Health Block (NURS440 Community Health Nursing)** Prerequisites: **Accelerated Adult Health Nursing I block (NURS 360, 361), Accelerated Pediatric Nursing block (NURS380, 381), Accelerated Maternal Child Health Nursing block NURS370, 371)**

**NURS 480 ACCELERATED-ADULT HEALTH NURSING II**

**2 sem. hrs.**

In this accelerated course, students apply knowledge from previous courses to develop an evidenced-based approach to professional nursing care for hospitalized adults facing complex illness. Synthesis of pathophysiologic, pharmacologic and therapeutic concepts is required. The role of the nurse in inter-professional health care is emphasized. **This course must be taken concurrently with the Accelerated Adult Health II block (NURS 481 Accelerated Adult Health Nursing II Clinical).** Prerequisites: **Accelerated Adult Health Nursing I Block (NURS360,361) Accelerated Pediatric Nursing Block (NURS380,381), Accelerated Maternal Child Health Nursing Block (NURS370,371)**

**NURS 481 ACCELERATED- PSYCHIATRIC AND BEHAVIORAL HEALTH CLINICAL 1 sem. hrs.**

In this clinical course, students demonstrate application of theory content from previous courses in acute and community mental health settings. Students build on their knowledge and skills to develop a broader perspective on the use of therapeutic use of self in promoting maximum levels of behavioral, physical, and spiritual health in individuals and their families. **This course must be taken concurrently with the Accelerated Psychiatric/Behavioral Health block (NURS450 Psychiatric/Behavioral Health Nursing).** Prerequisites: **Accelerated Adult Health Nursing I block (NURS 360, 361), Accelerated Pediatric Nursing block (NURS380, 381), Accelerated Maternal Child Health Nursing block NURS370, 371)**

**NURS 483 ACCELERATED-ADULT HEALTH NURSING II CLINICAL 3 sem. hrs.**

In this clinical course, the students demonstrate application of theory content from NURS430 and previous courses in an acute care clinical setting with adult patients and families facing complex illness. Students continue to develop communication, clinical and professional judgement as a patient/family advocate. Health problems are approached using a nursing framework to deliver safe, quality care to individuals and their families. **This course must be taken concurrently with NURS 480 Accelerated Adult Health Nursing II** Prerequisites: **Accelerated Adult Health Nursing I Block (NURS360,361) Accelerated Pediatric Nursing Block (NURS380,381), Accelerated Maternal Child Health Nursing Block (NURS370,371)**

**NURS498 NURSING CAPSTONE 2.5 sem. hrs.**

This *experiential learning* course engages students in application, synthesis and evaluation of knowledge and skills obtained in their academic studies. The course also provides the opportunity to begin transition from student to graduate nurse. Professional growth and contribution to the nursing profession is emphasized. Students complete a 112 hr clinical practicum with a Registered Nurse preceptor and develop an evidence-based project related to their clinical experience. Prerequisites: **Specialty course blocks related to the specialty chosen. For example, if the capstone is in behavioral health nursing, the Psychiatric/Behavioral Health block must have been completed.**

**NURSING HEALTH**

**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**.

**NUHL250 HEALTH PROMOTION A CROSS THE LIFE SPAN 3 sem. hrs.**

This course examines the role of the health care professional in health promotion across the life span. Health promotion, risk reduction and disease prevention will be explored in the context of current evidence-based practice. Environmental, sociocultural, and economic factors that influence health care practices are emphasized. Prerequisites: **PSYC 317 and PSYC 31**

**NUHL320 PHARMACOLOGY 3 sem. hrs.**

This course presents the principles of pharmacotherapeutics. Specifically, this course addresses drug safety, classification, mechanisms of actions, interactions, side/adverse effects, contraindications and follow-up responsibilities. Designed to meet the needs of students enrolled in nursing and health-related majors, the collaborative roles and responsibilities of the interprofessional health care team members are emphasized. Prerequisites: **CHEM 140 or CHEM 240, BIOL 312 or BIOL 340, and BIOL 313 or BIOL 341. For Nursing Majors, this course is to be taken concurrently with NURS 435.**

**NUHL333 GLOBAL HEALTH 3 sem. hrs.**

This course explores historical and present global health issues including interventions. Content integral to the process is the consideration of ethics, culture, environment, economics and governmental factors and their role on the health of cultures, countries and the world. Prerequisite: **SOC 100**. This course is approved for General Education-Distribution 2.

**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.

**NUHL435 PATHOPHYSIOLOGY 4 sem. hrs.**

Pathophysiology is the study of disruption of homeostasis in the human body. This interprofessional course provides an in-depth study of alterations in physiological, cellular and biochemical processes that manifest as disease for students interested in healthcare. Emphasis is on the inter-relationships among organ systems. Content builds upon knowledge from basic sciences to facilitate transfer of knowledge to clinical practice. Prerequisites: **CHEM 140 or CHEM 240, BIOL 312 or BIOL 340, and BIOL 313 or BIOL 341. For Nursing Majors, this course is to be taken concurrently with NURS320.**

**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.

**NUTRITION****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 -

**ORGANIZATIONAL STUDIES****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 -****PERSONAL FINANCIAL PLANNING****PFP360 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: **MATH 104** (or higher). Formerly FIN360

**PFP410 PERSONAL FINANCIAL PLANNING PROFESSION 3 sem hrs.**

This course focuses on the history, business models, professional certifications, education, career opportunities, and professional skills associated with the personal financial planning profession. Prerequisite: **Sophomore or higher class standing**.

**PFP430 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: **Sophomore or higher class standing**.

**PFP440 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: **Sophomore or higher class standing**

**PFP475 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: **PFP360, FIN400, ACCT330, PFP430, PFP440, and either ENGL102 or ENGL104, or permission of the instructor**. Formerly FIN475

**PHILOSOPHY****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.

**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: **ENGL102 or ENGL104 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: **ENGL102 or ENGL 104 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.

**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 or ENGL104 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. Prerequisite: **ENGL102 or ENGL104 or permission of instructor.**

**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: **ENGL102 or ENGL104 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: **ENGL102 or 104 or permission of instructor.** 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.

**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. Prerequisite: **ENGL102 or ENGL104 or permission of instructor.**

**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. Prerequisite: **ENGL102 or ENGL104 or permission of instructor.**

**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: **ENGL102 or ENGL104 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: Prerequisite: **ENGL102 or ENGL 104 or permission of 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. Prerequisite: **ENGL102 or ENGL104 or Permission of 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 MATH 203 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: **ENGL102 or ENGL104 or Permission of the Instructor.**

**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.

Graduate courses at the 600 level may be taken by undergraduates for undergraduate credit with permission of the dean of the student’s major.

**PHYSICS****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****2 sem. hrs.**

This course introduces the students of physics, engineering, and related areas to the processes involved in problem solving including analytical and computer related techniques. Elements of career orientation are included as part of the course. Prerequisites: **Concurrent enrollment in MATH 107 Pre-Calculus (or higher), or permission of instructor.**

**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**

**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.

**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, and concurrent enrollment in **MATH 311.** 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.**

**PHYS415 SOLID STATE PHYSICS**  
3 sem. hrs.

This course applies undergraduate-level physics to solid state systems. Primary topics will include crystal structure, Bravais lattice, diffraction, lattice vibrations, surface physics, free electron gas model, band theory, semiconductors, dielectric/optical, thermal properties of solids and magnetism. Prerequisites: **PHYS325**.

**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** or permission of the instructor.

**PHYS421 MECHANICS II** 3 sem. hrs.  
A continuation of **PHYS420**.**PHYS425 ASTROPHYSICS I**  
3 sem. hrs.

This course applies undergraduate level physics to astrophysical processes. The primary focus is the description and modelling of stars throughout their life cycle from birth to death. An appropriate introduction to the virial theorem, telescope optics, general relativity and the physics of degenerate matter will be introduced as necessary. Prerequisites: **PHYS 271 Frontiers of Astronomy is recommended but not required prior to taking this course. PHYS 420 Mechanics I or PHYS 430 Electricity and Magnetism I.**

**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 Schroedinger 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** or permission of instructor.

**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.**POLISH****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.

**POLITICAL SCIENCE****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.

**POLI114 CANNABIZ POLICY AND COMPLIANCE 3 sem. hrs.**

This course introduces students to federal and state Cannabis policy as well as specific regulation and modes of compliance for the Cannabis Industry. Students will gain an understanding of the industry as a whole, and will learn about the opportunities and challenges the industry faces due to multiple legal contexts throughout the U.S. Specific for students seeking to enter the Cannabis workforce, this course provides a detailed state specific regulatory module focused on compliance for Growers, Processors, and Dispensaries.

**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; STAT260; either POLI101, POLI102, or POLI103; or permission of 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.**

**POLI304 POLITICS AND POPULAR CULTURE 3 sem hrs**

This course examines the effects of various forms of popular culture on politics within and across societies. Students will use their own experiences as consumers of popular culture as a foundation for exploring the roles played by mass-mediated popular culture in people's political lives. Students will also examine various approaches to analyzing politics. Prerequisite: **any one of the following: POLI 100, POLI 101, POLI 102, or POLI 103**

**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 ELECTIONS 3 sem. hrs.**

This course examines the structure and dynamics of political elections in the United States. Major topics include the electoral process, political parties, political campaigns, and voter behavior. Prerequisite: **POLI 100 or POLI 101.**

**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.

**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, decision making 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 RUSSIAN POLITICS 3 sem. hrs.**

This course examines Russian politics, with emphasis on the global issues and domestic influences that shape policy. Topics include the historical background of the contemporary Russian government, polity, and society; the constitutional order; the economic system; relationships of the country's peoples to its government; the informal hierarchies; and the influences that go into making and executing its foreign policies. Prerequisites: **POLI 100, POLI101, POLI102** or **POLI 103, or permission of the instructor.**

**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.

**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.

**POLI360 PRACTICUM IN COURTROOM ADVOCACY 3-9 sem. hrs.**

This practicum in courtroom advocacy will introduce students to the rules of evidence, courtroom practice and procedure, and the trial process. Each student will participate in simulated trial exercises and will be required to demonstrate the ability to extract the essence of legal issues, present concise and well-reasoned arguments in support of their positions, and make effective legal presentations. Students may take the course for three (3) credit hours up to three (3) times for a maximum of nine (9) credit hours. Prerequisite: Sophomore standing; **POLI 101** or **CRIM 100**; or permission of instructor.

**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.****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.**

**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.

**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.

**PSYCHOLOGY****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.

**PSYC105 CAREERS IN PSYCHOLOGY 3 sem. hrs.**

This course focuses on introducing psychology majors to the broad range of career opportunities related to psychology. Students will explore personal interests and skills developed in the major that relate to career options with a bachelor's degree and career options that would require graduate school.

**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.

**PSYC114 MEDICAL CANNABIS 3 sem. hrs.**

This course introduces students to uses of medical cannabis, and how cannabis and related drugs work in the human body. Students will compare the benefits and risks of cannabis and related drugs in a wide range of medical conditions. Students will also learn to critique and contrast different kinds of health research, in order to make unbiased judgments about cannabis in medicine.

**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) 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 (or higher) 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: **"C-" grade or better** in both **PSYC225 and ENGL 102 (or equivalent)**. This course is approved for General Education - Computer Competency.

**PSYC275 ANIMAL ASSISTED THERAPY****3 sem. hrs.**

This course will assist students in understanding the therapeutic relationship between humans and animals. The nature of the human-animal bond will be explored as well as its use in therapy for special populations. The course will also explore important considerations for the animal itself, as well as current research on animal-assisted therapy. Prerequisite: PSYC101

**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 with a "C-" grade or better.**

**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 with a "C-" grade or better.** 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 with a "C-" grade or better.** 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 with a "C-" grade or better.** 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 with a "C-" grade or better.** 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 with a "C-" grade or better.** 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 with a "C-" grade or better.** 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 with a "C-" grade or better.**

**PSYC345 BRAIN AND BEHAVIOR****3 sem hrs.**

Students will learn the general principles of cellular communication, as well as the organization and function of the nervous system, for purposes of gaining a greater understanding of the biological processes that regulate complex behaviors. Topics covered include drug abuse and dependency, sexual behaviors, sleep, learning and memory, hunger and feeding, and psychiatric disorders. Prerequisites: **PSYC 101 with a "C-" grade or better.**

**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 with a "C-" grade or better.** 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 with a "C-" grade or better.** 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 with a "C-" grade or better.**

**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 with a "C-" grade or better.**

**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 with a "C-" grade or better.** 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 with a "C-" grade or better.**

**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 with a "C-" grade or better.**

**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 with a "C-" grade or better.**

**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 with a "C-" grade or better.**

**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 with a "C-" grade or better.**

**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 with a "C-" grade or better.** This course is approved for General Education Distribution 2.

**PSYC395 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 with a "C-" grade or better 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 with a "C-" grade or better 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: **PSYC227 with a "C-" or better and permission of instructor.**

**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 with a "C-" grade or better.**

**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: **PSYC101 with a "C-" grade or better.**



**PSYC425    ADVANCED TOPICS IN  
BEHAVIORAL  
NEUROSCIENCE****3 sem. hrs.**

This capstone course reviews structure and function of the nervous system, for the purpose of addressing modern and historical problems, issues, and developments in the field of neuroscience. Students learn from original research sources in neuroscience and related fields, in order to provide advanced analysis of topics of importance. Prerequisites: **PSYC 345 or permission of the instructor.**

**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 with a "C-" grade or better 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  
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.**

**PSYC496    SEMINAR IN****PSYCHOLOGY****3-9 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 with a "C-" grade or better and permission of instructor.**

**PUBLIC RELATIONS****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.

**PR298        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 U.S. 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. Students may only take one of the following: COMM298, JOUR298 or PR298.

**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        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: **PR265 or Permission of Instructor, Graduate status for 600 level enrollment.**

**PYMATUNING****PYMA405    WETLAND ECOLOGY  
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: **BIOL230 and BIOL240 or permission of the instructor.**

**PYMA410    ECOLOGY OF FUNGI****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: **BIOL230 and BIOL240 or permission of the instructor.**

**PYMA420 FOREST ECOLOGY****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: **BIOL230 and BIOL240 or permission of the instructor.**

**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: **BIOL230 and BIOL240 or permission of the instructor.**

**PYMA430 ECOPHYSIOLOGY****3 sem. hrs.**

Earth's creatures inhabit nearly all its varied habitats. Deserts, rainforests, grasslands, and tundra all present unique challenges to organisms to survive. The ecophysiology course taught at PLE will cover the adaptations of animals to deal with specialized environmental situations across a spectrum of biological levels (biochemical to the organismal). How does the wood frog survive the Arctic circle? How does that mouse survive without water? Thermal relations, water balance, and bioenergetics are all major topics covered in the course. Prerequisites: **BIOL230 Botany and BIOL240 Zoology or BIOL155 or permission of instructor.**

**PYMA433 FIELD BOTANY****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: **BIOL230 and BIOL240 or permission of the instructor.**

**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. Prerequisite: **BIOL230 and BIOL240 or permission of the instructor.**

**PYMA462 FIELD TECHNIQUES IN ECOLOGY AND CONSERVATION****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: **BIOL230 and BIOL240 or permission of the instructor.**

**PYMA90 DISEASE ECOLOGY****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: **BIOL400 or permission of the instructor.**

**- Q -****QUANTITATIVE ANALYSIS****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: **STAT260 and either ACCT221 or CSCI104.**

**- R -****READING****READ424 INTRODUCTION TO DYSLEXIA AND DYSLEXIA INTERVENTION****3 sem. hrs.**

This course examines the topic of dyslexia as a language-based learning disability that is neurobiological in origin. The course will compare and contrast the behaviors, characteristics, and brain-based processes that typically and atypically developing readers exhibit while listening, speaking, reading writing, and spelling. Characteristics of effective intervention programs will be examined. Related conditions and assistive technology will also be discussed. Prerequisite: **Sophomore standing or higher.**

**READ425 FUNDAMENTALS OF PHONICS AND ENGLISH LANGUAGE STRUCTURE****3 sem. hrs.**

This course focuses on foundational knowledge needed to effectively teach phonics, grammar, reading comprehension, and writing composition to school-age students. The sound-symbol correspondences of the English alphabetic code, common orthographic patterns, and the origins of the English language will be examined. Semantic organization, discourse patterns, and common text structures are also explored. Prerequisite: **READ major or minor.**

**READ427 PRINCIPLES OF STRUCTURED LANGUAGE TEACHING****3 sem. hrs.**

This is the first of two practicum courses that develop candidates' proficiency in administering direct, explicit, structured, and sequential reading instruction to a student that exhibits dyslexic traits. Candidates gain experience in administering and interpreting a screening assessment, and administering a research, and evidence based reading program that emphasizes intense intervention in decoding and spelling. Prerequisites: **READ/SPED 424 and READ minor or permission of instructor.**

**READ428 PRINCIPLES OF STRUCTURED LANGUAGE TEACHING II****3 sem. hrs.**

This is the second of two practicum courses that develop candidates' proficiency in administering direct, explicit, structured, and sequential reading instruction to a student that exhibits dyslexic traits. Candidates gain experience in administering and interpreting assessment data, and administering a research, and evidence based reading program that emphasizes intense intervention in decoding and spelling. Prerequisites: **READ/SPED 427 and READ major or minor or permission of instructor.**

**- S -****SECONDARY EDUCATION****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.

**SEDU283 TECHNOLOGY FOR TEACHING AND LEARNING** 3 sem. hrs.

This course is an educational technology course for teacher candidates. Participants will explore a variety of educational technology tools, issues, approaches, strategies and resources for teaching and learning. The content is based on the International Society and Technology in Education (ISTE) standards. Prerequisite: **SEDU271** This course is approved for General Education: Computer Competency.

**SEDU300 URBAN SEMINAR**  
3 sem. hrs.

This course is designed to provide first-hand experience in an urban, multicultural setting where teacher education majors will have the 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 Clearances**

**SEDU306 CONTENT LITERACY IN THE MIDDLE AND SECONDARY SCHOOL**  
3 sem. hrs.

This course provides candidates with the opportunity to use reading and writing as a tool for learning content. Candidates will learn about the diverse reading needs of students across the curriculum, differentiate instruction to meet the needs of learners 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 provides a Stage 2 Field requirement. **Prerequisite: Teacher Candidacy**

**SEDU350 THEORIES AND PRACTICES IN SECONDARY SCHOOLS**  
3 sem. hrs.

The purpose of this course is to bridge the gap between theory and 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 impact of developmental characteristics of adolescents on instruction, PA Core and content standards, transition issues, and grade level characteristics. This course fulfills Stage 2 Field Experience. Prerequisite: **SEDU 271; Co-Requisite SEDU 360.**

**SEDU360 DEVELOPMENTALY APPROPRIATE SECONDARY LEVEL FEATURES AND INSTRUCTIONAL PRACTICES** 3 sem hrs

Adolscence, the transitional state of human development that generally occurs from the onset of puberty to adulthood requires developmentally appropriate pedagogical skills. This course examines the skill set and pedagogical approaches to teaching and learning during this developmental time. There are specific elements associated with successful teaching for this age group. This includes interdisciplinary teaching, teaming and planning, differentiated instruction, learning communities, community involvement and others. This course fulfills Stage 2 Field Experience. This course is approved for General Education Distribution 2 Social & Behavioral Sciences. Prerequisite: **Teacher Certification students only (SEDU or Content with Teacher Certification), Psychology 101 and permission of the instructor. Corequisite: SEDU350**

**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.**

**SEDU401 DIVERSE PERSPECTIVES IN EDUCATION** 3 sem hrs.

This course provides an intensive investigation into school systems and organizations. Students actively learn about and participate in the lives and communities of the visited area. This course provides participants an opportunity to gain understanding and appreciation of cultural, economic, ethnic, racial and social differences through work in a diverse community or through investigating other educational systems. This course includes a carefully planned mix of work in schools, community service and cultural experiences. Through investigation, working within the community and structured reflection students will gain a more global perspective. Prerequisite: **Clearances and application.**

**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**.

**SOCIAL SCIENCES****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.

**SOCIAL WORK****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: **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, SOWK115, SOWK250**.

**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, Social Work Minor, 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 2-9 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 3-12 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**.

**SOCIOLOGY****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.

**SOC114 CANNABIZ POLICY AND COMPLIANCE 3 sem. hrs.**

This course introduces students to federal and state Cannabis policy as well as specific regulation and modes of compliance for the Cannabis Industry. Students will gain an understanding of the industry as a whole, and will learn about the opportunities and challenges the industry faces due to multiple legal contexts throughout the U.S. Specific for students seeking to enter the Cannabis workforce, this course provides a detailed state specific regulatory module focused on compliance for Growers, Processors, and Dispensaries.

**SOC120 SOCIOLOGY OF GLOBALIZATION 3 sem hrs.**

This course introduces students to the sociological study of globalization. Global patterns and processes, or globalization, is an increasing influence on people, groups, and social institutions around the world. A wide range of topics and issues will be explored in this class including: theories of globalization, the global economy, globalization and culture, global inequality, threats to the environment, global communications, globalization and gender/race/ethnicity/class, and social movements and social change. The various social, cultural, political, and economic effects of globalization are the subject of much research and debate and will be explored from a range of theoretical, political, and economic perspectives. This course is approved for General Education-Core 2.

**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.

**SOC240 ANIMALS IN SOCIETY: SOCIAL AND ETHICAL CONSIDERATIONS****3 sem hrs.**

This course examines how human society is structured through interaction with non-human animals. General topics include how human society has classified animals and why, how humans have exploited animals to meet their own needs, and a wide-ranging consideration of ethical issues surrounding the use of animals for human purposes. The content of the course is grounded in functionalist theory, conflict theory, symbolic interactionism, and critical sociology. Additionally, this course will examine how a socially constructed view of animals and animal control practices reinforces and perpetuates stratification rooted in inequalities such as racism, sexism, disability, and social class. This course is approved for General Education-Core 6.

**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 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**.

**SOC280 INTRODUCTION TO HUMAN SERVICE AND COMMUNITY ORGANIZATIONS****3 sem. hrs**

This course introduces students to sociological practice in Human Service and Community Organizations. Students will learn about varying organizational structures including services provided, policies, sources of funding, and ethics of professional practice. Students will explore the diverse forms of professional applied sociological practice and be introduced to research-based interventions to affect change at organizational and community levels. Students will be introduced to modes of advocacy, lobbying, networking, service coordination, and needs based program assessment.

**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 AND RURAL COMMUNITIES** **3 sem. hrs.**

This course will emphasize the study of urban and rural communities and the role that they play in contemporary American society. It will focus on the social, cultural, economic, and political aspects of the changing realities of the urban/rural divide, as well as the interaction among cities, suburbs, small towns, and villages. Included will be the historical development of the city and countryside in other parts of the world and the impact of urban and rural values on 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 GENDER** **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 FAMILY AND INTIMATE RELATIONSHIPS 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 YOUTH AND SOCIETY 3 sem. hrs.**

This course is designed to introduce students to the sociological study of children and youth. Students will explore the various processes and cultural practices of socialization through which youth are expected to learn the ways of adult society. In addition to learning about theories concerning children and adolescents and the methods used to study them, focus will be placed on how different agents of socialization-including the family, peer groups, the education system, and the media- shape contemporary childhood and adolescence. The course will also place emphasis on the agency of youth, children's influence over adults, personality and identity development, and how ethnicity, race, class, gender, sexuality as well as structural forces in society shape the intimate experiences of children and adolescents. This course incorporates the Sociology of Childhood perspective, which, rather than assuming that children are passive participants, starts from the assumption that children are active participants who both shape and are shaped by their social world. 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 CLASS, WORK, AND SOCIETY 3 sem. hrs.**

This course acquaints the student with the sociological aspects of social class and work organizations in contemporary societies. Topics of interest include class, leisure, social control, value systems, occupational stratification, and social structures. An emphasis will be placed on the relationship of the work place to the community in pre- and post-industrialized societies from a theoretical and practical point of view. Students who complete this course will have a better understanding of the social significance of industrial and service employment. Prerequisite: **SOC100 or permission of the instructor**. This course is approved for General Education-Distribution 2-Behavioral and Social Sciences.

**SOC350 HEALTHCARE AND SOCIETY 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 healthcare, challenges to biomedical authority and expertise, the work sites in which healthcare practice is articulated, the role of sociology in medical research and the future of health care in a changing global society. Prerequisite: **SOC100 or permission of the instructor**. This course is approved for General Education-Distribution 2-Behavioral and Social Sciences.

**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**.

**SOC380 SOCIAL ACTION AND COMMUNITY ORGANIZING 3 sem. hrs.**

This course provides the foundation for students interested in social action to explore the relationship between community development and community organizing. Students are exposed to a range of ideas, strategies, tactics, and perspectives on community organizing and empowerment. They will understand framing, campaigning, overcoming internalized oppression, and mobilizing for change. In addition, the course will address community power, social networks, popular education, participatory and action research, and community development as professional practice. Prerequisite: **SOC100 or permission of the instructor**. This course is approved for General Education-Distribution 2 - Social and Behavioral Sciences.

**SOC385 DISABILITY STUDIES 3 sem. hrs.**

This course is designed to introduce students to the sociological study of disability. Students will critically deconstruct the social, cultural, moral and political meanings attached to contemporary understandings of disability. A wide range of topics and issues confronting people with disabilities will be explored including: cultural representations of disability and ability, historical treatment of disability, deinstitutionalization and community integration, disability law and policy, family and community support services, media images of disability, and the ways in which the social status of disability is related to other forms of social inequality and difference. 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.

**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.

**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**

**SOC480 PROGRAM EVALUATION 3 sem. hrs**

This course acquaints the student with the theoretical and practical aspects of contemporary program evaluation. Topics of interest includes types of evaluation (process versus outcome), purposes of evaluation, planning an evaluation, evaluation design, developing measures, collecting and analyzing data, report writing and disseminating results, using experiments for evaluation, analysis of costs and outcomes, qualitative methods, roles for the evaluator, and ethical challenges of evaluation. A special emphasis will be placed on the relationship between the effectiveness of evaluation and the involvement of various stakeholders in implementing the evaluation recommendations. Prerequisite: **SOC 100 and SOC 250 or permission of the instructor.**

**SOC495 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.**

**SOC497 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.

**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, equilibristic, and evolutionist models. Prerequisite: **SOC100 or permission of the instructor.** (Formerly **SOC302**).

**SPANISH****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- SPECIAL TOPICS: 391 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**.

## SPECIAL EDUCATION

### 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.

### SPED268 AMERICAN SIGN LANGUAGE AND DEAF CULTURE II 3 sem. hrs.

This course is a continuation of American Sign Language and Deaf Culture I (SPED 267). As such, it will enable students to increase their ASL vocabulary while providing a significantly deeper experience of d/Deaf culture. This course specifically provides a view of people who are deaf as unique language speakers and having cultural needs rather than those who are disabled. Course instruction and activities are primarily in ASL with no spoken English. 10 lab hours with a Deaf community member are required. Prerequisite: **SPED 267 with a "C" or better or permission from the instructor.**

### 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 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**

### 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.**

### 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.**

### 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.** Taken in P-4, 4-8, or 7-12 Block.

### 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.**

**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, SPED 360, teacher candidacy or permission of instructor. Co-requisite: SPED 440.**

**SPED424 INTRODUCTION TO DYSLEXIA AND DYSLEXIA INTERVENTION 3 sem. hrs.**

This course examines the topic of dyslexia as a language-based learning disability that is neurobiological in origin. The course will compare and contrast the behaviors, characteristics, and brain-based processes that typically and atypically developing readers exhibit while listening, speaking, reading writing, and spelling. Characteristics of effective intervention programs will be examined. Related conditions and assistive technology will also be discussed. Prerequisite: **READ major or minor or permission of instructor.**

**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, SPED 360, teacher candidacy or permission of the instructor. Co-requisite: SPED 440.**

**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 420, and SPED 430.. Prerequisites: **SPED 210, SPED 360 and teacher candidacy.**

**SPED451 INSTRUCTIONAL STRATEGIES IN SPECIAL EDUCATION II 3 sem hrs**

This course studies the research-based interventions for individuals with special needs including in the subject areas of mathematics, science, and social studies grades K through 8. 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 and SPED360; Co-requisite ECED340 or MLED381**

**SPED460 YOUNG CHILDREN WITH DISABILITIES 3 sem. hrs.**

This course introduces the field of Early Childhood Special Education with a focus on the young child with disabilities. It emphasizes early intervention rationale, history, and identification of at-risk children. Relationship-building teaming with families approaches included. Also included are mandates of the Individuals with Disabilities Improvement Act (IDEIA).

**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. It provides supervised, field-based experience in teaching and other activities expected of special education teachers. Prerequisites: **Teacher candidacy, and have taken Praxis II exams, and successfully completed all required professional courses for certification.**

**STATISTICS****STAT260 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 MATH course 104 or higher, 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. Formerly MATH 260

**STAT 300 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. Prerequisite: **MATH 208 or MATH 211. Must have earned a "C-" or better in all prerequisite course(s).** Note: Students cannot earn credit for STAT 260 after taking STAT 300. STAT 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. Formerly MATH300

**STAT350 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: **MATH 212 and MATH270. Must have earned a "C-" or better in all prerequisite course(s).** This course is approved for General Education -Distribution 3 .Formerly MATH 350

**STAT360 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: **STAT260 or STAT300 or STAT350. Must have earned a "C-" or better in all prerequisite course(s).** Formerly MATH360

**STAT380 INTRODUCTION 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 statistics. Students are graded on a satisfactory/unsatisfactory basis. Prerequisites: **MATH311 and STAT350. Must have earned a 'C-' or better in all prerequisite course(s).** Formerly MATH380

**STAT442 STOCHASTIC PROCESSES 3 sem. hrs.**

Many systems evolve over time with an inherent amount of randomness. The purpose of this course is to develop and analyze probability models that capture the salient features of the system under study to predict the short and long term effects that this randomness will have on the systems under consideration. The study of probability models for stochastic processes involves a broad range of mathematical and computational tools. This course will strike a balance between the mathematics and the applications. Prerequisites: **STAT350 (Grade of C- or better).**

**- U -****UNIVERSITY****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 -****WOMEN'S STUDIES****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.**

**WRDL495 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.

**WORLD LANGUAGES****WRDL100 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.

# UNIVERSITY FACULTY

EDINBORO  
UNIVERSITY

**ACADEMIC FACULTY**

- NATHAN J. ADELGREN**, Associate Professor  
Mathematics and Computer Science  
A.S., Jamestown Community College, 2004;  
B.S., State University of New York, 2009;  
M.S., Indiana University of Pennsylvania, 2011  
Ph.D., Clemson University, 2016
- SUZANNE AMENDOLARA**, Professor  
Art  
B.F.A., Miami University, 1985;  
M.F.A., Indiana University, 1988
- KIARASH ARAMESH**, Assistant Professor  
Biology and Health Sciences  
M.D., Tehran University, 1997  
Ph.D., Duquesne University, 2017
- NATHAN ARMATAS**, Assistant Professor  
Chemistry  
B.S., St. Lawrence University, 2002  
Ph.D., Syracuse University, 2008
- TERRI ASTORINO**, Professor  
Nursing  
B.S., M.S.N., Edinboro University of Pennsylvania, 1983, 1994  
Ed.D., Indiana University of PA, 2006
- LISA AUSTIN**, Professor  
Art  
B.F.A., Virginia Commonwealth, 1983;  
M.F.A., Yale University, 1986
- MELANIE L. BAKER**, Associate Professor  
Mathematics and Computer Science  
B.A., Thiel College, 2004;  
M.A., Ph.D., Bowling Green University, 2007, 2011
- LENORE BARBIAN**, Professor  
Criminal Justice, Anthropology, and Forensic Studies  
B.A., Northwestern University, 1985;  
M.A., Ph.D., University of Massachusetts, 1988, 1994
- HEATHER LEE BARON**, Professor  
Middle & Secondary Education and Educational Leadership  
B.A., M.Ed., Edinboro University of Pennsylvania, 1996, 2001;  
Ph.D., University of Alaska, 2010
- SHELLE BARRON**, Professor  
Art  
B.A., Mercyhurst College, 1974;  
M.F.A., Edinboro University of Pennsylvania, 1985
- JEFFERY BARTONE**, Assistant Professor  
English and Philosophy  
M.A., State University of New York at Stony Brook, 1994;  
Ph.D., Indiana University of Pennsylvania, 2004
- DOUGLAS A. BATTLESON**, Associate Professor  
Business and Economics  
E.D.B., Georgia State University, 2013;  
M.B.A., Old Dominion University, 1996  
B.S., Edinboro University, 1988
- JOHN BAVARO**, Associate Professor  
Art  
B.A., Miami U., 1987;  
M.F.A., U. of Cincinnati, 1999
- GEOFFREY S. BEADLE**, Professor  
Art  
B.F.A., Tyler School of Art, 1995;  
M.F.A., Boston University, 1997
- IHOR BEMKO**, Associate Professor  
History, Politics, Languages, and Cultures  
B.A., M.P.A., Texas Tech., 1979, 1982;  
Ph.D., Texas A&M, 1991
- DANIEL M. BENNETT**, Associate Professor  
Mathematics and Computer Science  
B.S., The University of Akron, 1986  
M.S., Ph.D., Kent State University, 1990, 2010
- ERIK BENTSEN**, Assistant Professor  
Counseling, School Psychology and Special Education  
B.A., University of North Carolina – Chapel Hill, 1997;  
M.A.T., North Carolina Central University, 2004  
Ph.D., University of North Carolina – Chapel Hill, 2014
- COLLEEN R. BESSETTI-BARRETT**, Associate Professor  
Nursing  
B.S., Edinboro University of Pennsylvania, 1997;  
M.S., University of Pittsburgh, 2001;  
D.N.P., Robert Morris University, 2009
- CHRISTINE BILLEN**, Assistant Professor  
Graduate Studies in Business  
B.S., Fairleigh Dickinson University, 1987  
M.B.A., Miami University, 1990
- KRISTINA L. BODAMER**, Assistant Professor  
Early Childhood and Reading  
B.S., M.A., Fredonia State University, 1999, 2004  
Ph.D., University of the Rockies, 2019
- CAROLINE CAMPBELL**, Assistant Professor  
English and Philosophy  
B.A., Allegheny College, 2007;  
M.F.A., New York University, 2010
- MARY PANICCIA CARDEN**, Professor  
English and Philosophy  
A.A., Broome Community College, 1984;  
B.A., SUNY-Geneseo, 1986;  
M.A., Ph.D., SUNY-Binghamton, 1992, 1997
- JANICE CARELLO**, Assistant Professor  
Social Work  
A.S., Monroe Community College, 1996  
B.S., College at Brockport, 1999  
M.S.W., Ph.D., University at Buffalo School of Social Work, 2011, 2018
- ANDREA L. CHELTON**, Assistant Professor  
Nursing  
M.S.N., Grand Canyon University, 2015  
B.S., Edinboro University, 2003
- XIN-ZHU CHEN**, Associate Professor  
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M.A., M.B.A., Ph.D., Bowling Green State University, 1985, 1988, 1998
- IVAN CHOMPALOV**, Associate Professor  
Sociology  
B.A., Sofia University; M.A., Institute of Sociology, Bulgarian Academy of Sciences; Ph.D., Louisiana State University, 1998
- MALCOLM CHRISTHILF**, Professor  
Art  
B.S., Towson State University, 1979;  
M.A., M.F.A., University of California at Berkeley, 1985, 1987
- PATRICIA N. CLASTER** Professor  
Sociology  
B.S., M.A., Ph.D. University of New York at Buffalo, 2002, 2005, 2008
- SAMUEL M. CLASTER**, Associate Professor  
Sociology  
B.A., M.A., Edinboro University of Pennsylvania, 2002, 2005;  
Ph.D., South Dakota State University, 2010
- HILARY COPP**, Associate Professor  
Social Work  
B.A., Carleton College, 1995;  
M.A., University of Chicago, 1999;  
M.A., Ph.D., University of Georgia, 2003, 2007
- CAPPY COUNARD**, Professor  
Art  
B.A., University of Wisconsin, 1992;  
M.F.A., Southern Illinois University, 1999

- KEVIN E. COURTRIGHT, Associate Professor  
Criminal Justice, Anthropology, and Forensic Studies  
B.A., SUNY-Fredonia, 1989;  
M.S., Mercyhurst College, 1991;  
Ph.D., Indiana University of Pennsylvania, 1995
- RONALD CRAIG, Professor  
Psychology  
B.S., Boise State University, 1990; M.S., University of Utah, 1995;  
Ph.D., University of Utah, 1997
- DIANE CRANDALL, Professor  
Art  
B.F.A., Edinboro State College, 1981;  
M.F.A., Kent State University, 1993
- JOHN CUSSEN, Professor  
English and Philosophy  
B.A., Don Bosco College, 1977;  
M.A., Boston College, 1983;  
Ph.D., University of Cincinnati, 1993
- JANUSZ CZEJDO, Professor  
History, Politics, Languages, and Cultures  
B.A., M.A., University of Warsaw, Poland, 1978,  
1979; Ph.D., Brigham Young University, 1989
- BRIGETTE DAVITT, Associate Professor  
Art  
B.F.A., Edinboro University;  
M.F.A., Temple University
- RICHARD DEAL, Assistant Professor  
Geosciences  
B.A., Clark University, 1993;  
M.S., Ph.D., University of South Carolina, 1995, 2000
- MARK DEKA, Associate Professor  
Art  
B.A., Ohio State University, 1979;  
M.A., Ph.D., Case Western Reserve, 1983, 1991
- FRANCIS DEMASKE, Associate Professor  
Art  
B.F.A., M.F.A., Kent State University, 1989, 1992
- JENNIFER C. DEMPSEY, Assistant Professor  
Middle and Secondary Education and Educational Leadership  
B.F.A., University of Pennsylvania, 1995  
M.A., Teachers College at Columbia University, 1999  
Ed.D., Duquesne University, 2014
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Business and Economics  
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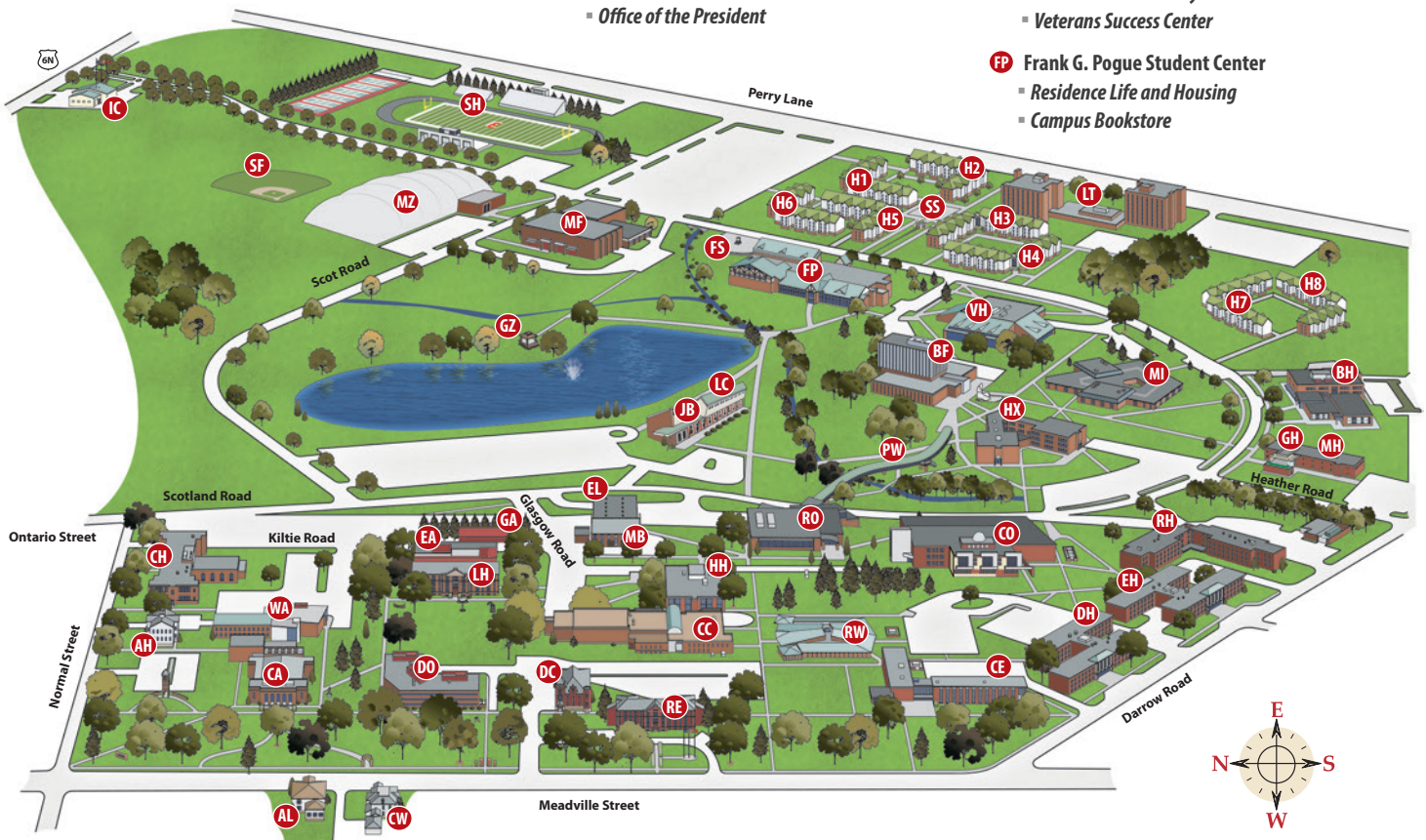
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# EDINBORO UNIVERSITY

## ADMISSIONS AND MAIN OFFICES

- AH** Academy Hall
  - Undergraduate Admissions
- BH** Butterfield Hall
  - School of Education
  - School of Graduate Studies
- RW** R. Benjamin Wiley Arts & Sciences Center
  - College of Arts, Humanities, and Social Sciences
  - School of Business
  - College of Science and Health Professions
- RE** Reeder Hall
  - Office of the President
- HB** Hamilton Hall
  - Student Accounts; Financial Aid; Records and Registration
- BF** Baron-Forness Library
  - Academic Success Center
  - Center for Career Development and Experiential Learning
  - Global Education Office
  - Transfer and Adult Student Services
- CC** Crawford Center
  - Office for Accessibility Services
  - Veterans Success Center
- FP** Frank G. Pogue Student Center
  - Residence Life and Housing
  - Campus Bookstore



## CAMPUS BUILDING DIRECTORY

- |  |   |   |
|--|---|---|
| <b>AH</b> Academy Hall                             | <b>FP</b> Frank G. Pogue Student Center           | <b>LC</b> Leader Speech & Hearing Center                |
| <b>AL</b> Alumni House                             | <b>GA</b> Garage                                  | <b>LH</b> Loveland Hall                                 |
| <b>BF</b> Baron-Forness Library                    | <b>GZ</b> Gazebo                                  | <b>MB</b> Maintenance Building                          |
| <b>BH</b> Butterfield Hall                         | <b>GH</b> Ghering Health & Wellness Center        | <b>MF</b> McComb Fieldhouse                             |
| <b>CE</b> Centennial Hall                          | <b>HH</b> Hamilton Hall                           | <b>MH</b> McNerney Hall                                 |
| <b>CA</b> Louis C. Cole Auditorium - Memorial Hall | <b>HX</b> Hendricks Hall                          | <b>MZ</b> Mike S. Zafirovski Sports & Recreation Center |
| <b>CW</b> Commonwealth House                       | <b>H1</b> Highlands Residence Hall 1              | <b>MI</b> Miller Hall                                   |
| <b>CH</b> Compton Hall                             | <b>H2</b> Highlands Residence Hall 2              | <b>PW</b> Pedestrian Walkway                            |
| <b>CO</b> Cooper Science Center                    | <b>H3</b> Highlands Residence Hall 3              | <b>RW</b> R. Benjamin Wiley Arts & Sciences Center      |
| <b>CC</b> Crawford Center                          | <b>H4</b> Highlands Residence Hall 4              | <b>RE</b> Reeder Hall                                   |
| <b>DH</b> Dearborn Hall                            | <b>H5</b> Highlands Residence Hall 5              | <b>RH</b> Rose Hall                                     |
| <b>DC</b> Diebold Center for the Performing Arts   | <b>H6</b> Highlands Residence Hall 6              | <b>RO</b> Ross Hall                                     |
| <b>DO</b> Doucette Hall                            | <b>H7</b> Highlands Residence Hall 7              | <b>SF</b> Softball Field                                |
| <b>EL</b> Earley Hall                              | <b>H8</b> Highlands Residence Hall 8              | <b>SH</b> Sox Harrison Stadium                          |
| <b>EH</b> Earp Hall                                | <b>IC</b> Information Center and Police Station   | <b>SS</b> Standing Stones at Highlands                  |
| <b>EA</b> East Hall                                | <b>JB</b> Jeremy D. Brown Human Services Building | <b>VH</b> Van Houten Dining Hall                        |
| <b>FS</b> Fighting Scot Plaza                      | <b>LT</b> Lawrence Towers                         | <b>WA</b> William P. Alexander Music Center             |

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