



EDINBORO
UNIVERSITY

Great things happen here!

2010-2012
Undergraduate Catalog



EDINBORO UNIVERSITY OF PENNSYLVANIA

2010-2012

Undergraduate Catalogue

Accreditation

Edinboro University of Pennsylvania is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, Pa., 19104, 215-662-5606. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Recognition of Postsecondary Accreditation.

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

Non-Discrimination Statement

Edinboro University of Pennsylvania is an equal opportunity education institution and employer and will not discriminate on the basis of race, color, national origin, sex, and disability in its activities, programs or employment practices as required by Title VI, Title VII, Title IX, Section 504, and the ADA. For information regarding civil rights or grievance procedures, contact the Office of Human Resources and Faculty Relations, Reeder Hall, (814-732-2810) or the Office of Social Equity (814-732-2167), 219 Meadville Street, Edinboro, PA 16444.

In addition, Edinboro University of Pennsylvania's Equal Opportunity/Affirmative Action Policy states: The University has pledged not to discriminate on the basis of race, sex/gender, color, age, religion, national origin, disability, organizational affiliation, marital status or any other protected class status as defined by applicable federal or state law.

For information or assistance regarding services, activities and facilities that are accessible to and useable by persons with disabilities, contact Dr. Robert McConnell, Office for Students with Disabilities (814-732-2462 V/TTY).

In addition, Edinboro University of Pennsylvania's Process for Handling Discrimination Complaints (G001) states: The University is committed to creating and maintaining a campus environment that is free of prohibited or unlawful discrimination. This policy extends to all educational, service, and employment programs of the University. Prohibited or unlawful discrimination is defined by applicable federal or state law and involves treating an individual differently because of his/her race, sex/gender, color, age, religion, national origin, disability, organizational affiliation, sexual orientation, and marital status or any other protected class status as defined by applicable federal or state law.

Social Equity and University Ombudsperson

Most students will complete their education at Edinboro University without the need to pursue a complaint. The Office through its social equity role, among other things, provides leadership as well as assists others in the creation of a campus environment that promotes diversity and values individual differences and similarities, while resolving concerns and complaints pertaining to employees and students in regard to prohibited or unlawful harassment and discrimination. Also, the Office through its ombudsperson role discusses options to resolve concerns and issues such as information on University policies and procedures and as appropriate, intervention, mediation, and referrals to appropriate other individuals on campus. Additionally, the Office takes and tracks reports from faculty, students, staff, and administrators that may include, but are not limited to, troubling or suspicious acts, behavior, or conduct.

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

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

Contents

Accreditation	1	Social Work Department	114
Policy of Non-Discrimination and Affirmative Action	1	Sociology Department	115
Mission and Vision Statements	3	Speech, Language and Hearing Department	117
University Calendar	4	School of Education	118
Programs of the University	5	Early Childhood and Special Education	120
Administration	7	Elementary, Middle/Secondary Education Department	123
President's Message	8	Health and Physical Education Department	142
Communications Directory	9	Special Programs	146
General Information		Minor Programs	148
Admission	12	Associate Degree Programs	156
Fees and Expenses	14	The Harrisburg Internship Semester	156
Financial Aid Programs	18	Course Descriptions	
Student Affairs	21	Art Department	158
Academic Affairs Information		Biology and Health Services Department	165
Academic Advisement and Student Responsibility	30	Business and Economics Department	170
Academic Standards and Procedures (FERPA)	31	Chemistry Department	174
Academic Recognition and Honors	39	Communication and Media Studies Department	176
Graduation Review and Commencement	40	Early Childhood and Special Education Department	179
Academic Resources, Services and Special Programs	43	Elementary, Middle/Secondary Education Department .	183
Academic Affairs – Curricula and Organization		English and Theatre Arts Department	187
General Education Requirements	48	Foreign Languages Department	191
College of Arts and Sciences	52	Geosciences Department	194
Art Department	52	Health and Physical Education Department	197
Biology and Health Services Department	55	History and Anthropology Department	200
Business and Economics Department	61	Mathematics and Computer Science Department	209
Chemistry Department	67	Military Science Department	213
Communication and Media Studies Department	71	Music Department	214
English and Theatre Arts Department	74	Nursing Department	217
Foreign Languages Department	76	Organizational Studies Department	220
Geosciences Department	78	Philosophy Department	220
History and Anthropology Department	84	Physics and Technology Department	222
Mathematics and Computer Science Department	88	Political Science and Criminal Justice Department	225
Music Department	94	Psychology Department	230
Nursing Department	96	Social Work Department	232
Organizational Studies Department	101	Sociology Department	233
Philosophy Department	101	Speech, Language and Hearing Department	235
Physics and Technology Department	103	University Faculty	238
Political Science and Criminal Justice Department .	109	Index	247
Psychology Department	112	Campus Map	Inside Back Cover

Mission Statement

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

Vision Statement

To become an internationally recognized university known for its innovation, leadership, and commitment to excellence.

University Calendars

2010-2011

(50-Minute Periods)

FIRST SEMESTER (Fall 2010)

Classes Begin Monday, August 30
 Labor Day Holiday (no classes) Monday, September 6
 Thanksgiving Break Begins Tuesday, November 23
 (close of classes)
 Thanksgiving Break Ends Monday, November, 29
 (classes resume)
 Last Day of Classes Friday, December 10
 Exam Period Begins Monday, December 13
 Semester Ends Friday, December 17
 Commencement Saturday, December 18

SECOND SEMESTER (Spring 2011)

Martin Luther King, Jr. Holiday Monday, January 17
 (no classes)
 Classes Begin Tuesday, January 18
 Spring Break Begins Friday, March 4
 (close of classes)
 Spring Break Ends Saturday, March 12
 (classes resume)
 Classes End Monday, May 2
 Exam Period Begins Tuesday, May 3
 Semester Ends Friday, May 6
 Commencement Saturday, May 7

2011-20112

(50-Minute Periods)

FIRST SEMESTER (Fall 2011)

Classes Begin Monday, August 29
 Semester Ends Friday, December 16
 December Commencement Saturday, December 17

SECOND SEMESTER (Spring 2012)

Classes Begin Monday, January 23
 Semester Ends Friday, May 11
 Commencement Saturday, May 12

Programs of the University

COLLEGE OF ARTS AND SCIENCES

Undergraduate Programs

Associate Degree Programs

- AET – Manufacturing Engineering Technology
 AA – Criminal Justice
 AA – Human Services/Social Services
 AA – Liberal Studies
 AS – Business Administration
 AS – Computer Science
 AS – Pre-Pharmacy
 AS – Pre-Pharmacy - LECOM

Bachelor of Arts Degrees

- BA – Anthropology
 BA – Art History
 BA – Biology
 BA – Chemistry
 BA – Communication Studies
 BA – Criminal Justice
 BA – Earth Sciences
 BA – English Literature Writing
 BA – Geography Environmental Studies Urban Regional Planning
 BA – German
 BA – History
 BA – Humanities English Foreign Languages
 BA – Individualized Studies
 BA – Journalism and Mass Communication Broadcast Journalism Print Journalism Public Relations
 BA – Latin American Studies
 BA – Mathematics Actuarial Science
 BA – Music Music Education
 BA – Natural Sciences and Mathematics
 BA – Philosophy Religious Studies
 BA – Physics Cooperative Engineering Liberal Arts Theoretical
 BA – Political Science
 BA – Psychology Applied Developmental Custom Focus Mental Health
 BA – Social Science
 BA – Sociology
 BA – Spanish
 BA – Speech and Hearing Sciences
 BA – Theatre Arts
 BA – Women's Studies

Bachelor of Fine Arts Degrees

- BFA – Applied Media Arts Cinema (Animation, Computer Animation, Film & Video) Graphic Design Photography
 BFA – Studio Arts Ceramics Drawing Jewelry/Metalsmithing

Painting
 Printmaking
 Sculpture
 Wood/Furniture

Bachelor of Science Degrees

- BBAE – Art Education
 BS – Biology Dental Medical Pharmacy Veterinary
 BS – Business Administration Accounting Accounting/Forensic Accounting Comprehensive Business Admin. Financial Services Management Information Systems Marketing
 BS – Chemistry Forensic Science Industrial Biochemistry
 BS – Computer Science Application Game and Virtual World Development Theoretical
 BS – Economics
 BS – Environmental Science/Biology
 BS – Geology Environmental Geology
 BS – Industrial and Trades Leadership
 BS – Medical Technology
 BS – Nuclear Medicine Technology
 BS – Nursing
 BS – Social Work
 BSN – Nursing

Pre-Healing Arts

- BS – Dental
 – Medical
 – Pharmacy
 – Veterinary

SCHOOL OF EDUCATION

Undergraduate Programs

Associate Degrees

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

Bachelor of Science in Education Degrees

- BS in Ed. – Early Childhood Education
 BS in Ed. – Early Childhood Education (P-4) and Special Education (P-8)
 BS in Ed. – Elementary Education (program must be completed by Dec 2012)
 BS in Ed. – Elementary/Early Childhood Education (program must be completed by Dec 2012)
 BS in Ed. – Elementary/Special Education (program must be completed by Dec 2012)
 BS in Ed. – Middle Level Education - English/Language Arts/Reading Math and English/Language Arts/Reading Math and Science Math and Social Studies Mathematics Science Science and English/Language Arts/Reading Science and Social Studies Social Studies

BS in Ed. – Secondary Education
 Biology
 Chemistry
 Comprehensive English
 Earth and Space Science
 Foreign Language - German
 Foreign Language - Spanish
 General Science
 Mathematics
 Physics
 Social Studies

BS in Ed. – Special Education/Elementary Ed (program must be completed by Dec 2012)

BS in Health and Physical Education

Health Promotion
 Human Performance
 Recreation Administration
 Sport Administration
 Teacher Certification

Graduate Programs

- MA – Art Art Education
 MA – Communication Studies
 MA – Counseling Rehabilitation Community Counseling College Counseling Student Affairs School Counseling-Elementary School Counseling-Secondary
 MA – Social Sciences Anthropology History Sociology
 MA – Speech/Language Pathology
 MED – Early Childhood
 MED – Educational Leadership
 MED – Educational Psychology
 MED – Middle and Secondary Education English Mathematics/Science Teacher Certification Social Studies Middle Level
 MED – Reading
 MED – Reading Specialist
 MED – Special Education Autism (certified) Behavior Management (certified) High Incidence (certified)
 MFA – Studio Arts Ceramics Jewelry/Metalsmithing Painting Printmaking Sculpture
 MS – Biology
 MS – Educational Specialist in School Psychology
 MSN – Nursing Family Nurse Practitioner Nurse Educator
 MSW – Social Work
 Post Masters PA Superintendent/IU Director Letter of Eligibility
 Post Masters K-12 Principal Certification
 Institutional Certificate - Conflict Management
 Institutional Certificate- Character Education

Post-Baccalaureate Teacher Certification*

Biology
Chemistry
Comprehensive English
Early Childhood
Earth/Space Science
General Science
German
Health and Physical Education
Mathematics
Music
Physics
Social Studies
Spanish
Middle Level – English/Language
Arts/Reading
Middle Level – Mathematics
Middle Level – Math and
English/Language
Arts/Reading
Middle Level – Math and Science
Middle Level – Math and Social Studies
Middle Level – Science
Middle Level – Social Studies
Middle Level – Science and
English/Language
Arts/Reading
Middle Level – Science and Social
Studies
Reading Specialist

**Post Master's Preparation for other
certification/licensure**

Elementary School Guidance Counseling
(state certification)
Secondary School Guidance Counseling (state
certification)
Student Personnel Services (licensure preparation)
Rehabilitation Counseling (licensure preparation)
Community Counseling (licensure preparation)
Elementary School Guidance (licensure
preparation)
Secondary School Guidance (licensure preparation)
Pennsylvania Letter of Eligibility for
Superintendents & IU Executive Director
School Psychologist (state certification)
School Administration K-12 (state certification)
School Supervision – Art (state certification)
School Supervision – Elementary Education
(state certification)
School Supervision (state certification)
School Supervision – Music (state certification)
School Supervision – Science (state
certification)
School Supervision – Social Studies (state
certification)
School Supervision – Special Education. (state
certification)

* 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.

GOVERNOR OF PENNSYLVANIA

Tom Corbett

PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION

Dr. John C. Cavanaugh, *Chancellor*

BOARD OF GOVERNORS

Mr. Kenneth M. Jarin, *Chair*

Mr. Aaron A. Walton, *Vice Chair*

Mr. C. R. "Chuck" Pennoni, *Vice Chair*

The Honorable Matthew E. Baker

Mr. Paul S. Dlugolecki

Mr. Thomas L. Gluck

The Honorable Michael K. Hanna

The Honorable Vincent J. Hughes

Ms. Marie Conley Lammando

Ms. Jamie Lutz

Mr. Jonathan B. Mack

Mr. Joseph F. McGinn

The Honorable Jeffrey E. Piccola

The Honorable Edward Rendell

Mr. Harold C. Shields

Mr. Thomas M. Sweitzer

Ms. Christine J. Toretti

Ms. Mackenzie Marie Wrobel

EDINBORO UNIVERSITY OF PENNSYLVANIA

Dr. Jeremy D. Brown, *President*

COUNCIL OF TRUSTEES

Mr. Harold C. Shields, *Chair*

Mrs. Virginia L. McGarvey, *Vice Chair*

Dr. Raymond L. Dombrowski, *Secretary*

Mr. Terry J. Darangelo

The Honorable John R. Evans

Mr. John A. Pulice

Mr. Dennis R. Frampton

Mr. Daniel E. Higham

Mr. John E. Horan

Sr. Catherine M. Manning

Harry K. Thomas, Esq.

Dr. John C. Cavanaugh, Chancellor, *ex officio*

PRESIDENT'S EXECUTIVE COUNCIL

Dr. Alan Biel, *Dean of Graduate Studies and Research*

Mr. Sid Booker, *Associate Vice President for Human Resources and Faculty Relations*

Dr. Donald Dilmore, *Associate Vice President for University Libraries*

Dr. Joel Erion, *Interim Dean of Education*

Ms. Kimberly Fabrizio, *Executive Assistant to the President, Director of Continuing Education and Interim Director of Admissions*

Dr. Philip Ginnetti, *Provost and Vice President for Academic Affairs*

Ms. Valerie Hayes, *Director of Social Equity and University Ombudsperson*

Mr. Gordon Herbst, *Vice President for Finance and Administration*

Dr. Andrew Lawlor, *Associate Vice President for Technology and Communications*

Ms. Amy Neil, *Assistant Vice President for Communications and Marketing*

Dr. Kahan Sablo, *Interim Vice President for Student Affairs and Dean of Student Life*

Dr. Terry Smith, *Dean, College of Arts and Sciences*

Mr. Bruce Whitehair, *Vice President for University Advancement*

President's Message

Dear Edinboro University student:

Greetings and welcome to Edinboro University *where great things happen!*

You are starting an exciting journey of academic excellence and personal growth at one of Pennsylvania's premier institutions of higher education. I know this voyage shared with so many others will be filled with personal rewards and mutual satisfaction!

As the 16th President in Edinboro's long and storied history, it is my distinct honour to have been chosen to lead our University into a future filled with the promise of greatness. Yet, with such an honour comes shared responsibility. Just as it is my responsibility to ensure the academic excellence, financial viability and safety of our great institution; it becomes your responsibility to strive in your own right for personal achievement and fulfillment, nurtured by our highly professional and caring faculty and staff in a civil and collegial environment of academic excellence and academic freedom.

Excellence has been the academic staple here for more than 150 years. It dates back to the founding of the Edinboro Academy in 1857 by citizens of the town, many of whom were of Scottish descent. These townspeople brought to the Edinboro Academy their rich educational traditions of teaching and learning and strong work ethic; traditions that have not only endured through the generations, but have also grown stronger at Edinboro University.

As an Edinboro learner, what's vitally important for you to know is that we are here for you. Whether traditional or non-traditional student, whether residential or commuter or distance learner, your academic success and personal growth are not only our priority, they're the reason why we exist. Yet, by the same token we — you, our faculty and staff — are a team. Without your commitment to hard work and dedication to excellence to ensure your great personal achievement, our efforts to do the same on your behalf would become highly diminished. We exhort you to reach beyond your expectations and realise your true potential.

"Great Things Happen Here!" is much more than a catch-phrase or tagline. It represents a truth permeating all of our endeavours for students, their families, faculty, staff, alumni and our friends and neighbours. It is an absolute; one demonstrative of our mantra that everything we do must reflect the excellence of Edinboro University and our vision for success and growth.

My pledge to you as a student is that our administrators, faculty and staff will do all within their professional expertise to make *great things* happen during your Edinboro experience. The other side of the coin is your commitment to make *great things* happen for yourself. Together, our mutual commitment to excellence and dedication to one cause represents a winning combination! How can we not succeed?

This Undergraduate Catalogue is specifically aimed toward advancing your academic growth by helping guide you through your successful college career at Edinboro University. I know it will serve you well.

And remember: at Edinboro, we'll take you to the world and in so doing bring the world to you. In the classrooms, the libraries, the laboratories, the athletic venues and in the many extracurricular activities that provide the complete Edinboro experience, *great things are indeed happening here!*

Welcome aboard! Let your journey of excellence begin!

Jeremy D. Brown, President



Communications Directory

University Switchboard	(814) 732-2000
President	732-2711
Executive Assistant to the President	732-2711
Provost and Vice President for Academic Affairs	732-2729
Vice President for Financial Operations and Administration	732-2585
Vice President for Student Affairs	732-2313
Dean of Education	732-2752
Dean of College of Arts and Sciences	732-2477
Academic Departments	
Art	732-2406
Biology and Health Services	732-2500
Business and Economics	732-2407
Chemistry	732-2485
Communication and Media Studies	732-2444
Early Childhood and Special Education	732-2750
Elementary, Middle and Secondary Education	732-2830
English and Theatre Arts	732-2736
Foreign Languages	732-2416
Geosciences	732-2529
Health and Physical Education	732-2502
History and Anthropology	732-2575
Mathematics and Computer Science	732-2760
Music	732-2555
Nursing	732-2900
Organizational Studies	732-2407
Philosophy	732-2490
Physics and Technology	732-2592
Political Science and Criminal Justice	732-2409
Psychology	732-2774
Social Work	732-2013
Sociology	732-2573
Speech, Language and Hearing Studies	732-2433
Other Offices	
Admissions	732-2761
Affirmative Action	732-2167
Alumni	732-2715
Bookstore	732-2456
Bursar's Office	732-3502
Center for Career Services	732-2781
Continuing Education	836-1955
Dining Services	732-2635
Edinboro University in Erie - The Porreco Center	836-1955
Edinboro University in Meadville - The Buba Center	1-800-337-7791
Financial Aid	732-3500
Graduate Studies	732-2856
Health Center	732-2743
International Student Services	732-2770
Library	732-2273
Office for Adult Student Services	732-2701
Office for Students with Disabilities	732-2462
Police	732-2921
Public Relations	732-1731
Records and Registration	732-3501
Residence Life and Housing	732-2818
ROTC/Military Service	732-2562
Student Government	732-2910
Technology and Communications Center	732-2931
University Center	732-2842

Edinboro At A Glance

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

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

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

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

The Edinboro University Alumni Association has experienced dramatic growth during the past several years and now has 40,000 members. The alumni have played a major role in fund-raising efforts for student scholarships, and they continue to be some of the best ambassadors for Edinboro University. Among the many graduate and professional schools attended by recent Edinboro graduates are American University, Berkeley, Eastman School of Music, Georgetown University, Hershey Medical School and the Massachusetts Institute of Technology. Edinboro graduates have brought credit to the University in such positions as government officials, legislators, federal agents, corporate executives and administrators, and college presidents.

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

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

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

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

F



*General
Information*

ADMISSION

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

Admission Requirements

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

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

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

Admission Procedure

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

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

Applicants for the Freshmen Class

1. Request application for admission by contacting the Admissions Office, Edinboro University of Pennsylvania, Edinboro, PA 16444, local/TTY: 814-732-2761, toll free: 1-888-8GO-BORO, fax: 814-732-2420, or the Edinboro website: www.edinboro.edu. Applications can also be secured at most high school guidance offices.
2. Complete the paper application and return it to the Admissions Office, or apply electronically via the Edinboro University website: www.edinboro.edu. This document should be accompanied by a thirty dollar (\$30) application fee which is non-refundable and is not applicable to the student's financial account. All checks or money orders should be made payable to Edinboro University.
3. Request that the appropriate school official complete the Secondary School Report (official high school transcript) and send it to the Admissions Office. All documents submitted by the student become the property of Edinboro University and cannot be returned.
4. Arrange through the high school to participate in the College Entrance Examination Board SAT or the American College Testing Program ACT. Either test is acceptable for admission to Edinboro. Junior year scores and/or senior year scores may be submitted. Students who have been out of high school for more than two years are not required to participate in a college entrance examination (SAT or ACT). There are a few exceptions to this policy, i.e., nursing, LECOM seven-year medical and pharmacy programs, etc. Please check with the Undergraduate Admissions Office if you have questions on whether or not you should take the SAT/ACT examinations.
5. Participate in a personal interview, if one is deemed necessary by the Admissions Office.
6. 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.
7. Pay all deposits and fees when required.

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

Special Students

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

1. Applicants who are not high school graduates, but demonstrate the ability and initiative to engage in college level coursework, may be admitted as Special Students. Such students may take courses, receive grades and earn credits like other students, and their grades and credits become a part of their permanent academic record at Edinboro University. However, these credits will not be accepted towards a degree at Edinboro University until a student has received a high school diploma or demonstrated equivalency.
2. Special Students may have definite programs of study which they would like to follow and can only enroll in courses where required prerequisites are met. Special Students will be given second priority to degree candidates for available class seats.

3. Special Students are subject to the same rules and regulations of the University as other students. Additionally, a grade of "C" or above in each course is expected of all Special Students. A lesser performance could preclude further registration.
4. For admission as a Special Student, a personal interview is strongly recommended with a member of the admission staff or other designated personnel. This will allow the candidate to fully discuss the reason for enrollment as a Special Student, and the programs/services available at the University to serve those needs. At that time the Special Student application can be completed, along with the submission of the required \$30.00 non-refundable application fee.
5. To obtain materials regarding Special Student enrollment, interested persons may contact the Admissions Office.

Dual Enrollment for High School Students

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

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

Transfer Students and Advanced Standing

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

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

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

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

be on file in the Edinboro Admissions Office prior to enrollment. Enrollment is contingent upon honorable withdrawal from the previous institution as indicated by the Student Affairs Form.

4. Complete at least one semester's work of satisfactory quality at Edinboro University before assigned to student teaching.

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

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

Students who transfer from another institution in the State System of Higher Education or Pennsylvania public two-year institution may be eligible for the Academic Passport. For more information, please check the table of contents for Academic Passport or www.sshechan.edu/passport/.

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

Students entering Edinboro University seeking a baccalaureate degree must complete the last 30 credits in courses scheduled by the University while students seeking an associate degree must complete the last 30 credits in courses scheduled by the University.

Students in good academic standing (defined as eligibility to continue to enroll) at Edinboro University may take courses at other institutions for transfer back to their program at Edinboro with the prior written permission of their advisor, chair, and dean. Determination of course equivalencies is made by the Office of Records and Registration. Following completion of the coursework the student is instructed to have an official transcript sent to the Office of Records and Registration, Hamilton Hall, Edinboro, PA 16444. 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.

Teacher Certification Students

Students who already hold a bachelor's degree from another college or university, who now wish to earn the courses and credits necessary for teacher certification, may be admitted to the University on a non-degree basis. Official transcripts from all previously attended and current post-secondary institutions, and a non-Edinboro University alumni — \$30, Edinboro University alumni — \$7 non-refundable application fee, must accompany the teacher certification application. Teacher certification students will have their previous college transcripts reviewed by the dean of the School of Education 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 Office of Graduate Studies.

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

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

Second Degree Students

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

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

International Admissions

General Information

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

1. **APPLICATION FORM.** The application should be completed on-line. In order to process applications in a timely fashion, students should submit all requested information by **JUNE 1** for the fall semester and **OCTOBER 15** for the spring semester.
2. **TRANSCRIPTS.** All transcripts should be requested from secondary school(s) and forwarded directly from the school to the Admissions Office. These records must be translated to English and must demonstrate fulfillment of all graduation requirements, which would be the equivalent of the first 12 years of American education.
3. **ENGLISH LANGUAGE PROFICIENCY.** Students from countries where English is not the official language or medium of instruction must have their **TOEFL** scores sent by **ETS** (Educational Testing Service) to Edinboro University Admissions Office. If the **TOEFL** exam is unavailable in a particular country, students must submit alternative documentation to prove English language proficiency. The **TOEFL** institutional code number for Edinboro is **2651**. As of the publication date of this catalog, the minimum **TOEFL** score for admission is 61 Ibt/New Generation, 500 (paper examination), or 173 (computer based).
4. **OFFICIAL FINANCIAL STATEMENT.** The affidavit of support must be received from all students in order to issue a visa document to enter the United States. Edinboro University must be

assured that students will have sufficient funds available to meet all tuition and living expenses. The affidavit of support, accompanied by the sponsor's certified bank statement, should be submitted to the International Student Services Office.

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

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

Upon enrollment, a report of medical history is required.

Instructions for International Transfer Students

1. **CLASSIFICATION.** Students who have been enrolled in any college or university other than Edinboro since secondary school graduation, regardless of length of time attended, are classified as **transfer students**.
2. **TRANSCRIPTS.** **a)** Official secondary school transcripts **MUST** be submitted to the Admissions Office at Edinboro University. **b)** Students who have attended a college or university not located in the United States should have their foreign credentials evaluated by an accredited evaluation service. Applicants must have a "course by course" evaluation. For accredited foreign credential evaluators, please visit NACES (www.NACES.org). **c)** Students who have attended a college or university in the United States must have those official transcripts sent directly to the Admissions Office at Edinboro University.
3. **VISA CLEARANCE FORM.** If students are currently enrolled in school in the United States, a School Transfer Notification form from the current U.S. institution is required. It must be completed by the foreign student advisor or designated school official. This document will attest to the students legal status with the U.S. Citizenship and Immigration Service. Students can find and download the School Transfer Notification form at the Edinboro website: www.edinboro.edu.

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

All fees and expenses are subject to change without notice

Basic Tuition Fees Per Academic Semester

	Pa. Resident	Non-Resident
Undergraduate		
Part-Time (1-11 sem. hrs.)	\$ 231.00	\$ 347.00
Full-Time (12-18 sem. hrs.)	\$ 2,777.00	\$ 4,166.00
Additional charge for each credit over 18 sem. hrs.	\$ 231.00	\$ 347.00
Graduate		
Per Credit Hour	\$ 370.00	\$ 593.00

Basic Tuition Fees Per Summer Session

	Pa Resident	Non-Resident
Undergraduate (per sem. hr.)	\$ 231.00	\$ 347.00
Graduate (per sem. hr.)	\$ 370.00	\$ 593.00

Tuition and Fees for Students Taking Graduate and Undergraduate Courses

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

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

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

Advanced Tuition Deposit

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

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

University Center Fee Per Academic Semester (Including Summer Sessions)

Undergraduate

1-11 credit hours	\$ 21.00 per credit
12 or more credits	\$250.00

Graduate

1-8 credits	\$ 28.00 per credit
9 or more credits	\$250.00

Student Activity Fee Per Academic Semester

Undergraduate

1-11 credits	\$ 14.52 per credit
12 or more credits	\$174.22

Graduate

9 or more credits	\$174.22
-------------------	----------

Student Activity Fee Per Summer Session

Undergraduate

1-11 credits	\$ 10.00 per credit
12 or more credits	\$ 120.00

Graduate

9 or more credits	\$ 120.00
-------------------	-----------

Health Center Fee Per Academic Semester (Including Summer Sessions)

Undergraduate

1-11 credits	\$ 7.90 per credit
12 or more sem. hrs.	\$ 95.00

Graduate

9 or more credits	\$ 95.00
-------------------	----------

Instructional Technology Fee Per Academic Semester (Including Summer Sessions)

	Pa Resident	Non-Resident
Full Time	\$103.00	\$155.00
Part Time	\$ 60.00	\$ 82.00

Housing Per Academic Semester

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

Double Room, per person (2 room)	\$ 2490.00
Double Room, per night	\$ 24.00
Private Room (1 room)	\$ 3,735.00
Private Room, per night	\$ 36.00

Highlands at Edinboro – Room Rates per Academic Semester

Semi-Suite – Double	\$3,000.00
Semi-Suite – Single	\$3,500.00
Suite – Double	\$3,600.00
Suite – Private	\$3,800.00
Single – Semi-Suite	\$4,200.00

Housing for Summer Sessions (per week)

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

Double Room, per person (2 room)	\$167.00
Private Room (1 room)	\$249.00

Highlands at Edinboro – Room Rates for Summer Session (per term)

Semi-Suite – Double	\$1,377.00
Semi-Suite – Private	\$1,683.00
Suite – Double	\$1,683.00
Suite – Private	\$1,836.00
Single Semi-Suite	\$1,913.00

Meals for Summer Housing (per week)

Food, 14 meals	\$70.00
Food, 10 meals	\$63.00

Housing Damage Fees

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

Meals – Plans per Academic Semester

	Meal Plan	Flex Dollars	Total
Food, 19 meals – residence hall	1,200.00	\$450.00	\$1,650.00
Food, 14 meals – residence hall	1,045.00	450.00	1,495.00
Food, 10 meals – residence hall	950.00	450.00	1,400.00
Food, 5 meals – w/o residence hall	590.00	450.00	1,040.00
Block Plan: 125 meals	920.00	450.00	1,370.00
75 meals	605.00	450.00	1,055.00

Application Fee

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

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

Correspondence Course Fee

Full standard fees are charged for correspondence courses.

Course Audit Fee

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

Credit by Competency Examination Fee

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

Late Registration Fee

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

Life Experience Credit Charges

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

Preliminary Application Fee	\$ 25.00
Evaluation Fee	\$100.00
Life Experience Credit Hour Fee	\$ 25.00

Medical Fees

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

Allergy injections		\$ 3.00
Medication	\$ 3.00	\$ 7.00
Crutches (deposit)		\$12.50
Physical Exam Fee:		
Basic		\$25.00
Advanced		\$50.00
Immunizations		At cost

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 \$65.00 is charged to students desiring to take the Miller Analogies Test. Checks should be made payable to Edinboro University of Pennsylvania.

Waiver of Fees for Study Off Campus

Students who are taking all of their credit courses during a semester off campus (anywhere but the Edinboro, Meadville or Porreco campuses) will have the Health Center and Student Activity fees automatically waived for that semester. Students who are taking credit courses on the Edinboro, Meadville or Porreco campuses during a semester must pay the Health Center and Student Activity fees pro-rated according to the number of credits in which the student is enrolled.

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

Senior Citizen Tuition Waiver

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

Special Room and Meal Arrangements

The boarding fee is mandatory for all students who reside in university residence halls; however, students who live off-campus may also take their meals at the campus dining hall. Overnight room occupancy accommodations are available to current students (emergency housing) while guest rooms may be available for approved guests. The room charges are \$20.00 for single occupancy and \$30.00 for double occupancy.

Sundry Charges

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

Competency Examination	\$25.00 per credit hour
Computer Lab Printing	\$5.00
Copying (Library)	.10
Computer Lab Printing excess	\$5.00 per increment
Course Withdrawal Fee (after first week)	\$25.00 per course
Credentials	\$3.00
Distance Learning Fee	\$120.00
Distance Learning Extended Time Penalty	\$25.00
Lost Key - single	\$20.00
Lost Key - master	\$50.00
Returned Checks	\$20.00
Library Fines	\$.15 per day + \$1.00
Orientation Fee	\$20.00-\$70.00
Payment Plan Semester Fee	\$40.00
Payment Plan Late Fee	\$15.00
Vehicle Registration - per year	\$25.00
Vehicle Registration - replacement	\$ 5.00
Parking Violations	\$15.00
Parking Violations Late Fee	\$5.00
Boot Removal	\$50.00
Moving Violation	\$50.00
Traffic Incident Report Requests	\$10.00
Student Identification Card	\$5.00

Transcripts

In accordance with Public Law 93-380 (Educational Amendments-Family Education Rights and Privacy Act, 1974) transcripts will only be released if the individual submits a written request to the Office of Records and Registration requesting the issuance of an official transcript. No telephone or email requests for transcripts will be honored. Since graduate and undergraduate records are maintained separately, a student should clearly indicate his or her request is for an undergraduate or graduate transcript. The fee schedule for transcripts is as follows:

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

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

Instructional Service Fee

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

Undergraduate	10 percent of tuition
Graduate	15 percent of tuition

Direct Deposit of Financial Aid Refunds

Edinboro University has a coordinated system of disbursing financial aid funds. All financial aid programs are administered by the University's Financial Aid Office. Once funds are disbursed to pay tuition, fees, room and board, the Bursar's 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 in the Bursar's Office or the Accounting Office. Anyone not choosing direct deposit will continue to receive a university check for any excess funds.

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

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

Full payment, or proof of awarded financial aid, is required to complete the registration process. The check or money order for these fees should be made payable to Edinboro University of Pennsylvania. Payments are accepted at the Bursar's Office. Credit card payments and check debit payments may be made on the web at www.edinboro.edu, keyword: *ebill*.

Students receiving bank loans, such as Stafford Student Subsidized and/or Unsubsidized Loans, or Parent Loans, not already shown as an anticipated credit on their bill must provide written evidence of loan approval to the Bursar's 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) including the borrower's signature to credit the student's account. Students receiving private bank loans from institutions that do not participate in electronic funds transfer **must** endorse (sign) their loan checks in the Bursar's Office. No transactions are made with a loan check until it has been endorsed.

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

eBilling is a web-based system on a secure internet site (accessed via your S.C.O.T.S. ID). 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), debit card and credit card. For more information and answers to frequently asked questions, logon to S.C.O.T.S. (www.edinboro.edu).

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 STATE SYSTEM OF HIGHER EDUCATION, AS APPROPRIATE.

Refund Policy

Intent

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

Policy

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

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

I. Total withdrawal from the University (All semesters/sessions)

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

- Voluntary Total Withdrawal after first scheduled class meeting. Students officially and totally withdrawing after the first class meeting may seek refunds for tuition, health center fee, University Center fee, instructional service fee, room and meals, if applicable, and student activity fee according to the following schedule:

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

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

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

- Involuntary withdrawal after first scheduled class meeting
Refunds are not available when a student has been suspended or expelled from the University for disciplinary reasons or for non-payment of fees or other financial reasons.

II. Other refunds (All semesters/sessions)

1. Room charges

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

2. Food service charges

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

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

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, 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. If a student plans to withdraw during the last five weeks of the semester, the student must meet with the Assistant Vice President of Financial Aid, the Bursar, or the Registrar, located in Hamilton Hall, to discuss their request. During the last five weeks of the semester, or the equivalent period during a summer session, students will receive grades of WP (withdraw passing) or WF (withdraw failing). 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 Accounting Office for processing to the vice president for finance and administration for approval. Requests for cash refunds must be in writing. Exceptions of appeal to the refund policy will be considered through written request to the Office of the President of the University or their designee.

FINANCIAL AID PROGRAMS

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

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

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

Satisfactory Academic Progress (SAP) Policy for Financial Aid Recipients

Edinboro University of Pennsylvania has developed standards of Satisfactory Academic Progress (SAP) in accordance with federal regulations. This policy measures quantity (number of credits completed), quality (cumulative grade point average), and maximum time frames for completion and measures progress incrementally.

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

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

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

Undergraduates		
At the end of semesters#	% of hours attempted** that must be completed	Minimum G.P.A.
1	70%	1.50
2	70%	1.67
3	70%	1.85
4	70%	2.00
5	70%	2.00
6	70%	2.00
7	70%	2.00
8	70%	2.00
9	70%	2.00
10	70%	2.00
11	70%	2.00
12	70%	2.00
13	Ineligible to receive financial aid	

Medical technology majors will have SAP reviewed after each spring term.

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 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).

Failure to Meet SAP Requirements – Probation/Suspension

Any student who fails to meet SAP requirements will be placed on **financial aid probation** for one semester. If at the end of the probationary period the student does not meet the requirements for SAP, all aid will be cancelled. Students who are on probation 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 probation are further encouraged to consult with a financial aid counselor prior to withdrawing from any classes or if midterm grades are failures.**

Students who fail to meet the requirements of probation are placed on **financial aid suspension and are no longer eligible for federal financial aid (which includes student loans).**

Reinstatement of Aid

Aid may be reinstated by meeting the requirements for SAP or by an approved appeal. 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 traumatic experiences) may do so by submitting a letter of appeal **and supporting documentation** to the assistant vice president for financial aid within **ten 10 days** of the date of notification that aid has been cancelled.

All appeals must:

1. Identify the mitigating circumstances that led to SAP not being maintained.
2. Provide supporting documentation, e.g. statement from the doctor, death notice, etc.

3. Identify and have approved by the academic advisor and/or counseling center personnel, a plan to correct academic deficiencies.
4. **Must be signed by the student.**
5. Include your Edinboro University of Pennsylvania identification number, or social security number, and current address.
6. Must be legible.

The assistant vice president for financial aid will notify the student of the decision to reinstate or deny aid. If approved, conditions may apply. If the conditions are not satisfied, aid may be denied in a subsequent term. As described in the federal regulations, **all decisions at this point are final.**

All initial and subsequent appeals, supporting documentation and corrective plans of action must be received within ten (10) days of notice. The committee **will not review** incomplete and/or partial appeals. All documentation is retained by the Office of Financial Aid 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 \$400-\$5,550 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 Academic Competitiveness Grant (ACG) The ACG is awarded to Pell eligible students, enrolled full-time, US citizens only. Students must have completed an academically rigorous high school program based on standards established by the federal government. Students may be enrolled in any major. The award for the first year students is \$750.00. Second year students maximum award is \$1,300.00. Students are required to maintain a 3.0 Grade Point Average.

The National Science, Mathematics to Attract and Retain Talent (SMART) is awarded to Pell eligible students enrolled in specific science and mathematics majors and taking the appropriate courses. Students must be enrolled full-time, US citizens, and maintain a 3.0 grade point average. The maximum annual award is \$4,000.

Federal Supplemental Educational Opportunity Grants (FSEOG)

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

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

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

II. Scholarships

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

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

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

Edinboro University Scholarships - Edinboro University offers a wide variety of scholarships with different criteria. Scholarships are based upon scholastic achievement, major program of study, athletic prowess, class rank, financial need or a combination of these criteria. Funds for the various scholarship areas are made available through donations by private industry, by faculty, staff and community contributions and through private endowments.

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

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

Scholarship information is available on the Internet.

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

III. Loans

Federal Stafford Loans - The federal government provides two Stafford Loan programs. The Federal 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 pay 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	Additional Unsubsidized Amount Stafford
Freshmen (0-29 credits)	\$3500	\$4000
Sophomore (30 - 59 credits)	\$4500	\$4000
Junior (60 - 89 credits)	\$5500	\$5000
Senior (90-120 credits)	\$5500	\$5000
Graduates (enrolled in Grad program)	\$8500	\$12,000

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 \$5,000 Unsubsidized Stafford Loan limits.)

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

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

Federal Perkins Loan - The Perkins Loan Program is awarded to students with exceptional need based using Edinboro's criteria and on completion of the FAFSA. Awards range between \$200 and \$1,500. 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 loan/s received.

Nursing Loans - This program is intended to assist students to achieve careers in nursing by providing long-term, low-interest loans to help meet the costs of education. The maximum loan is \$2,500 for an academic year or the amount of financial need, whichever is less. 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. Five percent interest accrues during the repayment period. Payments may be deferred up to three years during military service, Peace Corps participation or periods of full-time advanced professional training in nursing.

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

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 none citizens are required to complete the FAFSA to receive student employment. Students who receive student employment awards are not guaranteed a job. Students are required to actively engage in acquiring employment. Depending on the program students may work 12 - 20 hours per week at no less than minimum wage.

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

Institutional Work Study The institutional work study program is not 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, GAs receive a waiver of tuition proportioned to their appointment.

Academic Year and Enrollment Requirements

Students are required to be enrolled in a degree or certificate program in order to be considered for Federal Title IV student aid including PELL and supplemental grants, Perkins and Stafford loans, and college work-study programs. Grants and loans are reduced proportionately for part-time students. State grants require half-time attendance or a minimum of six semester hour credits attempted each term. Student withdrawals from classes during the rebate period (first five weeks of the semester) will limit the full-time or part-time enrollment designation. Full withdrawal from all classes will result in restricted student aid program eligibility. 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 Federal Stafford Loans
- Subsidized Federal Stafford Loans
- Unsubsidized Direct Stafford Loans (other than PLUS loans)
- Subsidized Direct Stafford Loans
- Federal Perkins Loans
- Federal Parent (PLUS) Loans
- Direct PLUS Loans, ACG and SMART Grants
- 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., LEAP)

STUDENT AFFAIRS

The mission of the Division of Student Affairs is to anticipate, plan for, and respond to the needs of a diverse student body in a constantly changing world. This is accomplished by providing programs and services that enhance learning and personal growth. Collaborative efforts with other campus and community entities are fostered to establish a supportive and challenging learning environment, encourage student involvement in shared governance, and create a community essential to advancing the University's goal of excellence.

Student Judicial Affairs

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 Judicial Affairs provides the due process through which allegations of misconduct are adjudicated. Copies of the Student Code of Conduct and Judicial Procedures are available at the Office of Student Judicial Affairs in Lawrence Towers and on the University website.

Student Health Services

The University is genuinely concerned that students remain in their maximum state of health and wellness. Student Health Services is available to provide health care and health education for students. The wellness approach to health care is of utmost importance to the staff of Student Health Services. Maintaining a healthy student population increases class attendance, and improves overall academic performance. Student Health Services is staffed by licensed family physicians, certified registered nurse practitioners, and registered nurses certified in the college health specialty. In 2007 the Student Health Services was accredited by the Accreditation Association for Ambulatory Health Care. This distinction is shared by only eleven student health centers in the state of Pennsylvania. The goal of the staff is to promote wellness, healthier lifestyles, provide health education, increase health consumer awareness, and encourage self-care responsibilities. A wide referral base is maintained for any expertise needed to treat the student. Ambulance service is available from the local community fire department and is utilized at the student's own expense or his/her insurance carrier. Extreme confidentiality is maintained and information will not be released without the student's written permis-

sion. Students are encouraged to have open communications with their family or significant other. Short-term observation is available if the staff feels it would be appropriate. A sample of services available at the Health Center include: illness and injury diagnosis and treatment TB testing, allergy injections, physicals, STD testing, pap tests, birth control, immunizations, domestic violence counseling, HIV/AIDS counseling and testing, drug and alcohol counseling, sexual assault counseling, educational programs, weight management, eating concerns, nutrition, stress management, and sexual health. For additional information, please call to schedule an appointment with our professional staff at 814-732-2743.

Counseling and Psychological Services

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

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

CAPS provides services to enrolled students without charge on a short-term basis with a focus on facilitating personal and academic growth. The faculty includes psychologists 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 Sexual Violence Victim Advocate and Wellness Peer Educator programs are coordinated by this office.

Hours are 8:00 a.m.-5:00 p.m., Monday through Friday, during each semester, except when the University is officially closed. Appointments are requested and can be made by phone or in person. At times there may be a waiting list to initiate services, except for emergencies. All services provided are held strictly confidential. For additional information, call 814-732-2252 or visit us at www.edinboro.edu, search: CAPS.

Student Government Association

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

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

SGA also operates a convenience store in the Pogue Student Center and provides a shuttle service for on and off campus transportation needs. All students are encouraged to learn about and participate in their Student Government Association. We welcome you to attend our weekly meetings held every Monday at 5:00 pm in the Zahorchak Seminar Room of the Pogue Student Center.

University Center Information Desk

The University Center information desk is located on the first floor lobby of the Pogue Student Center. This office provides an information exchange for faculty, staff, students and the general university community. The information desk is staffed from 7:30 a.m. to 11:00 p.m. while classes are in session. The telephone number is 814-732-2842. Information that can be obtained at the information desk include:

- University and student organization meeting information
- Phone numbers for offices, faculty and staff
- Frequently requested local phone numbers
- Events and activities announcements
- University Programming Board sponsored events information
- Student Government Association updates and information
- University concert series information
- University Center programs and activities
- Edinboro varsity and club sports schedules
- Other general University information

Student Organizations

- Inter Fraternity Council
- Panhellenic Council
- National Pan Hellenic Council
- AFRICA (Alliance for Racial Identity and Cultural Acceptance)
- Afrikan Student Association
- Alpha Chi
- Alpha Gamma Delta
- Alpha Epsilon Lambda (Alpha Nu Chapter)
- Alpha Phi Omega
- Alpha Phi Sigma
- Alpha Psi Omega
- Alpha Sigma Alpha
- Alpha Sigma Lambda
- Alpha Sigma Tau
- Animation Club
- Anthropology Club
- Art Education Club
- Asian Club
- Astronomy/Planetarium Club
- Beta Beta Beta
- Campus Crusade for Christ
- Chi Sigma Iota
- Chess Club
- Christ for Life
- Circle K Club
- Clay Club
- College Republicans
- Commuter Club
- Company
- Computer Science Club
- Council for Exceptional Children
- Counseling Club
- Criminal Justice Club
- Dearborn Hall Council
- Delta Alpha Pi - Beta Chapter
- Delta Mu Delta
- Delta Zeta
- Drawing and Painting Club

Earp Hall
 Edinboro Gaming Guild
 Edinboro Student Craving Anime (ESCA)
 Emergency Service Organization
 English and Humanities Club
 Equestrian Team
 Exercise Science Club
 Fencing Club
 Film Club
 Future Elementary Educators
 Golf Team
 Graduate Social Work Association
 Graduate Student Council (GSC)
 Graphics Design Club
 Green Party
 Health and Physical Education's Major Club
 Historical Combat Association
 History Club
 Identity
 International Students Affiliation
 Iota, Iota, Iota (Women's Studies Honor Society)
 Kappa Alpha Psi
 Kappa Delta Pi
 Kappa Delta Rho
 Karate Club
 Latin American Studies Association
 Latino Student Organization
 Lawrence Tower A & B
 Literary Club
 Medieval Society of Edinboro
 Men's Club Volleyball
 Metals Club
 Music Education National Conference (MENC)
 Muslim Student Affiliation
 National Council of Teachers of English and Language Arts
 Newman Student Association
 Phi Alpha Social Work (Honor Society)
 Phi Kappa Psi
 Phi Epsilon Kappa
 Phi Mu Alpha (SINFONIA Men's Music Fraternity)
 Phi Sigma Pi (National Honor Fraternity)
 Philosophy Club
 Photo Club
 Physics & Engineering Club/Sigma Pi Sigma
 Pi Mu Epsilon
 Political Awareness Club
 Pre-law Society
 Psychology Club
 Public Relations Student Society of America (PRSSA)
 Residence Life Council
 Rifle Club
 Rose Hall Council
 School Psychology Club (Graduate Club)
 Sigma Gamma Epsilon (Earth Science Honor)
 Sigma Pi Epsilon Delta
 Sigma Sigma Sigma
 Sigma Tau Delta (International English Honor Society)
 Social Work Club
 Speech and Hearing Club
 Student Art League
 Student Community Outreach Through Serves(SCOTS)
 Student Dietetic Club
 Student Government Association
 Students of Edinboro for Environmental Defense (SEED) (formerly Environmental Studies/Geography Club)
 Students Interested in Expanding their Horizons (SIXTH)
 Student Nurses Organization of Edinboro (SNOE)
 Student Parent Association (SPA)
 Student Pennsylvania State Education Association (SPSEA)
 Tau Kappa Epsilon
 Theta Chi
 Theta Xi
 Ultimate Frisbee
 United Brothers of Edinboro
 United Nations
 University Players
 University Programming Board (UPB)
 Zeta Tau Alpha
 Adapted Intramural and Recreational Sports (A.I.R.S.)
 AIDS Awareness
 Alcohol Awareness
 Alternative Film Festival
 Bruce Gallery
 Center for Outdoor Recreational Experience (C.O.R.E.)
 Chimera
 Cultural Affairs
 Diversity Funding Board
 Dramatic Activities
 Edinboro Choral Ensemble
 Edinboro Theatre for Young Audiences
 Edinboro University of Pa. Cheerleaders
 Edinboro University of Pennsylvania Marching Band (Fighting Scots)
 E-TV (Edinboro television)
 EUP Band
 Family Weekend
 Fighting Scots Adapted Athletics
 Fitness Center
 Forensics Club (Debate)
 Freshman Orientation
 Graduate Professional Development Program
 Highland Ambassadors
 Highland Games
 Homecoming
 Jazz Ensemble
 Leadership Edinboro
 Pep Band (meets second semester only)
 Percussion Ensemble
 Performing Art Series
 Pipe and Drums of EUP
 Recreational Sports (formerly Intramurals)
 SnowFest
 Spectator (campus newspaper)
 Spirit of the Scots Marching Band
 Student Concert Series
 Symphonic Wind Ensemble
 UC Operations

United Voices of Edinboro
University Programming Board
WFSE (campus radio)
Women's History Month

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

Volunteer Service

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

Campus Life

The Campus Life Office hosts a number of events throughout the year that are planned and coordinated by students, for students. The University Programming Board is the central event planning group for the campus. This student-run committee provides entertainment and activities for all students. The purpose of these events is to enhance the educational, cultural, social, and recreational aspects of the university experience. Activities include speakers, comedians, recreation, and a wide variety of other events that are free to students. The University Programming Board also oversees the Student Concert Committee, Homecoming Committee, Welcome Week Committee, and SnowFest Committee.

The Student Concert Committee is an organization funded by Student Government Association, and is led by a student concert director, along with a student committee. The series hosts multiple concerts throughout the school year, bringing in music from all types of genres for students to enjoy.

Homecoming is one of the largest events Edinboro University offers. Led by a student chairperson, Homecoming activities include Homecoming king and queen elections, and the ever-popular Homecoming parade.

To celebrate the many snowy days in Edinboro, SnowFest is a weeklong event of fun-filled snow activities that are open to the entire Edinboro community. This student-run event offers activities that include a planetarium show, talent show, a snow carnival, and the snow king and queen pageant. This festival allows all Edinboro residents to enjoy the wonderful, long winter season.

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

Alpha Phi Alpha
Alpha Kappa Lambda
Kappa Alpha Psi
Kappa Delta Rho
Lambda Chi Alpha
Omega Psi Phi
Phi Beta Sigma
Phi Kappa Psi
Phi Mu Alpha
Tau Kappa Epsilon
Theta Chi
Theta Xi

Sororities

Alpha Gamma Delta
Alpha Sigma Alpha
Alpha Sigma Tau
Delta Zeta
Sigma Sigma Sigma
Zeta Tau Alpha
Zeta Phi Beta

Adaptive Athletic Program

Edinboro University offers a unique opportunity for students with disabilities. The adaptive athletic program offers students with disabilities opportunities in athletic competition. The University offers competition in wheelchair basketball and power lifting. Edinboro was honored to host the 30th Annual National Intercollegiate Wheelchair Basketball Tournament in March 2007.

Fitness Center

The Fitness Center is located on the ground floor of the Pogue Student Center. Two gymnasiums, three racquetball courts, combative sports room and men's and women's locker rooms each with a sauna and steam room as well as a Climbing Gym, elevated track, two aerobics rooms, free weights, circuit training machines and cardio equipment are all available for student use. Also located within the Fitness Center is an equipment room where students can check out a variety of sports balls and equipment.

Recreational Sports

The Recreational Sports Program is located in the Fitness Center of the Pogue Student Center. Looking to participate in a structured recreational sports activity? Stop by and check out all the action! Sports are offered in men's, women's and coed leagues and tournament format in the following sports: basketball, flag football, soccer, tennis, volleyball, racquetball, softball, table tennis and more.

Campus Outdoor Recreational Experience (CORE)

The Campus Outdoor Recreational Experience provides the campus community with additional outlets for the expenditure of leisure time. Outdoor recreational trips complete with equipment rentals include white water rafting, skydiving, caving, inline skating, mountain hiking, alpine and cross country skiing, tubing and snowboarding. Interested students may also take instructional non-credit mini-courses in scuba diving, canoeing, bicycle repair and backpacking.

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, 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 close to 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. Six teams competed in their respective NCAA championships, including football; men's cross country, volleyball, men's and women's swimming and wrestling. The men's cross country team won the Atlantic Region championship and the wrestling team won its 11th PSAC championship in the last 13 years. The wrestling team also captured its eighth straight Eastern Wrestling League crown and 12th in the last 13 years.

Individually, seven student-athletes earned All-American honors and Jarrod King was named EWL and PSAC Wrestler of the Year, with wrestling head coach Tim Flynn named PSAC Coach of the Year.

Edinboro wrestling competes on the NCAA Division I level, whereas all other remaining sports participate in Division II. Fighting Scots teams compete as representatives of the Pennsylvania State Athletic Conference while the wrestling team is also part of the prestigious Eastern Wrestling League.

The University offers varsity competition in the following 17 sports: **men's** basketball, cross country, football, swimming, track and field, wrestling; **women's** basketball, cross country, soccer, softball, swimming, indoor and outdoor track and field, and volleyball. In addition, Edinboro's newest sport, men's and women's tennis, will debut in 2010-11.

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 served as the host of the 2010 PSAC Indoor Track & Field Championships, 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, installed in 2007, along with the addition of lights. The facility's track was redone the year before.

McComb Fieldhouse, the largest on-campus arena in northwestern Pennsylvania, has also seen extensive renovation. The basketball court was refinished in 2007, and a new weight room and aerobics center opened in the fall of 2007. 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.

Residence Hall Facilities

Edinboro University offers a blend of contemporary housing in suites as well as traditional residence hall communities. The Highlands at Edinboro University is the largest single new building project undertaken in Edinboro's 150-year history, as well as one of the largest economic development projects in northwestern Pennsylvania. Over \$110 million is being spent to construct residential communities that offer students more privacy in their living options while remaining in close proximity to classes, the student center, dining area, and all of the campus athletic venues. The Highlands at Edinboro University is among the most energy efficient residence halls in the nation, using geothermal energy technology for its climate control systems; it has been designated as a silver LEED project. Both The Highlands and

traditional housing offer convenience and commitment from the university community to promote student success. In all residence hall rooms each student has individual furnishings that include a bed, dresser, desk, desk chair and wardrobe/closet. High-speed Internet access and digital cable television services are included in the room fee. Phone service is provided in traditional halls, and may be selected by those in The Highlands at an additional fee. All residence halls feature common lounges with wireless access, recreation areas, television lounges, vending/snack equipment and coin operated laundry facilities.

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 many of the living units. Beyond the equipment that is available, the halls are staffed by well trained professional students and employees who work to maintain a safe and secure environment. Safety education is on-going in the hall communities. In addition, the university police and fire safety officer participate in staff and student education programs.

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

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

Center for Career Development

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

The Office of Adult Student Services

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

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

International Student Services

International Student Services at Edinboro University is founded upon a recognition of the diversity of the world in which we live. The curricular and the co-curricular activities offered by the University reflect the cultural diversity of the University community and the commitment to intercultural and international understanding.

Edinboro University provides a comprehensive international program encompassing a wide variety of programming and services to international and domestic students. It also provides educational opportunities in cooperation with colleges and universities abroad.

Students are recruited from around the world. Complete information for prospective students from abroad is available from the Undergraduate Admissions Office or on the International Student Services website at <http://cms.edinboro.edu/departments/international/main.dot?host>

Study Abroad

The first step for any Edinboro University student who is interested in a study abroad experience is to visit in the International Student Services Office. The International Student Services Office assists students in clearing their study abroad plans through Edinboro University and in understanding Edinboro University's policies on study abroad. After initial visits, students may schedule appointments to receive individualized guidance in their planning an international educational experience. This experience can range from a short-term experience (two to five weeks) or a semester or year abroad experience.

Edinboro University offers short-term, for-credit, Study Abroad programs at various sites around the globe for all students. Programs are offered in the summer and throughout the academic year, during intersessions and break periods. The sites and courses taught change annually. In the past, programs have been offered in Italy, England, Scotland, Poland, China, Mexico, Cuba, and Bahamas.

Multicultural Affairs

The Multicultural Affairs Office is 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.

The Multicultural Affairs Office supports activities of various student organizations including but not limited to the Alliance for Racial Identity and Cultural Acceptance (A.F.R.I.C.A.), Identity, International Students Affiliation, Iota Iota, Iota, Latino Student Organization, The United Brothers of Edinboro, the historically Black Greek Letter Organizations and United Voices of Edinboro. These organizations are established to celebrate cultural diversity and to provide support for the special needs of underrepresented students. Participation on the groups' activities is open to all students who are interested.

Off-Campus Facilities

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

Commuting

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

Parking on Campus

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

For additional information or assistance concerning parking on campus, a copy of the Edinboro University Student Vehicle Registration and Parking Regulations may be obtained from the University Police or viewed at any time on the University Police web site at: <http://www.edinboro.edu/departments/police/>. The University Police may be contacted at any time at 732-2700 for assistance.

Office for Students with Disabilities

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

The Office for Students with Disabilities employs over 200 full-time, part-time and student employees to provide these services. Professional staff include the director, assistant director, learning disabilities coordinator, occupational therapist registered/licensed, registered nurse supervisor, and assistive technology/writing specialist.

Identification Cards

Identification cards can be obtained at the Dining Services and ID Office located in the Van Houten Dining Hall lobby Monday through Friday, 9-11 a.m. and 2-4 p.m. (or other times by appointment). University policy requires that all students, faculty and staff carry the Edinboro University ID card at all times while on campus. ID Cards

are required for accessing your meal plan, door access, fitness center admittance, charging books to Financial Aid at bookstore, getting parking passes, checking out books at the Baron-Forness Library, and will provide entry into University athletic games and cultural events. The ID card can also be used as an ATM card if you have a PNC bank account. The ID cards are valid as long as the holder is associated with the University and is in good standing. Initial card cost is \$5.00 and replacement card cost is \$10.00.

Dining Services

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

- **Van Houten Dining Hall** - the all-you-can-eat residential dining center. The "Marketplace" layout features spatial separation of the different menu concepts and is a break from the traditional straight line cafeteria. Comfort foods, ethnic cuisine, vegan and vegetarian options, and traditional favorites are offered daily. **Morning Editions** offers full breakfast bar, eggs and bacon to order, and a wide assortment of continental items, fruit, yogurt, and cereals. Lunch and Dinner feature varied options at the **Fresh Grille, Trattoria, Sandwich Central, Rice Grains & Veggies, Terra Ve, Menutainment, & Culinary Table**. Whether you are feeling adventurous or wanting to stick with favorites there is something for every taste and appetite. We are especially proud of working with Edinboro Food Bank and helping to feed local area shut-ins on a daily basis. So take as much as you want, but please be mindful to eat all you take. A lot of good is done with the portions left in the pan.
- The **Celtic Court** at the Frank G. Pogue Student Center is a convenient space for a quick bite, a study break, or as a gathering place. Special care and quality ingredients are used at their Grill Station as well as their Wrap Station. **Pazzelli's** fine house recipe sauces make our pizza and pasta dishes stand apart. Have your pasta served in a freshly baked bread bowl for a unique and filling entree. On the run? Grab an Outtakes salad, sandwich or dessert.
- Looking to plug in or chill out? Either way the **Cyber Café** offers wireless and wired connectivity, a fitness room view, multiple flat screen televisions, and some of the best Caribou coffee drinks, smoothies, Panini sandwiches, and Au Bon Pain soups you could hope to find. Located in the Frank G. Pogue Student Center.
- **Skipjack's** at Rose Hall is the finest retail food court in the Pennsylvania State System of Higher Education. **2-Mato** serves thin crust pizzas that are a cut above the norm. **Mondo's Subs** combines fresh baked rolls with the freshest ingredients and are prepared both to order and to individual taste. Hankering for Mexican food? **Habanero's** combines fast food affordability with family restaurant quality. An added bonus to this location is a Grill Station with burgers, chicken, fries and more The front side of this

space is home to **Edy's Ice Creamery** featuring hand dipped ice creams, shakes, sundaes and fresh baked cookies. **Seattle's Best** offers up industry leading coffee drinks, Outtakes, and **Scots Chocolates**.

- The Baron-Forness Library houses our flagship **Starbucks** location. You can get an Outtakes sandwich or salad as well as Creamice and teas. Be sure to take advantage of the outdoor seating area and walk-up window when (if) weather permits!
- **Sandella's** award winning flat bread and specialty sauce program can be found on the main level of Van Houten Dining Hall. Whether you are looking for pizza, quesadilla, wraps, or rice bowls... Sandella's ingredients can be combined to satisfy. Hot or cold, meat lover or vegetarian, you can't go wrong here.
- **Doucette Outtakes** wall mall features our prepared daily Outtakes, Starbucks brew program, and Scots Chocolates in a convenient stop off.

Program Highlights

- Five retail locations are operated on an *la carte* basis and feature "meal cash credit" for students enrolled in any of the meal plans. If food selections are greater than the meal cash credit value, you may access your flex account or pay cash to cover additional costs. Daily meal specials are offered to meet the meal cash credit value in order to provide a complete meal. The Marketplace will continue to be the "all-you-can-eat" location allowing students to select additional items without additional cost.
- Plans designed specifically for resident and off-campus students are available. It is required for all students residing in the residence halls to participate in the meal plan program. Underclassmen (students living on campus for two or less semesters) must participate in one of the following meal plans: 19, 14, 10 meals per week, the Unrestricted plans or the 210, 175, 150 or 125 block plan with or without flex. Upperclassmen (students living on campus for 3 or more semesters) must participate in one of the following meal plans: 19, 14, 10, or 5 meals per week, the Unrestricted plans or the 210, 175, 150, 125, 105, 75 or 60 block plan with or without flex. Off-campus and commuter students can participate in any meal plan offered. A student ID is required to use your meal program and flex account. Meal plans run from Monday breakfast through Sunday dinner. Block plans run per semester. Meal programs are not transferable.
- **FLEX DOLLARS** - This pre-paid account offers meal plan members the opportunity to make purchases above the meal cash credit. Participants in all the meal plans with flex may add to their flex dollar accounts at any time with a minimum of \$25.
- **CELTIC COIN ACCOUNTS** - A flex only account for off-campus students who buy fewer meals but would still like to have a pre-paid account. Requires a minimum purchase of \$100.
- **Off-Campus Students** may also choose from all available meal programs: 19, 14, 10, or 5 meals per week, the Unrestricted plans or the 210, 175, 150, 125, 105, 75 or 60 block plan with or without flex.
- Students participating in the dining service programs are required to abide in accordance with all relevant dining service rules and regulations.

F

*Academic
Affairs
Information*

ACADEMIC AFFAIRS

Introduction

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

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

University Policy Manual

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

Policy # Policy Name

001	Alcoholic Beverages
002	Confidentiality and Privacy of Student Records
003	University Related Advisorship
004	Earning Course Credit by Examination or Evaluation
005	University Procedures for Responding to Off-Campus Student Behavior Complaints
006	Listing of Code Approved Student Housing
007	Student Activity Fee Adjustment
008	Americans with Disabilities Act/Act 504 Student Accommodation
009	Graduation Requirements
010	Kitchen Use/Cooking in Residence Halls
011	SGA Restricted Accounts
012	Disciplinary Procedures and Student Code of Conduct
013	Residence Hall Use by Students During Vacation and Selected Periods of Non Attendance
014	Change of Major
015	Satisfactory/Unsatisfactory Grades
016	Student Trustee Selection
017	Transfer Student Prior Conduct Review
018	Self Medication
019	Transfer Standards
020	Student Organization Activities
021	Student Entry and Retention in Teacher Education

022	Repeating Courses
023	Academic Probation and Suspension
024	University Recognition of Student Organizations
025	Student Organization Advisors
026	Campus Residency Requirements
027	Housing Deposit for Residence Hall Students
028	Undergraduate Degree Completion
029	Death of a Student
030	Fresh Start
031	Academic Reinstatement
032	Admissions
033	Insurance for Resident Students' Possessions
034	Dean's List Requirements
036	Disruptive Behavior in Supervised Situations
039	Student Name Change
040	Honors Program
041	Auditing of Courses
042	Student Withdrawals from the University
043	Housing for Students with Disabilities
044	Student Activity Contracts
045	Anti Hazing
046	Mental Health Emergencies
047	Time Limitations on Meeting Master's Degree Requirements
048	Student Teacher Reassignment in the Event of a Work Stoppage
050	Transfer of Graduate Credit
051	Trial Admissions Program
052	Awarding Continuing Education Units
053	Student Fund Raising
055	STD Prevention and Control
056	Honors Convocation
057	Student Appeal of Assigned Grade
058	Housing and Food Service Request Release
059	Student Victims of Sexual Assault
060	International Student Housing
061	Transcripts
062	Class Attendance
063	Inactive Courses
064	Dual Numbering of Courses
065	Student Vandalism of University Property
066	Retention of Job Placement Credentials
067	Visiting Student Program
068	Use of University Center by Student Organizations

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 on student progress. Students are urged to work carefully with their advisors to plan and to follow an academic program that meets academic and personal needs, realizing that program completion expectations may vary from initial expectations.

Simultaneous Degrees

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

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

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

Dual Majors

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

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

Confidentiality and Privacy of Student Records

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

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

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

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

Standard Grading System

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

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

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

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

I	Incomplete**
WP	Withdrawal while passing. The student withdrew from the course after the withdrawal period, with special permission from the dean of his/her major area of study.
WF	Withdrawal while failing. The student withdrew from the course after the withdrawal period, with special permission from the dean of his/her major area of study.
*	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.

Special Withdrawal: WP and WF 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.

Satisfactory/Unsatisfactory Grading System (S/U)

1. The satisfactory-unsatisfactory option will be open to any undergraduate student who at the beginning of the semester is in good academic standing and has more than thirty-one (31) earned semester hours.
2. Students wishing to exercise the S/U option must do so during the "ADD" period of registration, as established each semester by the University, or during the first two days of each summer session. The student must file a proper request with the Registrar. After opting for an S/U in a course, the student may NOT reverse the option and elect to take a regular letter grade in the course.
3. A student will receive a final grade of S(satisfactory) for C or better work or U (unsatisfactory) for D or below D level, for a course taken under the S/U standard where a dual grading system exists.
4. Courses for which a satisfactory grade is earned will count toward graduation. The grade will not affect the student's grade point average. Courses for which an unsatisfactory grade is received, will not count toward graduation. The grade will not affect the student's grade point average.
5. Departments may, with the appropriate committee and University Senate approval, offer courses that are graded entirely according to the satisfactory-unsatisfactory standard. All other courses are optional S/U courses in which students will receive a grade according to the standard for which they are registered.
6. Student teaching will be graded on a letter grade basis unless the student elects, during the add period, to receive a S/U grade. Failure to request the S/U grade will result in letter grading.
7. No student may exercise the satisfactory/unsatisfactory option in more than four (4) courses in which a dual grading system is utilized, as part of their undergraduate degree program. A maximum of one course each semester and one each summer may be taken on a satisfactory/unsatisfactory basis.
8. No students will be permitted to use the S/U option for any courses that are required for their major, unless the course has been approved for grading on the S/U basis as established in Item Five (5) above.

9. In courses with some students on the traditional grading system and others electing the course S/U the instructors will not know which students are taking the course S/U. The traditional final grade for the course will be recorded and submitted by the professor to the Office of Records and Registration. The Office of Records and Registration will convert the traditional grade to either S or U for inclusion on the student's record.
10. Only those courses which are offered solely on a S/U basis may be repeated under the satisfactory-unsatisfactory option.
11. A student who elects a course or courses under the S/U option and who then transfers to a major for which that course or courses are required will be allowed to transfer S/U courses for credit. Such transfer will be at the discretion of the dean of the school into which they are transferring and after consultation with the appropriate department chairperson.
12. Any course that is not offered on a continuing basis, i.e., once in every three semesters, is identified in the schedule with a recommendation that students enrolling in such a course should have a minimum GPA of 2.00 and/or be alerted to using the S/U option (since it may be impossible for a student to repeat such a course). Students are cautioned that the S/U option is not applicable for any course required for their major.

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

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

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

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

Student Appeal Procedure

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

Grade Appeal

Intent

This policy provides for due process in the rare instance when a student believes that a final grade assigned in a course is erroneously calculated or recorded, or is a result of prohibited discrimination by the course instructor. It also provides a remedy in cases where the hearing process sustains the student's claim.

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 25 calendar days after the beginning of the semester following the issuance of the grade. Summer school shall not constitute a semester.

With the exception of the grade, no part of this procedure will become a part of any individual's university record or file.

Appeals Procedure

1. The student should initiate the appeal by consulting on an informal basis with the faculty member who gave the final grade. If no satisfactory results are achieved, then the student may continue the appeals procedure.
2. All grade appeals shall be made by the student, in writing, 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.
3. 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) University calendar days to the Registrar. Should the faculty member find in favor of the grade as given, the student shall be notified, in writing, within ten (10) University calendar days.
4. 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) University 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. A copy should be delivered to the department chairperson.
5. The committee shall hold a hearing within ten (10) University calendar days following the student appeal. Both the faculty member and the student involved shall be invited to attend. The committee shall have the power by simple majority vote to decide cases involving grades erroneously calculated or recorded or where prohibited discrimination is alleged. Should the committee find in favor of the student, a recommendation of a grade change shall be sent to the dean of the appropriate school. The dean shall thereafter submit the grade change form to the Registrar after the department chairperson has initialed the grade change form. A tie vote of the committee upholds the faculty member's decision. No student or faculty member shall sit in judgment if he/she is involved in the case. With the exception of the grade, no part of this procedure shall become the part of any individual's (faculty or student) university record or file.
6. In cases where the student alleges that the final grade is based on prohibited discrimination, the student may, within ten (10) University calendar days after being notified of the committee's decision, appeal a negative decision of the departmental Academic Appeals Committee to the president of the University or his/her designee. The president or his/her designee shall hold a hearing within ten (10) University calendar days. The faculty member, the chairperson of the Academic Appeals Committee, the student involved and the University Affirmative Action Officer shall be invited to attend. The president shall have the right to direct the change of the grade where he/she finds that the grade decision was the result of prohibited discrimination.

Grade Point Average (GPA)

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

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

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

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

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

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

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

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

Grade Point Average 40.5 divided by 15 = 2.70

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

Class Standing

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

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

Repeating Courses

Undergraduate students: Repeats are limited to a total of 6 for the academic career; any single course may be repeated twice. The most recent grade will be used in the GPA calculations. Graduate students are not permitted to repeat any course without the Dean of Graduate Studies approval. Graduate students are limited to a total of 2 repeated courses for the academic career. The most recent grade will be used in the GPA calculations.

Students may repeat any course for which a D+, D, F, U, W, WP, or WF grade is received. The grade points for the most recent grade will be used for computing grade point average, but the original grade will not be erased from the student's permanent record. It is recommended that no course be repeated more than once. The number of repeat attempts that may be presented for graduation credit or for use to improve the grade point average of any student will be limited to six; however, no more than four of these may be repeated during the regular academic year. It is recommended that courses be repeated during the summer sessions unless the sequence of courses is disrupted extensively. Students will have the option of requesting a different instructor for the repeat course whenever possible. Exception to the above policy, when it serves the best interests of both the students and the University, will be possible only with the approval of (1) the department in which the student is majoring, (2) the department offering the course, and (3) the dean administering the curriculum in which the student is majoring.

Exemption from Required Courses

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

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

Academic Probation and Suspension

A minimum grade point average (GPA) of 2.0 is required of students to be in academic good standing, and is required of students to graduate from certificate, associate degree and baccalaureate degree programs.

Any first semester degree seeking student (freshman or transfer) earning a GPA of less than a 1.00 at the end of their first semester will be suspended without probation.

Students failing to achieve a cumulative 2.0 GPA will be placed on Academic Warning. Students are permitted only one semester of Academic Warning.

Should the cumulative GPA of any student who has been placed on Academic Warning fall below 2.0 in any subsequent semester of enrollment, the student will be placed on Academic Probation.

Students on Academic Probation who, after one semester, continue to fail to meet the cumulative 2.0 GPA standard will be placed on Academic Suspension from the University for a minimum of one semester.

Students on Academic Warning or Academic Probation may attend summer sessions. Academically suspended students may enroll in summer sessions only with special permission of the dean for prescribed academic objectives. Summer sessions do not count as semesters for the purpose of warning, probation, or suspension status.

Academic Probation is a serious warning to students that it is incumbent upon them to improve their GPA to avoid academic suspension or failure to meet graduation requirements. All students on academic warning or probation shall participate in various academic support services offered by the University.

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

Students cannot make up failed work at another institution to improve their GPA at Edinboro University. Students who are reinstated following suspension for academic reasons must participate in the various academic support services offered by the University. If they do not meet the cumulative 2.0 GPA standard following reinstatement from suspension they may be suspended again. Normally students will not be reinstated after a second suspension.

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

When, in the judgment of the provost and vice president for academic affairs, extenuating circumstances prevail, exceptions to these standards may be made.

Reinstatement

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

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

Financial obligations to the University will preclude reinstatement.

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

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

Credit earned from other colleges or universities during the period of academic or disciplinary suspension will not be accepted for transfer to Edinboro University without the prior approval of the appropriate academic dean.

Plagiarism

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

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

Transfer Credit and the Edinboro Student

It is possible for students, in good standing at Edinboro University, to take courses at other institutions for transfer to their programs at Edinboro. **Before taking such courses**, a student must complete the Transfer Credit Authorization form. Course equivalencies are determined by the Office of Records and Registration and permission to take courses at other institutions is obtained from the advisor, chair and dean of the school in which the student is majoring.

Credit to meet the degree requirements for a particular program will not be given for: 1) courses which are not equivalent to those required or approved in the curricula offered in this university; 2) courses completed at other colleges or universities in which grades below C- were earned. Courses from accredited institutions which are designed as transferable may or may not be counted as part of the requirement for graduation. All credits of students who apply for admission with advanced standing must be approved by the dean of the school in which they will be majoring.

Transfer credit from other colleges and universities will not be granted for work pursued during the period the student must remain out of college because of academic or disciplinary action without the prior approval of the appropriate academic dean.

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

Visiting Student Program

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

Fresh Start

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

Conditions

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

point average of 2.00 by the end of the period of provisional status. Failure to achieve the 2.00 minimum GPA will result in permanent suspension from Edinboro University of Pennsylvania.

3. All grades for courses taken prior to the point at which Fresh Start is granted will remain on the academic transcript and academic history, but the cumulative grade point average will be represented as "0.00."
4. A student may be reinstated only once under the provisions of the Fresh Start program.
5. A student who applies for Fresh Start must sign an application form permitting full review of his/her records by the Provost/Vice President for Academic Affairs.

Provisions

1. Only courses in which grades of C or better were earned at Edinboro University of Pennsylvania will count as semester hours earned toward graduation.
2. Coursework applied to the new academic history will have no grade point average equivalence.
3. A student who is reinstated under the provisions of the Fresh Start program retains the right to utilize course repeat options as specified by University policy.

A Fresh Start Appeal Committee will review requests for exceptions to the stated policy. This committee will include the Provost/Vice President for Academic Affairs, the chairperson of the Senate Academic Concerns Committee, and the Registrar. Any exception to these procedures must be approved by the provost and vice president for academic affairs.

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.

In order 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 dean of the school housing the program to which the student wishes to change. International students must comply with USCIS regulations regarding change of major.

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

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

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

Class Attendance Policy and Procedure

Policy

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

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

Procedure

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

Student Academic Load

I. DURING THE ACADEMIC YEAR

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

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

II. DURING SUMMER 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 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.

Adding, Dropping and Withdrawal from Courses

Students may add a course to their schedule during the "Add" period, which is no later than the 7th day of the semester. During the summer, no class may be added after the first meeting of the class. Classes which start at irregular dates during the regular academic semesters may be added up to the day the class begins.

Students may drop courses from their schedule via S.C.O.T.S. no later than the 6th day of the semester. Courses dropped during this period will not be entered on a student's academic record.

After the 6th day of a semester, or equivalent period in a summer 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).

After the tenth week, or the equivalent period in a summer session, withdrawal from a course will be permitted only for extenuating circumstances. Approval for such withdrawal must be obtained from the advisor, department chair, and school dean. A grade of WP (withdrawal passing) or WF (withdrawal failing) will be recorded on the student's academic record.

Students who withdraw from a course will be eligible for a refund only if the withdrawal meets established criteria of the refund policy.

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

Withdrawal From All Courses

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, 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. If a student plans to withdraw during the last five weeks of the semester, the student must meet with the Assistant Vice President of Financial Aid, the Bursar, or the Registrar, located in Hamilton Hall, to discuss their request. During the last five weeks of the semester, or the equivalent period during a summer session, students will receive grades of WP (withdraw passing) or WF (withdraw failing). 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.

Independent Study Program

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

Application to enroll in an independent study project should be made on the appropriate form. It is available from the department chairperson and the Office of Records and Registration. The student is to consult with his/her advisor to determine the appropriateness of the student's request for independent study. The advisor will initiate the

approval process by signing the independent study application form. The completed application should then be circulated through the proper channels as indicated on the form. The approval of the School dean in which the study is undertaken is required on the form before the study is undertaken. After approval for a specified number of credit hours, the student will register no later than the last day of registration for approved Independent Study course.

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

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

Auditing Undergraduate Courses

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

Academic Passport

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

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

1. Students Transferring with an Associate Degree

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

System universities will recognize and honor the Academic Passport by admitting such students and shall, consistent with G.5 (Guiding Principles) apply credit towards graduation for all college parallel coursework completed for the associate degree. Up to a maximum of 45 general education credits and liberal arts course credits earned at the two-year college shall be used to meet lower division university general education requirements, even if the receiving university does not offer the specific course being transferred or has not designated that course as general education. A course by course match shall not be required.

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

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

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

2. Intra-System Transfer

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

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

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

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

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

3. Students Transferring Without the Academic Passport

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

Transfer Students and Advanced Standing

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

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

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

Credit to meet the degree requirements for a particular program will not be given for: 1) courses which are not equivalent to those required or approved in the curricula offered in this university; 2) courses completed at other colleges or universities in which grades below C- were earned.

Courses from accredited institutions which are designated as transferable may or may not be counted as part of the requirements for graduation. All credits of students who apply for admission with advanced standing must be approved by the dean of the school in which they will be majoring. Transfer credit from other colleges and universities will not be granted for work pursued during a period a student must remain out of the university because of academic or disciplinary action without the prior approval of the appropriate academic dean.

Two Year Transfer (2 + 2 Agreements)

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

Successful transfer arrangements depend on proper choice of courses at the community college. The University, therefore, maintains close contact with the transfer counselors of community colleges with which Edinboro has agreements. Students who wish to attend a community college and then transfer, either before or after completing an associate

degree, are urged to work closely with the transfer counselor, choose their bachelor's degree program as soon as possible, and be careful to follow an approved parallel program.

Credits for Armed Forces Education and Veterans' Education Benefits

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

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

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

Join ROTC and the Guard or Reserve While in College

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

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

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

Earning Course Credit by Examination or Evaluation

Edinboro University of Pennsylvania offers specific programs to assess student requests for undergraduate credits that reflect learning acquired in a non-traditional manner: 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. Therefore, students attempting to earn academic credit through any of the examination or evaluation processes outlined below

will be expected to do so before they have completed half of their degree or certification requirements. 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. An alternative method of earning credit is not an option if the student has already earned a letter grade in the course equivalent. Prior to administration of any of the above-noted examinations, students will be expected to pay a fee established by the University.

College-Level Examination Program (CLEP)

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

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

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

College Entrance Examination Board Advanced Placement

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

1. Edinboro University students may petition for undergraduate credit by competency examination for courses offered by the University.
2. 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.
3. To petition 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.)
4. 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.
5. The examination for any challenged course will be administered to the student only one time. Should the student fail, the petition will be filed in the academic record (not on the official transcript).
6. Prior to the administration of any challenge examination, students will be expected to pay a fee established by the University.

Life Experience Credit

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

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

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

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

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

When the process of evaluation, award of credit and fee payment is complete, the Office of Adult Student Services notifies the Office of Records and Registration of the credits to be posted to the student's transcript.

Academic Recognition and Honors

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 to remove D+, D or F grades) during an academic semester and who earn a grade point average of 3.40 or better for the semester are identified for that semester as Dean's List students, providing no grade of D+, D, F, I, R, or WF is earned. **NOTE:** If I or R grades are changed within the established time limit, students will be identified as Dean's List students provided they meet the other qualifications for Dean's List recognition. This recognition of academic achievement is recorded on the transcript. The University's Public Relations Office informs the hometown newspaper of Dean's List students of this academic recognition.

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

achievement is recorded on the transcript. The University's Public Relations Office informs the hometown newspaper of Dean's List students of this academic recognition.

University Celebration of Excellence

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

Honors at Graduation

The University grants honors recognition at its Commencement ceremonies, the annual University Celebration of Excellence, 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 Celebration of Excellence is based upon a student's academic record at the conclusion of the previous semester or summer session, since these events are held prior to issuance of final grades for the semester in which they are held. The determination of honors for posting on diplomas and transcripts will be based upon a student's complete academic record, including final grades issued for the semester in which the Commencement ceremony is held.

To be eligible for honors recognition at graduation:

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

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

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

Graduation Review and Commencement

Graduation Requirements

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

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

1. Complete a minimum of 120 semester hours with a C average (2.00 grade point average) or as specified by degree program requirements.
2. Demonstrate minimum competency as determined by major degree program faculty.
3. First Baccalaureate degree students will take at least 30 of their last 45 credits at Edinboro; and at least 50% of the major coursework through EUP.

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

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

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

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

Graduation Review

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

Policy for Students Entering into or Leaving Associate Degree Programs

1. Students interested in entering Edinboro for the first time, both freshmen and transfers, must submit an application for the degree program of their choice (one only) to the Admissions Office. These students must meet the admission requirements established by the University for the program they choose.
2. A student from another institution of higher learning admitted to an associate degree program offered by Edinboro must earn a minimum of 30 semester hours of credit within program requirements at Edinboro before the degree will be conferred.
3. A student who has been admitted to the University in a program of his/her choice and then wants to select another program, must process a change of curriculum form according to established policy.
4. A student expecting to graduate at a particular commencement must be admitted into the program for which he/she seeks a degree no later than nine weeks prior to that commencement.
5. A student who has had the associate degree conferred upon him/her by Edinboro, and who then wants to continue enrollment at Edinboro for the purpose of earning a baccalaureate degree, must apply with the Office of Records and Registration for a second degree.

6. A student who has earned a baccalaureate degree at Edinboro and who wishes to pursue an associate degree program at the University, must apply with the Office of Records and Registration, and, if admitted, must earn a minimum of 15 additional semester hour credits and meet the requirements of the program.
7. If a student who has been enrolled in a baccalaureate program and who has attained upper division status (junior or senior level), decides he/she wants to take an associate degree and leave the University, he/she must follow appropriate procedures, listed in Items 3 and 4.
8. Exceptions to any of the above regulations may be made only with the approval of the provost/vice president for academic affairs.

Earning a Second Baccalaureate Degree

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

Commencement

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

When extenuating circumstances warrant, the provost of the University may permit an individual who will be completing degree requirements during the summer sessions following the May commencement to participate in the commencement ceremony even though degree requirements have not been met. However, the individual will not receive a diploma until the degree requirements have been completed. Applications are available in the Office of Records and Registration and must be submitted by April 1.

Due to the limited availability of seating, only part 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)

General Information

Army ROTC is one of the premier leadership training programs in America. The Edinboro Military science is a challenging and flexible program that can be tailored to any individual student; especially those in their freshman and sophomore years. Freshmen and sophomore students incur NO MILITARY OBLIGATION for taking these courses. Military science is open to all students who want to learn about leadership, the military, and career opportunities for officers. The objective of the program is to develop adaptive leaders who are qualified to be officers in a global, high-tech organization responsible for the national security of the United States. Upon successful completion of the entire program, graduates will have an opportunity to serve their nation in the Active, Reserve or National Guard forces of

the United States Army. The Edinboro University Military Science Program has prepared hundreds of college students for successful careers and commissioned over 200 Army officers since 1973. Military science instruction is offered on campus through the Military Science Department located in Hendricks Hall, room G-29. Two- and four-year programs are offered, both of which lead to a commission as an officer in the United States Army. Most students take one course per semester of the basic course program (freshman and sophomore years), and one course per semester of the advanced courses (junior and senior years). Uniforms, equipment, and textbooks required for Army ROTC classes are supplied by the Military Science Department. A listing of these courses can be found under the Military Science Department in the Edinboro schedule of classes.

Incentives

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

Degree Credit at Edinboro University for Military Science Classes

Of the minimum 120 semester hours needed for graduation, up to 12 semester hours are allowable toward graduation for military science courses in the free elective area of a particular major (which includes credit for health and physical education). In Majors with no free electives, ROTC will provide another Semester of Scholarship Money if taking the required Military Science courses will cause a student to take more than 17.6 units per semester to complete his/her degree in four years.

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 Lewis, near Seattle, Washington, 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 in January. 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 scholarship winners will receive a monthly tax-free subsistence allowance. Freshmen receive \$300, sophomores \$350, juniors \$450 and seniors \$500 monthly while enrolled as full-time students.

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

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

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 Leadership and Personal Development (1)

Spring Semester:

MILS102 Introduction to Tactical Leadership (1)

Sophomore

Fall Semester:

MILS201 Innovative Team Leadership (2)

Spring Semester:

MILS202 Foundations of Tactical Leadership (2)

Junior

Fall Semester:

MILS301 Adaptive Tactical Leadership (3)

Spring Semester:

MILS302 Leadership in Changing Environments (3)

Senior:

Fall Semester:

MILS401 Developing Adaptive Leaders (3)

Spring Semester:

MILS402 Leadership in a Complex World (3)

Edinboro Success Program

The Edinboro Success Program (ESP) is a conditional admission program for students whose academic credentials fall short of the University's requirements for admission. The University's Admissions Office selects the students based on their academic promise, motivation, and positive attitude.

Students who are provisionally admitted to ESP will be restricted to undeclared major status and will have one semester to perform at an academically acceptable level. ESP students will take a majority of regular college courses, based on placement and a 3-credit college reading and study skills course, designed to build skills for effective study and learning strategies. ESP students will be strongly encouraged to take advantage of all support services provided by the University, including tutoring and mentoring. At the end of the trial semester, ESP students who performed successfully will gain full admission to the University and be eligible to declare their major, provided that they meet that program's entry requirements. ESP participant's who do not meet the minimum ESP standards will not be permitted to continue their enrollment at the University.

Peer Tutoring

An extensive tutoring program is available for all Edinboro University students during the fall and spring semesters. Qualified peer tutors are employed through the academic departments to help students gain clarification on concepts covered in their classes, and their text assignments, and to offer suggestions for developing and improving specific study skills. Faculty and administrators also volunteer time to tutor students.

Tutoring schedules indicating course, time, day(s) of the week, and location are posted throughout the campus and in academic departments. In addition, the tutoring schedule is available on Edinboro's homepage under the Office of the Provost.

Undeclared Advising

Each undeclared student is provided with an academic advisor. The academic advisor serves as the student's first point of contact on matters pertaining to registration, schedule changes, and other academic procedures. Academic Advisors also provide services that encourage students to explore their academic and career options to support the timely selection of an appropriate major. Because undeclared students are required to declare their major by the time they complete 45 semester hours, they are encouraged to utilize services provided by the Center for Career Development.

University Internship Program

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

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

Academic Resources, Services and Special Programs

Performing Arts Series

The mission of the Office of Performing Arts is to promote the live performance of visual and performing arts. Sponsored by the Edinboro University Student Government Association and Edinboro University of Pennsylvania, the Performing Arts Series provides as diverse a programming schedule allowed by available funds. Committed to the University's 21st "Century of Civility," Performing Arts provides programs that reflect this motto and elevate the arts at Edinboro. The Performing Arts Office is located in the Diebold Center for the Performing Arts, phone 814-732-2518.

Edinboro University in Erie – The Porreco Center

Located in nearby Millcreek Township, Edinboro University in Erie - The Porreco Center is just 19 miles north of the Edinboro University campus. The 27-acre property includes 11 buildings, an orchard, and a 160-car parking lot. Named for Erie businessman Louis J. Porreco, the property was donated to the University as part of the University's first capital campaign.

The facilities and support services being developed at the Center serve to centralize and expand outreach programming in the greater Erie area, while offering excellent educational opportunities for undergraduate students. Day and evening courses are offered each semester by departments of the University including four associate degree programs, as well as growing partnerships with Butler County Community College and Precision Manufacturing Institute.

The wide range of services at the Center allows students to register, meet with Admissions, pick up books, and attend classes - all without leaving the grounds. The computer lab hosts classes and open lab hours for Edinboro students and employees. The Center also has distance education capabilities for classes, meetings, and workshops. Questions about the Center can be addressed to the on-site administrator at 814-732-2544.

Edinboro University in Meadville – The Joseph T. Buba Center

Edinboro University in Meadville opened in December 2004 at 789 Bessemer Street in the beautifully renovated Bessemer Railroad Complex. The blending of the historical railroad facility with modern classrooms and state-of-the-art technology represents the shared vision of Edinboro University and Meadville community leaders. In December 2009, Edinboro University received the largest donation in the history of the university. As a result, the facility was officially renamed Edinboro University in Meadville – The Joseph T. Buba Center in honor of the benefactors, Joseph and Eleonora Buba.

The Buba Center extends the University's programs and services to neighboring communities, making educational opportunities available to a large number of students. Undergraduate courses are offered year round in conjunction with the University schedule. Many general studies courses, required of all majors, are offered in addition to specialty programs such as associate degree programs in manufacturing engineering technology, business administration, human services, and criminal justice.

One of the many services provided at the Buba Center is a daily bus service between Meadville and Edinboro at no charge to students, faculty, and staff.

The facility also boasts the latest in student-oriented technology. All classrooms have smart technology stations and wireless internet service. The 25-seat, walk-in friendly, computer lab and the distance learning/videoconferencing lab are connected to the main campus in Edinboro and the rest of the world. Additional information can be obtained by calling 814-337-7791 or at www.edinboro.edu, following the Buba Center link.

The Office of Continuing Education

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

These activities, conferences and experiences are designed to meet the personal, professional, and organizational interests and learning needs of individuals, organizations, and businesses in the region and beyond.

A wide range of continued learning activities are provided through seminars, workshops, courses, and training using University expertise and resources. In addition, the University partners with ed2go and Gatlin Education to provide online short training courses and career development programs. These online programs can be accessed anywhere.

The community is encouraged to contact the coordinator of camps and conferences at 814-732-1270 to rent University facilities or to inquire about any cooperative learning ventures.

Dr. Robert C. Weber Honors Program

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

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

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

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

Honors students enroll in independent study to work on the Senior Honors Project or on projects in topic areas not typically offered in the undergraduate curriculum. The senior project encourages honors students to develop expertise on a specific topic and to gain research

experience under the guidance of a faculty mentor. The senior project is presented in an appropriate public forum (journal publication, academic conference, online journal, art gallery, recital hall, etc.).

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

The Dr. Robert C. Weber Honors Program is a member of the National Collegiate Honors Council and the Northeast Regional Division of the NCHC.

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

Pre-Professional Programs

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

Information concerning pre-law study is provided at the end of the School of Liberal Arts section and is identified in the index. Information concerning the pre-healing arts is contained within the Biology Department section and is identified in the index.

University Libraries

Baron-Forness Library

Baron-Forness Library is a progressive, 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 and services to members of the University community as well as the residents of northwest Pennsylvania, ever mindful of the challenge of change in an information-driven environment.

University faculty and students are increasingly aware of the challenges presented by the pace of technological development and explosion of information. To meet these challenges, the Library provides access to electronic indexes, books, journals and reserve materials as well as multimedia materials, software, and equipment. Increasing numbers of these resources are available remotely to meet the growing number of commuting and distance education students.

The Library's catalog provides a web-based resource for identifying and locating books, periodicals, media, and other resident materials. Among other features, this sophisticated tool enables patrons to check their record for overdue or outstanding items, or renew materials online. Also, they can now search the electronic catalogs and request materials from many of the academic libraries in Pennsylvania.

Indexes and databases accessible via the Internet have largely replaced their counterparts in CD-ROM and printed formats. In this way, many of the important indexes in respective fields (e.g. education, psychol-

ogy) are now accessible to current students, faculty, and staff of the University from any networked PC on campus and, in many cases, from off campus as well. Printing, in black and white or color laser, is available.

As information becomes increasingly reliant upon delivery by electronic means, the Library's home page (<http://www.edinboro.edu/departments/library/>) is the primary vehicle for keeping up with the many exciting changes occurring in the Library. Many traditional printed services are now available in a web-based format including: interlibrary loan requests, reserves, and book suggestion forms.

To help in the use of all these resources, library faculty is available seven days a week to provide research assistance. Library faculty also teaches research techniques through classroom presentations, library tours and training sessions. A multimedia lab was recently created to accommodate the needs of those dealing with non-textual types of information. Workshops on a variety of topics assist users of productivity software.

The Library is organized to allow students and faculty easy access to library materials. The open stack plan allows researchers direct access to the book and journal collection. University archives and special collections rooms are staffed and open to the public. A wireless network in the building ensures ready access to electronic resources and networked services. A computer lab, seminar rooms, classrooms, and A-V previewing rooms are also available. Ample space is provided for individual study with both study tables and carrels. A coffee bar was recently added.

Technology and Communications, Ross Hall

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

Academic Resources

- Students can access 60 computer labs with a variety of hardware and software. A number of academic departments operate their own computer labs in conjunction with the University-wide Technology and Communications operations. One lab is available for use overnight. All computer labs are connected to the campus network and the Internet.
- Some of the many resources for students to improve their computer skills include help sheets, web-based information, and computer lab assistants.
- The campus features a \$6 million R. Benjamin Wiley Arts & Sciences Center, which includes cutting-edge teaching and learning facilities with four auditorium-style classrooms, three technology-enhanced classrooms and a distance education classroom. All of the classrooms include a "smart podium," a specially equipped desk that enables faculty members to operate computer and audio-visual equipment from one location. A number of classrooms across the campus are equipped similarly. The 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, telephone service, and technicians who are available to assist students with their technology needs. Our traditional residence hall rooms are wired for two high-speed data connections, digital satellite cable television service, and a telephone connection.

The telephone features provided include caller ID, call waiting and three-party calling. The new Highlands suite housing units are wired for high-speed data connections and digital satellite cable television service in each bedroom and the common living area. Additionally, wireless internet service is available throughout the buildings. 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 residence hall lobbies.

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

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

Student Resources

- Students are provided e-mail accounts and network storage space for their academic files. Their e-mail can be accessed via a web browser at any time and from anywhere in the world. Their network storage can be accessed from any computer connected to the campus network.
- Students can create web pages in their account areas and access these pages via <http://users.edinboro.edu/username>.
- Students have access to S.C.O.T.S., our Student-Centered On-Line Transaction System. With it, students can register, add and drop classes, view their academic history, grades, and conduct other University business.
- Students can access their financial aid and bill via S.C.O.T.S. and pay their bill with a credit card.
- Information such as course schedules, course descriptions, and student handbook are available on the University's web site.

Student Computer Recommendations

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

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

Other Services

The Reading Clinic, offered by the Department of Elementary Education, is located in the Miller Research Learning Center. The Clinic's primary purpose is to train reading specialists at the graduate level and to introduce clinical concepts to undergraduates. Operating in a clinical setting under the direct supervision and guidance of the Reading Clinic director, the University students in the reading program work with children who have a variety of reading difficulties.

The Miller Educational Technology Center, operated by the Elementary Education Department, is located in room 136 of the Miller Research Learning Center. Its primary purpose is to instruct graduate and undergraduate University students in the use of computers and educational technology in school classrooms. In addition, the laboratory is available to education students and faculty to meet personal computer needs including Live Text work.

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

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

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

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

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

F

*Academic
Affairs
Curricula
and
Organization*

CURRICULA AND ORGANIZATION

Introduction

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

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

General Education Curriculum

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. It is that part of the undergraduate experience that crosses all boundaries; it is that which unifies otherwise distinct constituencies within the 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.
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 communication skills.
7. To develop analytical thinking skills.
8. To develop a sense of self and of community.
9. To develop an awareness of healthy lifestyles.
10. To develop mathematical, computer, and quantitative skills.

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

General Education Requirements for Baccalaureate Degrees

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

- | | |
|--|-------------|
| 1. ENGL101 College Writing Skills | 3 sem. hrs. |
| 2. ENGL102 Specialized College Writing and Research Skills | 3 sem. hrs. |
| 3. MATH104 Finite Mathematics or
MATH110 Mathematical Reasoning I | 3 sem. hrs. |

- | | |
|---|-------------|
| 4. Computer Competency
CSCI104 Essential Computing I
-or- Higher level CSCI course
-or- Discipline-specific computer competency course | 3 sem. hrs. |
|---|-------------|

- 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 12 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. The two courses selected in an area (arts and humanities, social and behavioral sciences, and natural science and mathematics) must have the same prefix. This requirement will ensure depth in one area outside the major area of study. Core and Distribution courses in the natural sciences are no longer interchangeable.

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

- D. Health and Physical Education 3 sem. hrs.
Because of the substantial overlap of health content in the three-credit health and activity (wellness) courses, only one of these courses may be used to satisfy graduation requirements in General Education or elsewhere in the curriculum.

- | | |
|-------------|-------------|
| 1. Health | 2 sem. hrs. |
| 2. Activity | 1 sem. hr. |

TOTAL 48 sem. hrs.

General Education Requirements for Associate Degrees

Associate of Arts Degree

- | | |
|--|--------------|
| 1. ENGL101 College Writing Skills | 3 sem. hrs. |
| ENGL102 Writing and Research Skills | 3 sem. hrs. |
| 2. MATH104 Finite Mathematics or higher | 3 sem. hrs. |
| 3. CSCI104 Essential Computing I | 3 sem. hrs. |
| 4. One approved course from six of the seven 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 Science Degree

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

TOTAL 24 sem. hrs.

Associate in Engineering Technology Degree

1. ENGL101 College Writing Skills 3 sem. hrs.
2. One approved course from six of the seven Core
categories 18 sem. hrs.
(Artistic Expression, World Civilizations, American Civilizations,
Human Behavior, Cultural Diversity and Social Pluralism, Ethics,
Natural Science)

TOTAL 21 sem. hrs.

Courses Approved for General Education (July 1, 2010)

Computer Competency

ART259	Introduction to Computer Graphics: CAD
ART358	Introduction to Computer Graphic Software
ART249	Computer Animation I
ART267	Film and Video Production I
ART268	Beginning Animation
BIOL314	Computers and Life Science
CHEM241	Principles of Chemistry II
CSCI104	Essential Computing
CSCIxxx	Any higher level CSCI course
ENGL410	Advanced Technical Writing
GEOG413	Geographic Information Systems
GEOS510	Introduction to Geophysics
HPE384	Technology Integration in Health and Physical Education
JOUR326	Electronic Layout
JOUR327	Editing for Publications
JOUR417	Advanced Electronic Layout
MUSC219	Marching Band Techniques
MUSC416	Instrumental Arranging
MUSC420	Electronic Music Composition
PSYC227	Experimental Psychology
SEDU183	Tech. for Teaching and Learning
SHLD365	Computer Technology Applications: Speech-Language Pathology/Audiology

Core

1. Artistic Expression
 - ARHI105 Overview of Western Art History
 - ARHI207 Overview of Non-Western Art History
 - ENGL115 Introduction to Literature
 - ENGL117 Introduction to Fiction
 - ENGL118 Introduction to Poetry
 - ENGL119 Introduction to Creative Non-Fiction
 - MUSC103 Introduction to Music
 - THEA202 Play Analysis
 - THEA218 Introduction to Theatre
2. World Civilizations
 - GEOG101 World Geography
 - GEOG130 Cultural Geography
 - HIST101 World Civilizations I
 - HIST102 World Civilizations II
 - HIST103 Twentieth Century World
 - ORST107 Intro. to International Commerce
 - POL1200 Introduction to Government

- | | |
|--|--|
| POL1240 | Introduction to Comparative Government |
| 3. American Civilizations | |
| ECON100 | Elements of Economics |
| ENGL116 | American Prose Classics |
| GEOG245 | Conservation of Natural Resources |
| GEOG260 | Geography of United States and Canada |
| HIST261 | History of U.S. I |
| HIST262 | History of U.S. II |
| LAS 204 | US Interventions/Latin America |
| POL1201 | American Government |
| 4. Human Behavior | |
| ANTH180 | Introduction to Anthropology |
| COMM100 | Mass Communication in Modern Society |
| COMM125 | Psychology of Communication |
| JOUR214 | Journalism and Society |
| ORST110 | Principles of Consumerism |
| PSYC101 | General Psychology |
| SHLD125 | Psychology of Communication |
| 5. Cultural Diversity and Social Pluralism | |
| ANTH205 | Introduction to Multicultural America |
| COMM220 | Intercultural Communication |
| ENGL205 | Multi-Ethnic American Literature |
| FREN100 | Introduction to France and the French |
| FREN101 | First Course in French |
| GEOG230 | Societal Issues |
| GERM100 | Introduction to Germany and the Germans |
| GERM101 | First Course in German |
| HIST205 | Introduction to Multicultural America |
| HIST271 | African American History I |
| HIST272 | African American History II |
| MUSC247 | Music, Gender, and Identity |
| HONS200 | Religion, Popular Culture and Sociology |
| PHIL204 | Introduction to Women's Studies |
| RUSS100 | Introduction to Russian Language and Culture |
| RUSS101 | First Course in Russian |
| SEDU271 | Multi Culture in American Schools |
| SOC100 | Principles of Sociology |
| SPAN100 | Introduction to Spanish Culture |
| SPAN101 | First Course in Spanish |
| SPED267 | American Sign Language and the Deaf Culture |
| 6. Ethics | |
| GEOG145 | Environmental Issues |
| JOUR200 | Journalism Ethics |
| PHIL200 | Introduction to Philosophy and Values |
| PHIL240 | Introduction to Contemporary Moral Issues |
| 7. Natural Science | |
| BIOL100 | Introduction to Biology |
| BIOL103 | Principles of Biology |
| CHEM120 | Elementary Chemistry |
| CHEM140 | General Chemistry |
| CHEM240 | Principles of Chemistry |
| GEOS101 | Dynamic Earth |
| GEOS104 | Intro to Earth Environment |
| 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
 - ARHI330 The Art and Architecture of Latin America
 - ARHI335 History of Advertising
 - ARHI536 The Art and Architecture of England
 - ARHI556 Early 20th Century Art
 - COMM107 Public Speaking
 - COMM313 Oral Interpretation
 - COMM318 Interviewing
 - COMM321 Non-Verbal Communication
 - COMM415 Language and Thought
 - COMM416 Persuasion and Propaganda
 - COMM430 Organizational Communication
 - ENGL201 American Literature Survey I
 - ENGL202 American Literature Survey II
 - ENGL241 English Literature: Chaucer-Milton
 - ENGL242 English Literature: Swift-Modern

50/Curricula and Organization

ENGL260	Literature of the Classical World	ANTH371	Introduction to Archaeology
ENGL301	Creative Writing	ANTH372	Cultures of the World
ENGL309	African American Literature I	ANTH374	Indians of North America
ENGL310	African American Literature II	ANTH378	Native America Before Columbus
ENGL311	Literature by Women	ANTH379	Early Man in the Old World
ENGL315	Shakespeare I	ANTH385	Introduction to Physical Anthropology
ENGL316	Short Story	ANTH390	Human Evolution
ENGL319	Shakespeare II	ANTH420	Archeology of British Isles
ENGL325	Literature of the Bible I	ECON220	Principles of Microeconomics
ENGL326	Literature of the Bible II	ECON225	Principles of Macroeconomics
ENGL330	Literature and Film	ECON301	Personal Economics
ENGL355	Popular Literature	ECON370	Contemporary Economic Problems
ENGL365	Gender and Identity in Literature	GEOG300	Principles of Urban and Regional Planning
ENGL370	Business Writing	GEOG305	Basic Cartography
ENGL385	Advance Composition	GEOG320	Physical Geography
ENGL388	Mythology	GEOG332	Political Geography
ENGL389	World Mythologies	GEOG335	Urban Geography
ENGL404	Technical Writing	GEOG340	Economic Geography
FREN102	Second Course in French	GEOG350	Population Geography
FREN201	Third Course in French	GEOG365	Geography of Latin America
FREN202	Fourth Course in French	GEOG370	Geography of Europe
FREN353	The French Novel in English	GEOG271	Geography of the Commonwealth of Independent States
GERM102	Second Course in German	GEOG375	Geography of the Middle East
GERM201	Third Course in German	GEOG380	Geography of Africa
GERM202	Fourth Course in German	GEOG390	Geography of Asia
JOUR216	Beginning Reporting	GEOG391	Field Geography
JOUR364	Introduction to Mass Media	HIST302	History of East Asia
JOUR365	Introduction to Public Relations	HIST305	China, Past and Present
LAS489	The Maya Experience	HIST306	United States and Asia
LAS491	Gender, Language/Cultural Images of Mexico	HIST312	Middle East II
MUSC201	Fundamentals of Music	HIST314	History of Women in Europe
MUSC211	World Music	HIST315	History of Women in the U.S.
MUSC240	Music of Broadway	HIST316	Women in Non-Western Nations
MUSC241	Music and Media	HIST318	Colonial Africa
MUSC343	Evolution of Jazz	HIST319	Modern Africa
MUSC344	American Music	HIST323	History of Latin America I
PHIL205	Critical Thinking	HIST324	History of Latin America II
PHIL300	Ancient Philosophy	HIST330	World War II
PHIL306, PHIL307, PHIL308	Philosophy in Popular Culture	HIST333	Terrorism
PHIL310	Eastern Philosophy	HIST334	History of Christianity
PHIL311	World Religions	HIST335	History of Sports
PHIL312	Black/White: Appearance and Reality	HIST336	History of Religion in America
PHIL313	African Philosophy	HIST339	History of Modern Germany
PHIL318	Marxism	HIST341	History of Nazi Germany
PHIL327	Beginning Logic	HIST347	Introduction to Modern Europe II
PHIL340	Ethics	HIST357	History of England I
PHIL342	Images of Humanity	HIST358	History of England II
PHIL344	Social Philosophy	HIST361	American Colonial History
PHIL346	Environmental Ethics	HIST364	Immigrant Groups in American Society
PHIL364	Sexual Love and Western Morality	HIST366	U.S. Since 1945
PHIL402	History of Modern Philosophy	HIST370	American Dream on Film
PHIL405	Contemporary Philosophy	HIST373	Turbulent Sixties
PHIL410	Metaphysics	HIST375	U.S. Military History
PHIL411	Theory of Knowledge	HIST377	American Urban Development
PHIL420	Logic	HIST378	American West
PHIL425	Philosophy of Science	HIST379	U.S. Police History
RUSS102	Second Course in Russian	HIST380	Pennsylvania History
RUSS201	Third Course in Russian	LAS489	The Maya Experience
RUSS202	Fourth Course in Russian	LAS491	Gender, Language, and Cultural Images of Mexico
RUSS353	Russian Literature in English	POLI315	American State and Local Government
SPAN102	Second Course in Spanish	POLI322	Public Opinion, Interest Groups, and Propaganda
SPAN201	Third Course in Spanish	POLI335	American Presidency
SPAN202	Fourth Course in Spanish	POLI341	Government and Politics of Latin America
SPAN307	Spanish Conversation and Composition I	POLI343	Law and Legal Systems
SPAN308	Spanish Conversation and Composition II	POLI345	Political Systems of Asia and the Far East
SPAN353	Modern Latin American Literature in Translation	POLI348	Introduction to International Politics
THEA203	Fundamentals of Acting	POLI370	Political Thought I
THEA309	Children's Theatre	POLI463	Civil Liberties
THEA310	Creative Dramatics I	POLI465	Constitutional Law
THEA318	History of Theatre to 1642	POLI510	Health Care Politics and Policy
THEA319	History of Theatre from 1660 to Present	POLI544	Government and Politics of New Nation States and Developing Areas
2. Social and Behavioral Sciences		POLI548	U.S.-Latin America Relations: Contemporary Problems
ANTH305	Anthropology of Food/Eating	POLI549	American Foreign Policy
ANTH310	Introduction to Forensic Anthropology	POLI550	International Law and Organizations
ANTH315	Ritual, Magic, and Myth	POLI574	America Political Thought
ANTH364	Culture, Illness, and Curing		
ANTH365	Living with the Dead		

PSYC300	Learning Theory and Application
PSYC301	Psychology of Adjustment
PSYC305	Psychology of Human Sexuality
PSYC310	Psychology of Consciousness
PSYC317	Developmental Psychology
PSYC319	Psychology of Adulthood and Aging
PSYC325	Psychology of Creativity and the Arts
PSYC350	Drugs and Human Behavior
PSYC370	Psychology of Personality
PSYC390	Social Psychology
SHLD300	Communication Across Lifespan
SHLD340	Advanced Language Development and Analysis
SOC207	Contemporary Social Problems
SOC326	Society and the Individual
SOC340	Sociology of Marriage and Family
SOC347	Work and Society
SOC364	Race and Ethnic Relations
SOC390	Sociology of the Life Cycle
SOC530	Sociology of Deviant Behavior
3.	Natural Science and Mathematics
BIOL101	Human Biology
BIOL102	Environmental Biology
BIOL230	Botany
BIOL240	Zoology
BIOL304	Biology of Aging
BIOL306	Introduction to Human Genetics
BIOL307	History of Biology
BIOL300	Genetics
BIOL314	Computers and Life Science
CHEM141	Bio-Organic Chemistry
CHEM241	Principles of Chemistry II
CHEM301	General Organic Chemistry
CHEM302	General Bio-Chemistry
CHEM310	Quantitative Analysis
CHEM330	Organic Chemistry I
CHEM331	Organic Chemistry II
CSCI130	Principles of Programming I
CSCI204	Essential Computing II
CSCI207	Programming in Visual Basic
CSCI230	Principles of Programming II
CSCI280	Principles of System Operation and Administration
CSCI304	Design and Implementation
GEOS301	Geology of our Nation's Parks
GEOS302	Our Hazardous Planet
GEOS310	Introduction to Oceanography
GEOS375	Environmental Geology
MATH105	College Algebra
MATH106	Trigonometry
MATH107	Precalculus
MATH208	Essentials of Calculus
MATH209	Mathematics of Finance
MATH210	Math Reasoning II
MATH211	Analytic Geometry and Calculus I
MATH212	Analytic Geometry and Calculus II

MATH250	Informal Geometry
MATH260	Elements of Statistics
MATH270	Discrete Math I
MATH275	Linear Algebra I
MATH300	Applied Statistical Methods
MATH350	Mathematical Probability and Statistics
MATH370	Discrete Math II
PHYS202	Physics II
PHYS301	The Nature of Sound
PHYS302	The Nature of Light and Color
PHYS303	The Nature of Nuclear Energy
PHYS313	Digital Electronics
PHYS315	Introduction to Microprocessors
PHYS320	University Physics I
PHYS321	University Physics II
PHYS325	Introduction to Modern Physics
PHYS371	The Solar System
PHYS471	Relativity, Black Holes and Cosmology
PHYS472	The Sun

Health and Physical Education

1.	Health	
	HPE105	Health
	HPE106	Health and Human Sexuality
	HPE107	Contemporary Readings in Health
	HPE108	Consumer Health
	HPE110	Health and Physical Conditioning
2.	Activity	
	HPE052	Aquatics I
	HPE053	Aquatics II
	HPE054	Aquatics III
	HPE056	Badminton I
	HPE057	Bowling I
	HPE060	Golf
	HPE063	Physical Fitness
	HPE066	Tennis
	HPE069	Weight Training
	HPE074	Fencing
	HPE077	Aerobic Exercise
	HPE078	Racquetball and Handball
3.	Health and Activity	
	HPE111	Wellness — Bicycling
	HPE112	Women's Wellness — Weights-Aerobics
	HPE113	Wellness — Walking
	HPE114	Wellness — Tennis
	HPE115	Wellness — Social Dancing
	HPE116	Lifeguarding
	HPE118	Wellness — Golf
	HPE121	Wellness — Cross Country Skiing
	HPE124	Wellness — Step Aerobics
	HPE125	Wellness — Aquatic Fitness
	HPE126	Wellness — Weight Training

College of Arts and Sciences

Art Department

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

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 (BFA), the Bachelor of Science in Art Education (BSAE) or the Bachelor of Arts in Art History (BA). Students planning to earn Art Education certification and meet BFA degree requirements must complete Teacher Candidacy procedures and file a Teacher Certification form with the registrar. Students in the BFA program may concentrate in graphic design (commercial art), cinema (film/video and animation), photography, ceramics, drawing, jewelry/metalsmithing, painting, printmaking, sculpture, weaving/fibers and wood furniture. BFA students may elect to have an internship in their career area.

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

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

A minimum of 40% (48 semester hours) of the entire program must be upper level courses (300 and above).

It is recommended that new students purchase a laptop computer loaded with Adobe Creative Site 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	48 sem. hrs.
II. Required Art History Courses	15 sem. hrs.
ARHI105 Overview of Western Art History (3)	
ARHI207 Overview of Non-Western (3)	
ARHI220 Introduction to Film & Video (3)	
ARHI323 Art of the 20th Century (3)	
ARHI440 Seminar in Art History (3)	
III. Required Art History Period Courses	12 sem. hrs.
ARHI120-ARHI425 with at least one course from all four groups. See Undergraduate catalogue for a list of courses in each group.	
IV. Required Art History Electives	12 sem. hrs.
Any course with ARHI designation.	
V. Required World History	6 sem. hrs.
HIST101 World Civilization I (3)	
HIST102 World Civilization II (3)	
VI. Required Foreign Language	12sem. hrs.
-101, -102, -201, <u>or</u> -202 language courses and both must have the same prefix.	
VII. Required Studio	3 sem. hrs.
ART	
Any ART prefix, ART101, ART102, ART106, ART211, ART216, <u>or</u> ART251 are recommended.	
VIII. Free Electives	12 sem. hrs.
TOTAL	120 sem. hrs.

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

First Semester	
ENGL101	College Writing Skills (3)
ARHI105	Overview of Art History (3)
HIST101	World Civilizations I (3)
Core (6)	
TOTAL	15 sem. hrs.
Second Semester	
ENGL102	Specialized College Writing and Research Skills (3)
MATH104	Finite Math (3) <u>or</u>
MATH110	Mathematical Reasoning I (3)
ARHI207	Overview of Non-Western (3)
ARHI323	Art of the 20th Century (3)
HIST102	World Civilizations II (3)
TOTAL	15 sem. hrs.
Third Semester	
ARHI220	Introduction to Film & Video (3)
ARHI	Required Period Course (3)
CSCI104	Essential Computing (3)
ART	Required Art Studio Course (3)
Core (3)	
TOTAL	15 sem. hrs.
Fourth Semester	
ARHI	Required Period Course (3)
ARHI	Required Art History Elective (3)
Core (9)	
TOTAL	15 sem. hrs.
Fifth Semester	
ARHI	Required Period Course (3)
ARHI440	Art History Seminar (3)
	Required Foreign Language Course (3)
	Distribution (3)
	HPE Elective (3)
TOTAL	15 sem. hrs.
Sixth Semester	
ARHI	Required Period Course (3)
ARHI	Required Art History Elective (3)
	Required Language Course (same prefix as 1st foreign language course) (3)
	Distribution (6)
TOTAL	15 sem. hrs.
Seventh Semester	
ARHI	Required Art History Electives (6)
	Required Language Course (3)
	Distribution (3)
	Free Elective (3)
TOTAL	15 sem. hrs.
Eighth Semester	
	Internship suggested (9-15)
	Required Language Course (3)
	Free Elective (0-9)
TOTAL	15 sem. hrs.
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. Beginning with the fall semester of 2006, new students must submit a portfolio of artwork after completing the introductory course within their intended concentration and be accepted by the area of concentration to be allowed to take upper level courses within a concen-	

tration. Students must follow the guidelines set forth in the current Art Department student handbook including the requirements and deadlines for submission of portfolios to each area of concentration.

The BFA is available in the following concentrations:

Concentration I: Studio Arts

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

I. General Education Requirements	48 sem. hrs.
II. Foundation Courses	15 sem. hrs.
ART101 Design: Two-Dimensional Design(3)	
ART102 Design: Three-Dimensional Design(3)	
ART103 Design: Four- Dimensional Design (3)	
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 I (3)	
IV. Concentration Courses	15 sem. hrs.
#II. (3)	
Inter. (3)	
Inter. (3)	
Adv. (3)	
Adv. (3)	

Cannot be ART107 Drawing II. Drawing majors must use a drawing elective here.

V. Applied Media Arts Elective (select one of the following):	3 sem. hrs.
ART251 Photography I (3)	
ART256 Introduction to Graphic Design (3)	
##ART267 Film and Video Production (3)	
##ART268 Beginning Animation (3)	

Satisfies Computer Competency - General Education Skills

VI. Required Art History/Theory	12 sem. hrs.
* ARHI105 Overview of Western Art History	
** ARHI	
** ARHI	
** ARHI	

(3) Recommend these credits be taken in courses approved for General Education Core 1.

** (3) Courses must be 300 level or above. It is recommended that two of these be selected from courses approved for General Education Distribution 1. (in which case credits would be recorded in the General Education section).

VII. Art Elect. (Intern., ARED, ARHI, ART)	18 sem. hrs.
VIII. Free Electives	0-9 sem. hrs.
TOTAL	120 sem. hrs.

Concentration II: Applied/Media Arts

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

I. General Education Requirements	48 sem. hrs.
ARHI105 Overview of Western Art History in Core 1 Art history in Distribution 1 (3-6)	
II. Required Art Courses	21 sem. hrs.
ART101 Design: Two-Dimensional (3)	
ART102 Design: Three-Dimensional (3)	
ART103 Design: Four-Dimensional (3)	
ART105 Color Theory (1.5)	
ART106 Drawing I (3)	
ART107 Drawing II (3)	
ART251 Photography I (3)	
ART256 Introduction Graphic Design (3)	
ART267* Film and Video Production I <u>or</u>	
ART268* Beginning Animation (3)	
* Recommend that one of these courses be taken in courses approved for General Education from Skills/Computer Literacy.	
III. Applied Media Arts Concentrations	21 sem. hrs.

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

Cinema:

ART267	Film & Video Production I (3) <u>or</u>
ART268	Beginning Animation (3)
ART347	Computer Animation I (3)

Traditional Animation Track:

ART353	Intermediate Animation (3)
ART353	Intermediate Animation (3)
ART466	Advanced Animation (3)
ART466	Advanced Animation (3)

Computer Animation Track:

ART348	Computer Animation 2 (3)
ART353	Intermediate Animation (3)
ART461	Advanced Computer Animation 1 (3)
ART462	Advanced Computer Animation 2 (3)

Film & Video Track:

ART367	Intermediate Film & Video Production (3)
ART367	Intermediate Film & Video Production (3)
ART467	Advanced Film & Video Production
ART467	Advanced Film & Video Production (3)

Cinema Elective:

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

B. Graphic Design

ART330	Graphic Design Studio (3)
ART340	Introduction to New Media (3)
ART358	Introduction to Computer Graphic Software (3)
ART359	Principles of Typography (3)
ART360	Movements and Influences (3)
ART464	Publication Design (3)
ART469	Corporate Identity (3)

C. Photography

ART252	Photography II (3)
ART351	Intermediate Photography I (3)
ART352	Intermediate Photography II (3)
ART355	Introduction to Digital Photography (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 courses approved for General Education from Distribution 1.

VI. Art Elect. (Intern., ARED, ARHI, ART)	15 sem. hrs.
Nine (9) semester hours in Art Electives must be 300 level or above.	
VII. Free Electives	0-6 sem. hrs.

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: A minimum of 40 percent (48 semester hours) of the entire program must be upper level courses (300 and above).

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

First Semester

ENGL101	College Writing Skills (3)
ARHI105	Overview of Art History (3)
PSYC101	General Psychology (3)
ART106	Drawing I (3)
ART101	Design, 2-D (3) <u>or</u>
ART102	Design, 3-D (3)

TOTAL 15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
MATH104	Finite Math (3) or		
MATH110	Mathematical Reasoning I (3)		
ART107	Drawing II (3)		
ART101	Design, 2-D (3) or		
ART102	Design, 3-D (3)		
ART103	Design, 4-D (1.5)		
	TOTAL	15 sem. hrs.	

Third Semester

CSCI104	Essential Computing I (3) or Discipline specific computer competency course (ART267, ART268, ART358)		
	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 (6)		
	ARHI approved for Distribution 1 (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Fifth Semester

	Intermediate I in Concentration (3)		
	HPE Elective (3)		
	Applied Media Arts Elective ART251, ART256, ART267, or ART268 (3)		
	ARHI Approved for Distribution 1 (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

	Intermediate II in Concentration (3)		
	Art Elective (3)		
	Art Elective (3)		
	Core (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 art elective.

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

ENGL101	College Writing Skills (3)		
ARHI105	Overview of Art History (3)		
ART106	Drawing I (3)		
ART101	Design, 2-D (3)		
ART103	Design, 4-D (1.5)		
ART105	Color Theory (1.5)		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
MATH104	Finite Math (3) or		
MATH110	Mathematical Reasoning I (3)		
ART107	Drawing II (3)		
ART102	Design, 3-D (3)		
	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, ART226, ART236, or ART241 (3)		
	Core (6)		
	TOTAL	15 sem. hrs.	

Fifth Semester

	Intermediate II in Concentration (3)		
	HPE Elective (3)		
	ARHI approved for Distribution 1 (3)		
	Art Elective (3)		
	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 (6)		
	ARHI (3)		
	Distribution (6)		
	TOTAL	15 sem. hrs.	

Eighth Semester

	Internship (9-15)		
	Free Electives (0-6)		
	TOTAL	15 sem. hrs.	

Bachelor of Science in Art Education

Area of Certification – K-12

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

I. General Education Requirements	48 sem. hrs.
II. Professional Education Requirements	33 sem. hrs.
ARED305 Field Experience 1 (3)	
ARED314 Intro to Art Ed. (3)	
ARED315 Curriculum Dev. In Art Educ. (3)	
ARED383 Technology Portfolio in Art Ed (3)	
ARED425 Art Ed. for Special Populations (3)	
ARED475 Field Experience 2 (3)	
ARED495 Student Teaching (3)	
PSYC101 General Psychology (3)	
SEDU271 Ed. in American Society** (3)	
SPED210 Introduction to Exceptionality (3)	
SPED370 Adaptations and Rec.s (3)	
Literature Requirement***	
**Credits are recorded in the General Education section	
***English Literature course 300 + for Distribution 1 requirement	
III. Concentration	36 sem. hrs.
A. Foundations	15 sem. hrs.
ART101 Design 2-D (3)	
ART102 Design 3-D (3)	
ART103 Design 4-D (1.5)	
ART105 Color Theory (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)	
ART256 Intro to Graphic Design(3)	
ART267 Film and Video Production I (3)	
ART268 Beginning Animation (3)	
IV. Art History Requirements	12 sem. hrs.
ARHI105 Over. West.	
ARHI207 Over. Non West	
ARHI	
ARHI	
V. Advanced Studio Skills	3 sem. hrs.
VI. Free Electives	0-3 sem. hrs.
TOTAL	120 sem. hrs.

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

First Semester

ARHI105	Overview of Art History (3)	
ART101	Design, 2-D (3)	
ART106	Drawing I (3)	
ENGL101	College Writing Skills (3)	
MATH110	Mathematical Reasoning I (3)	
TOTAL		15 sem. hrs.

Second Semester

ART102	Design, 3-D (3)	
ART103	Design 4-D (1.5)	
ART105	Color (1.5)	
ART107	Drawing II (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH210	Mathematical Reasoning II (3)	
TOTAL		15 sem. hrs.

Third Semester

PSYC101	General Psychology (3)	
ARHI207	Overview of Non-Western Art History (3)	
Required Studio Breadth Course (6)		
Core 3		
TOTAL		15 sem. hrs.

Fourth Semester

Required Studio Breadth Course (6)		
PSYC317	Development Psychology (3)	
ARHI323	Art of the 20 th Century (3)	
	Literature 300+ (3)	
TOTAL		15 sem. hrs.

Fifth Semester

ARED305	Field Experience 1 (3)	
ARED314	Introduction to Art Education (3)	
SEDU271	Educ. in a Multicultural Society (3)	
Required Studio Breadth Course (3)		
ARHI300 + (3)		
Core (3)		
TOTAL		18 sem. hrs.

Sixth Semester

ARED383	Technology Portfolio in Art Educ. (3)	
ARED315	Curriculum Dev. in Art Education (3)	
SPED210	Introduction to Exceptionality (3)	
Required Studio Depth Course (3)		
Core (3)		
Distribution (PSYC300+)(3)		
TOTAL		18 sem. hrs.

Seventh Semester

ARED475	Field Experience II (3)	
ARED425	Art Educ. for Special Populations (3)	
Required Studio Depth Course ART300+ (3)		
Core (3)		
SPED370	Adaptations/Accommodations (3)	
HPE Elective (3)		
TOTAL		18 sem. hrs.

Eighth Semester

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

Biology and Health Services Department

FACULTY: John Ashley, Matthew Foradori, Martin G. Fox, David E. Fulford, Dale M. Hunter, Mark S. Kosco, Peter V. Lindeman, William J. Mackay, Kiran P. Misra, Martin J. Mitchell, Cynthia E. Rebar, Ulf M. Sorhannus, Nina Thumser, Craig W. Steele, Craig T. Van Bell

The Biology and Health Services Department offers the following undergraduate programs: Bachelor of Arts in Biology degree; Bachelor of Science degrees in Biology, Environmental Science-Biology, Medical Technology, Nuclear Medical Technology, and a Bachelor of Science in Education degree in Biology (Please refer to the Educational Services Department section for information regarding this program). The department also offers a minor in Biology.

The Biology and Health Services Department also offers General Education courses for non-biology majors, including BIOL100 Introduction to Biology, BIOL101 Human Biology, BIOL102 Environmental Biology, BIOL304 Biology of Aging, BIOL306 Introduction to Human Genetics, and BIOL307 History of Biology.

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

Bachelor of Arts Degree

Biology

This curriculum is intended to provide the student with a firm, broad basis of comprehension in the biological sciences and related scientific disciplines.

I.	General Education Requirements MATH260, not MATH104, fulfills the math skills requirement for this degree program.	48 sem. hrs.
II.	Required Biology Courses BIOL103 Principles of Biology (4) BIOL230 Botany (4) BIOL240 Zoology (4) BIOL300 Genetics (4) BIOL305 Cell/Molecular Biology (4) BIOL320 Plant Physiology (4) or BIOL340 Animal Physiology (4) BIOL400 Ecology (4)	28 sem. hrs.
III.	Biology Electives (To be selected from the following: BIOL302, BIOL307, BIOL308, BIOL309, BIOL314, BIOL318, BIOL320, BIOL340, BIOL341, BIOL342, BIOL 343, BIOL395, BIOL403, BIOL409, BIOL437, BIOL442, BIOL447, BIOL457, BIOL490, BIOL520, BIOL521, BIOL522, BIOL523, , BIOL540, BIOL541, , BIOL543, , BIOL555, , BIOL562, BIOL572, BIOL597, BIOL598, BIOL599, BIOL601, BIOL602, , BIOL604, BIOL610, BIOL640, BIOL641, BIOL643, BIOL646, BIOL661, BIOL664, BIOL681, BIOL682, BIOL699, TREC595, TREC596, TREC597, TREC598, TREC599, PYMA___.)	8 sem. hrs.
IV.	Required Supporting Courses* MATH107 PreCalculus Mathematics (4) CHEM140 General Chemistry (4) CHEM301 General Organic Chemistry (4) CHEM302 General Biochemistry (4) PHYS201 Physics I (4) PHYS202 Physics II (4)	24 sem. hrs.
V.	Free Electives	12 sem. hrs.
	TOTAL	120 sem. hrs.

* Selected courses in this area may be used to fulfill General Education requirements. Core, distribution and free elective courses must be chosen such that the total number of semester hours in courses 300 level or higher is 48.

BACHELOR OF ARTS – BIOLOGY (Suggested Eight-Semester Sequence)

First Semester

BIOL103	Principles of Biology (4)
CHEM140	General Chemistry (4)
ENGL101	College Writing Skills (3)
MATH107	PreCalculus (4)
HPE	Activity (1)
	TOTAL
	16 sem. hrs.

Second Semester

BIOL240	Zoology (4)
CHEM301	General Organic Chemistry (4)
ENGL102	Specialized College Writing and Research Skills (3)
MATH260	Elements of Statistics (3)
HPE	Health (2)
	TOTAL
	16 sem. hrs.

Third Semester

BIOL230	Botany (4)
CHEM302	General Biochemistry (4)
	Biol Elective (3)
	Core (3)
	Free Elective (3)
	TOTAL
	17 sem. hrs.

Fourth Semester

BIOL300	Genetics (4)
BIOL340	Animal Physiology or Biology Elective (4 or 3)
	Core (3)
	Core (3)
	Free Elective (3)
	TOTAL
	16 or 17 sem. hrs.

Fifth Semester

BIOL305	Cell/Molecular Biology (4)
BIOL500	Ecology (4)
PHYS201	Physics I (4)
	Free Elective (3)
	TOTAL
	15 sem. hrs.

Sixth Semester

BIOL	Biology Elective (3)
BIOL320	Plant Physiology or Biology Elective (4 or 3)
PHYS202	Physics II (4)
	Core (3)
	TOTAL
	13 or 14 sem. hrs.

Seventh Semester

BIOL	Biology Elective or BIOL500 Ecology (4 or 3)
	Core (3)
	Core (3)
	Distribution (3)
	TOTAL
	12 or 13 sem. hrs.

Eighth Semester

	Distribution (9)
	Core (3)
	Free Elective (3)
	TOTAL
	15 sem. hrs.

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.

I.	General Education Requirements MATH107, not MATH104, fulfills the math skills requirement for this degree program. CHEM241 fulfills the computer competency requirement.	50 sem. hrs.
II.	Required Biology Courses BIOL103 Principles of Biology (4) BIOL230 Botany (4) BIOL240 Zoology (4) BIOL300 Genetics (4) BIOL305 Cell/Molecular Biology (4) BIOL320 Plant Physiology (4) or BIOL340 Animal Physiology (4) BIOL400 Ecology (4)	28 sem. hrs.
III.	Biology Electives (Electives must be chosen from the following courses: BIOL302, BIOL307, BIOL308, BIOL309, BIOL314, BIOL318, BIOL320, BIOL340, BIOL341, BIOL342, BIOL343, BIOL395, BIOL403, BIOL409, BIOL437, BIOL442, BIOL447, BIOL457, BIOL490, BIOL520, BIOL521, BIOL522, BIOL523, BIOL540, BIOL541, BIOL543, BIOL555, BIOL562, BIOL572, BIOL597, BIOL598, BIOL599, BIOL601, BIOL602, BIOL604, BIOL610, BIOL640, BIOL641, BIOL643, BIOL646, BIOL661, BIOL664, BIOL681, BIOL682, BIOL699, TREC595, TREC596, TREC597, TREC598, TREC599, PYMA___.)	15 sem. hrs.

IV. Required Supporting Courses	27-32 sem. hrs.
MATH211 Analytical Geometry and Calculus I (4)	
MATH260 Elements of Statistics (3) or	
MATH212 Analytical Geometry and Calculus II (4)	
CHEM240 Principles of Chemistry I (4)	
CHEM301 General Organic Chemistry (4) or	
CHEM330 Organic Chemistry I (4) and	
CHEM331 Organic Chemistry II (4)	
CHEM302 General Biochemistry (4)	
PHYS201 Physics I (4)	
PHYS202 Physics II (4)	
TOTAL	120 sem. hrs.

BACHELOR OF SCIENCE – BIOLOGY (Suggested Eight-Semester Sequence)

First Semester

ENGL101 College Writing Skills (3)	
MATH107 Precalculus (4)	
BIOL103 Principles of Biology (4)	
HPE Activity (1)	
CHEM240 Principles of Chemistry I (4)	
TOTAL	16 sem. hrs.

Second Semester

ENGL102 Specialized College Writing and Research Skills (3)	
BIOL240 Zoology (4)	
MATH211 Analytical Geometry and Calculus I (4)	
Health Lecture (2)	
TOTAL	13 sem. hrs.

Third Semester

BIOL230 Botany (4)	
CHEM301 General Organic Chemistry (4) or	
CHEM330 Organic Chemistry I (4)	
MATH260 Elements of Statistics (3) or	
MATH212 Analytical Geometry and Calculus II (4)	
Core (3)	
TOTAL	14 or 15 sem. hrs.

Fourth Semester

BIOL300 Genetics (4)	
CHEM331 Organic Chemistry II (4)	
Core (3)	
Core (3)	
Distribution (3)	
TOTAL	17 sem. hrs.

Fifth Semester

BIOL305 Cell/Molecular Biology (4)	
CHEM302 General Biochemistry (4)	
PHYS201 Physics I (4)	
Distribution (3)	
TOTAL	15 sem. hrs.

Sixth Semester

BIOL320 Plant Physiology (4) or	
BIOL340 Animal Physiology (4)	
PHYS202 Physics II (4)	
Core (3)	
Core (3)	
Distribution (3)	
TOTAL	17 sem. hrs.

Seventh Semester

BIOL400 Ecology (4)	
Core (3)	
Distribution (3)	
Biology Electives (6)*	
TOTAL	16 sem. hrs.

Eighth Semester

Biology Electives (9)*	
Core (3)	
TOTAL	12 sem. hrs.

* Choose five from the following electives: BIOL302, BIOL307, BIOL308, BIOL309, BIOL314, BIOL318, BIOL320, BIOL340, BIOL341, BIOL342, BIOL343, BIOL395, BIOL403, BIOL409, BIOL437, BIOL442, BIOL447, BIOL457, BIOL490, BIOL520, BIOL521, BIOL522, BIOL523, BIOL540, BIOL541, BIOL543, BIOL555, BIOL562, BIOL572, BIOL597, BIOL598, BIOL599, BIOL601, BIOL602, BIOL604, BIOL610, BIOL640, BIOL641, BIOL643, BIOL646, BIOL661, BIOL664, BIOL681, BIOL682, BIOL699, TREC595, TREC596, TREC597, TREC598, TREC599, PYMA__.

PRE-PROFESSIONAL PROGRAMS

Students planning post baccalaureate study in the fields of dentistry, pharmacy, the medical professions, or the veterinary sciences may enroll in pre-professional programs as described below.

PRE-MEDICAL AND OTHER HEALING ARTS PROGRAMS

Edinboro University offers a course of study in the liberal arts and sciences well suited to a professional career in the healing arts. The individual requirements of medical, osteopathic, dental, veterinary and other healing arts schools vary widely. However, a program can be undertaken which will satisfy the entrance requirements of most schools. The first two years are critical, and the courses recommended below should be taken with few exceptions. At the end of the school year, the specific requirements of those institutions which are of interest to the student should be reviewed with his/her advisor. As soon as a pre-healing arts student identifies himself/herself, preferably upon entering Edinboro University, he/she will be assigned to an advisor from the Pre-Healing Arts Committee. After the first two years the student should also decide upon the degree he/she wishes to obtain from Edinboro University. Usually the Bachelor of Science in biology or chemistry is most appropriate. However, the faculty advisor should be consulted. At the beginning of the third year at Edinboro University, the student should plan to take any special entrance examinations required for the healing arts school of his/her choice.

BACHELOR OF SCIENCE – BIOLOGY – PRE-MEDICAL (Suggested Eight-Semester Sequence)

First Semester

BIOL103 Principles of Biology (4)	
CHEM210 Principles of Chemistry I (4)	
ENGL101 College Writing Skills (3)	
MATH107 PreCalculus (4)	
HPE Activity (1)	
TOTAL	16 sem. hrs.

Second Semester

BIOL240 Zoology (4)	
CHEM241 Principles of Chemistry II (4)	
ENGL102 Specialized College Writing and Research Skills (3)	
MATH211 Analytical Geometry and Calculus I (4)	
HPE Health (2)	
TOTAL	17 sem. hrs.

Third Semester

BIOL230 Botany (4) or	
BIOL300 Genetics (4)	
CHEM330 Organic Chemistry I (4)	
MATH212 Analytical Geometry and Calculus II (4)	
Core (3)	
Distribution (3)	
TOTAL	18 sem. hrs.

Fourth Semester

BIOL230 Botany (4) or	
BIOL300 Genetics (4)	
CHEM331 Organic Chemistry II (4)	
Core (3)	
Core (3)	
Distribution (3)	
TOTAL	17 sem. hrs.

Fifth Semester

BIOL341	Vertebrate Anatomy (3)		
BIOL400	Ecology (4)		
CHEM302	General Biochemistry (4)		
PHYS201	Physics I (4)		
	Core (3)		
		TOTAL	18 sem. hrs.

Sixth Semester

BIOL308	Microbiology (4)		
BIOL340	Animal Physiology (4)		
MATH260	Elements of Statistics (3)		
PHYS202	Physics II (4)		
	Distribution (3)		
		TOTAL	18 sem. hrs.

Seventh Semester

	Core (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

BIOL	Biology Electives (15)		
	Distribution (3)		
		TOTAL	18 sem. hrs.

Note: Distribution and core courses must be chosen such that the total number of semester hours in courses 300 level or higher is at least 48.

BE A DOCTOR IN 7 YEARS!

Edinboro University students can now get an early start on medical school! Edinboro has established an affiliation with the Lake Erie College of Osteopathic Medicine (LECOM) of Erie, Pa., enabling Edinboro University Pre-Medical Biology majors to enter LECOM after their junior year of college. The agreement establishes a three plus four program in family medicine practice between the two schools, which refers to three years undergraduate study at Edinboro and four years of medical school at LECOM. Students who successfully complete their first year of studies at LECOM will earn a Bachelor of Science degree in biology from Edinboro.

To qualify, students must be in the top 25 percent of their high school graduating class and score at least 1150 on the SAT, or 25 on the ACT. Once admitted, students must maintain at least a 3.2 grade point average overall and in all required science and math courses for their first three years at Edinboro University. Then to be admitted to LECOM, students must score 24 or better on the medical college admissions test, preferably with a score of seven or better in each subject.

The three plus four program in family medicine provides students with an interest in family practice the advantage of complementary program strengths at Edinboro University and a state-of-the-art medical education at Lake Erie College of Osteopathic Medicine. Students interested in applying for admission to the three plus four program in family medicine should apply for pre-med (444) and write LECOM next to their selection.

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**Environmental Science – Biology**

This curriculum is intended to provide the student with a specialized study of environmental biology and related scientific disciplines at the undergraduate level.

I.	General Education Requirements	50 sem. hrs.	
	MATH107, not MATH104, fulfills the math skills requirement for this degree program.		
II.	Required Biology Courses	20 sem. hrs.	
			TOTAL
			16 or 17 sem. hrs.

	BIOL103	Principles of Biology (4)	
	BIOL230	Botany (4)	
	BIOL240	Zoology (4)	
	BIOL300	Genetics (4)	
	BIOL400	Ecology (4)	
III.	Biology Electives		21 sem. hrs.
IV.	Required Supporting Courses*		29-30 sem. hrs.
	CHEM240	Principles of Chemistry I (4)	
	CHEM241	Principles of Chemistry II (4) (fulfills computer competency requirement)	
	CHEM202	General Organic Chemistry (4)	
	PHYS201	Physics I (4)	
	PHYS202	Physics II (4)	
	MATH211	Analytical Geometry and Calculus I (4)	
	MATH260	Elements of Statistics (3) or	
	MATH212	Analytical Geometry and Calculus II (4)	
	ENGL404	Technical Writing (3)	
	GEOG145	Environmental Issues (3) (fulfills ethics requirement)	
	GEOG245	Conservation of Natural Resources (3) (fulfills American civilizations requirement)	
	GEOS375	Environmental Geology (3)	
		TOTAL	120 sem. hrs.

* The student may elect to use some of these courses to fulfill general education requirements. Note: Distribution and core courses must be chosen such that the total number of semester hours in courses 300 level or higher is at least 48.

BACHELOR OF SCIENCE – ENVIRONMENTAL SCIENCE-BIOLOGY**(Suggested Eight-Semester Sequence)****First Semester**

BIOL103	Principles of Biology (4)		
CHEM240	Principles of Chemistry I (4)		
ENGL101	College Writing Skills (3)		
MATH107	PreCalculus (4)		
HPE	Activity (1)		
		TOTAL	16 sem. hrs.

Second Semester

BIOL240	Zoology (4)		
CHEM241	Principles of Chemistry II (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH211	Analytical Geometry and Calculus I (4)		
HPE	Health (2)		
		TOTAL	17 sem. hrs.

Third Semester

BIOL230	Botany (4)		
CHEM301	General Organic Chemistry (4)		
MATH212	Analytical Geometry and Calculus II (4) or		
MATH260	Elements of Statistics (3)		
	Core (3)		
		TOTAL	14 or 15 sem. hrs.

Fourth Semester

BIOL340	Animal Physiology or Biology Elective (4 or 3)		
ENGL404	Technical Writing (3)		
GEOG145	Environmental Issues (3)		
	Core (3)		
	Distribution (3)		
		TOTAL	15 or 16 sem. hrs.

Fifth Semester

BIOL400	Ecology or Biology Elective (3 or 4)		
GEOS101	Dynamic Earth (3)		
PHYS201	Physics I (4)		
GEOG340	Economic Geography (3)		
	Distribution (3)		
		TOTAL	16 or 17 sem. hrs.

Sixth Semester

BIOL	Biology Elective (3 or 4)		
BIOL320	Plant Physiology or Biology Elective (4 or 3)		
GEOS375	Environmental Geology (3)		
PHYS202	Physics II (4)		
	TOTAL	14 or 15 sem. hrs.	

Seventh Semester

BIOL	Biology Electives (6) and/or		
BIOL400	Ecology (4)		
GEOG245	Conservation of Natural Resources (3)		
	General Education (3)		
	TOTAL	16 sem. hrs.	

Eighth Semester

BIOL	Biology Electives (6, 7 or 8)		
	General Education (6)		
	TOTAL	12, 13, or 14 sem. hrs.	

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.

BACHELOR OF SCIENCE DEGREE**Medical Technology**

I.	General Education Requirements	50 sem. hrs.	
	MATH260 fulfills the math skills requirement for this degree program.		
II.	Specialization in Medical Technology	32 sem. hrs.	
	MEDT402 Clinical Chemistry (8)		
	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*	37 sem. hrs.	
	MATH107 Pre-calculus Mathematics (4)		
	BIOL308 Microbiology (4)		
	BIOL312 Human Physiology and Anatomy I (4)		
	BIOL313 Human Physiology and Anatomy II (4)		
	BIOL318 Clinical Microbiology (4)		

BIOL562	Basic Immunology (1)		
Biology	Elective (3)		
CHEM140	General Chemistry (4)		
CHEM301	General Organic Chemistry (4)		
CHEM302	General Biochemistry (4)		
CHEM310	Quantitative Analysis (4)		
PHYS201	Physics I (4)		
PHYS202	Physics II (4)		
IV.	Electives to Total		120 sem. hrs.

* The student may elect to use some of these courses to fulfill General Education requirements. Note: Distribution and core courses must be chosen such that the total number of semester hours in courses 300 level or higher is at least 48.

Fees

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:

Department of Biology and Health Services
Edinboro University of Pennsylvania
Edinboro, Pennsylvania 16444
Phone: (814) 732-2500

**BACHELOR OF SCIENCE – MEDICAL TECHNOLOGY
(Suggested Eight-Semester Sequence)****First Semester**

BIOL312	Human Physiology and Anatomy I (4)		
CHEM140	General Chemistry (4)		
ENGL101	College Writing Skills (3)		
MATH107	PreCalculus (4)		
HPE	Activity (1)		
	TOTAL		16 sem. hrs.

Second Semester

BIOL313	Human Physiology and Anatomy II (4)		
CHEM301	General Organic Chemistry (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH260	Elements of Statistics (3)		
HPE	Health (2)		
	TOTAL		16 sem. hrs.

Third Semester

CSCI104	Essential Computing (3)		
CHEM302	General Biochemistry (4)		
PHYS201	Physics I (4)		
	Core (3)		
	TOTAL		14 sem. hrs.

Fourth Semester

BIOL308	Microbiology (4)		
PHYS202	Physics II (4)		
	Core (3)		
	Core (3)		
	TOTAL		14 sem. hrs.

Fifth Semester

CHEM310	Quantitative Analysis (4)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	Free Elective (1)		
	TOTAL		14 sem. hrs.

Sixth Semester

BIOL318	Clinical Microbiology (4)		
BIOL562	Basic Immunology (1)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	TOTAL	14 sem. hrs.	

Seventh Semester

MEDT402	Clinical Chemistry (8)		
MEDT405	Bacteriology (6)		
MEDT411	Serology and Immunology (4)		
	TOTAL	18 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.	

NUCLEAR MEDICINE TECHNOLOGY PROGRAM

A nuclear medicine technologist (NMT), under the direction of a qualified physician, prepares and administers radiopharmaceuticals, performs in-vitro assays, calibrates and operates instruments for detection of radiation, processes and prepares organ images, and maintains laboratory safety and quality control.

The student must have a solid background in physiology, chemistry, physics and mathematics. The curriculum involves three years of general education, physiology, chemistry, physics and mathematics at Edinboro University. This is followed by twelve months of study, which includes didactic and practical training, under the direction of the Nuclear Medicine Institute or other clinical sites. The Institute (NMI) is currently located at The University of Findlay, Findlay, Ohio. Students will be assisted in applying for the clinical year, but Edinboro University cannot guarantee the availability of clinical training.

Bachelor of Science Degree**Nuclear Medicine Technology**

I.	General Education Requirements	50 sem. hrs.	
	MATH260, not MATH104, fulfills the math skills requirement for this degree program.		
II.	Specialization in Nuclear Medicine	32 sem. hrs.	
	NMED401 Basic Math and Nuclear Physics (3)		
	NMED402 Nuclear Medicine Instrumentation (3)		
	NMED403 Radionuclide Measurements (3)		
	NMED404 Radiobiology and Radiation Protection (3)		
	NMED405 Lectures in Physiology, Hematology, Chemistry (3)		
	NMED406 Clinical Application of Radionuclides (4)		
	NMED407 Technical Evaluation of Nuclear Medicine Procedures (6)		
	NMED408 Clinical Nuclear Medicine, Hematology and Chemistry Practicum (7)		
III.	Required Supporting Courses*	24 sem. hrs.	
	MATH107 Precalculus (4)		
	BIOL312 Human Physiology/Anatomy I (4)		
	BIOL313 Human Physiology/Anatomy II (4)		
	CHEM140 General Chemistry (4)		
	CHEM301 General Organic Chemistry (4)		
	CHEM302 General Biochemistry (4)		
IV.	Free Electives	14 sem. hrs.	
	TOTAL	120 sem. hrs.	

* Selected courses in this area may be used to fulfill General Education requirements. Note: Distribution and core courses must be chosen such that the total number of semester hours in courses 300 level or higher is 48.

Fees

Fees charged by the University are the same as those charged for all other programs. Total costs for the first three years will be at the standard rates charged for all Edinboro University students.

During the year in the hospital, students will pay the University a total of \$100 (subject to change). They may be required to pay a fee for instruction directly to the hospital.

For further information about the program, contact:

Department of Biology and Health Services
Edinboro University of Pennsylvania
Edinboro, Pennsylvania 16444
Phone: (814) 732-2500

BACHELOR OF SCIENCE – NUCLEAR MEDICINE TECHNOLOGY (Suggested Eight-Semester Sequence)**First Semester**

BIOL312	Human Physiology and Anatomy I (4)		
CHEM140	General Chemistry (4)		
ENGL101	College Writing Skills (3)		
MATH107	Precalculus (4)		
HPE	Activity (1)		
	TOTAL	16 sem. hrs.	

Second Semester

BIOL313	Human Physiology and Anatomy II (4)		
CHEM301	General Organic Chemistry (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH260	Elements of Statistics (3)		
HPE	Health (2)		
	TOTAL	16 sem. hrs.	

Third Semester

CHEM302	General Biochemistry (4)		
PHIL200	Introduction to Philosophy and Values (3)		
PHYS201	Physics I (4) Core (3)		
	TOTAL	14 sem. hrs.	

Fourth Semester

PHYS202	Physics II (4)		
CSCI104	Essential Computing I (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	TOTAL	16 sem. hrs.	

Fifth Semester

	Core (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	TOTAL	12 sem. hrs.	

Sixth Semester

	Free Electives (14)		
	TOTAL	14 sem. hrs.	

Seventh Semester

NMED401	Basic Mathematics and Nuclear Physics (3)		
NMED402	Nuclear Medicine Instrumentation (3)		
NMED403	Radionuclide Measurement (3)		
NMED404	Radiobiology and Radiation Protection (3)		
NMED405	Physiology, Hematology and Chemistry (3)		
	TOTAL	15 sem. hrs.	

Eighth Semester

NMED406	Clinical Radionuclides (4)		
NMED407	Nuclear Medicine Procedures (6)		
NMED408	Clinical Medicine Practicum (7)		
	TOTAL	17 sem. hrs.	

Bachelor of Science in Education Degree

Secondary Education – Biology

Please refer to the Secondary Education Department section for information regarding this program.

WILDLIFE BIOLOGY PROGRAM

The Wildlife Biology Program has been placed on moratorium due to low enrollment and is no longer accepting students into this program.

Business and Economics Department

FACULTY: Gerald Carnes, Paul J. Ditmore, Michael Engdahl, Terry Farlik, Mark Haney, Michael J. Hannan, Kosin Isariyawongse, Asri Jantan, Jung Seek Kim, Scott E. Miller, Gayle Morris, Janis. Stamm

Mission

The mission of the department of Business and Economics is to deliver quality undergraduate education in the areas of business and economics. The department is to provide opportunities for students for personal, professional and career advancement through comprehensive curricula, quality instruction and academic advisement. The department is committed to providing this educational experience through a faculty engaged in scholarship, professional development activities and service that enhance disciplinary and practitioner knowledge and develop pedagogical and advisement skills.

Vision

Our vision is to be a leading undergraduate business and economics education institution in the region, fostering student commitment to lifelong intellectual growth and professional development in an increasingly complex world.

The department offers course work leading to an associate degree in business administration, baccalaureate degrees in economics and business administration, and a minor program in economics. The B.S. degree in business administration offers six concentrations: accounting and forensic accounting, comprehensive business administration, financial services, marketing, and management information systems. The overriding goal of all of these programs is to prepare students for a successful professional career in the field he or she has chosen. The department recognizes that an integral part of this preparation is the exposure of students to the liberal arts, and sciences and so each of the programs offered by the department has this general education exposure as a required component.

The department actively participates in the University internship program, assisting students in placement with regional business organizations to gain practical employment experience. Academically superior juniors and seniors may be nominated for membership in a national business honor society.

In order to be graduated from a program offered by the department, the student must have a 2.0 cumulative grade point average in all courses taken in the department offered for graduation.

Edinboro University of Pennsylvania, through its Department of Business and Economics, is accredited by the Accreditation Council for Business Schools and Programs (ACBSP) to offer the following business degrees:

- the Associate of Science in Business Administration
- the Bachelor of Science in Business Administration with concentrations in Accounting and Forensic Accounting, Comprehensive Business Administration, Financial Services, Management Information Systems, and Marketing.

ACBSP is a leading accreditation agency for business education. The programs of study at accredited schools have been examined for currency, relevance, comprehensiveness and rigor. 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.*

Associate of Science Degree

Business Administration

The program is designed to introduce the fundamentals of business management to the individual who wishes to obtain knowledge of the principles of accounting, economics, finance, management, marketing, information resources management and business law, and a foundation in general education. The program acquaints the student with organizations and fundamental business procedures. The program's graduates are qualified for a variety of management positions.

I. General Education Requirements		24 sem. hrs.
II. Business Foundation Requirements		30 sem. hrs.
ACCT215	Principles of Accounting I (3)	
ACCT220	Principles of Accounting II (3)	
BUAD320	Information Resources Management (3)	
BUAD260	Business Law I (3)	
ECON220	Principles of Microeconomics (3)	
ECON225	Principles of Macroeconomics (3)	
FIN300	Principles of Finance (3)	
MGMT300	Principles of Management (3)	
MKTG300	Principles of Marketing (3)	
	Business Elective One of the following courses:	
ACCT325	Cost Accounting (3)	
ECON345	Money and Banking (3)	
MGMT355	Human Resource Management (3)	
MKTG320	Advertising and Promotion (3)	
III. Electives		6 sem. hrs.
	TOTAL	60 sem. hrs.

ASSOCIATE OF SCIENCE – BUSINESS ADMINISTRATION (Suggested Four-Semester Sequence)

First Semester

ACCT215	Principles of Accounting I (3)	
CSCI104	Essentials of Computing I (3)	
ECON220	Principles of Microeconomics (3)	
ENGL101	College Writing Skills (3)	
BUAD000	Business Primer (0)	
	One General Education Core Course (3)	
	TOTAL	15 sem. hrs.

Second Semester

ACCT220	Principles of Accounting II (3)	
MATH105	College Algebra (3)	
ECON225	Principles of Macroeconomics (3)	
ENGL102	Writing and Research Skills (3)	
BUAD000	Business Primer (0)	
	One General Education Core Courses (3)	
	TOTAL	15 sem. hrs.

Third Semester

BUAD260	Business Law I (3)	
FIN300	Principles of Finance (3)	
MGMT300	Principles of Management (3)	
	Two General Education Core Course (6)	
	TOTAL	15 sem. hrs.

Fourth Semester

BUAD320	Information Resources Management (3)	
MKTG300	Principles of Marketing (3)	
	One General Education Core Course (3)	
	Upper-level Business Elective (ACCT325, ECON345, MGMT355 or MKTG320) (3)	
	Elective (3)	
	TOTAL	15 sem. hrs.

This is the *recommended* course sequence necessary to complete the Associate of Science in Business Administration degree requirements in four semesters. The student should meet with his/her academic advisor for individualized advice on course sequencing. Academic advisors can only advise; meeting graduation requirements is the student's responsibility.

Many first-semester freshmen are more comfortable taking only 12 semester hours their first semester in college. This is acceptable and a student still can complete the degree requirements in four semesters providing he/she adds three semester hours to a later semester.

Note: Transfer students must complete a minimum of 15 credits in the Business and Economics Department at Edinboro University.

Bachelor of Science Degree

Business Administration

The Bachelor of Science in Business Administration has had major programmatic changes implemented in the Fall semester 2010. Students matriculating into the Business & Economics Department prior to that date should consult an earlier catalogue.

All candidates for the Bachelor of Science degree in business administration are required to take a broad program of business foundation course work prior to seeking admission into one of the following concentrations: accounting or forensic accounting, comprehensive business administration, financial services, management information systems, or marketing. Admission to a concentration will be granted following the completion of 36 credit hours including completion of 3 of the following courses: ACCT215, ACCT220, BUAD160, BUAD260, ECON220, ECON225 and QUAN340. A GPA of 2.25 in the major and overall is required to enter the concentrations.

The **Accounting** concentration is designed to provide students with an understanding of the concepts, theory and conventions common to the practice of managerial (private business and industry), institutional (government and not-for-profit), and public accounting. Students concentrating in accounting may take specified courses from the criminal justice program to earn a **Forensic Accounting** focus. The **Forensic Accounting** program prepares students for financial fraud-detection work. Forensic accountants often work for law enforcement agencies such as the FBI and for public accounting firms.

The **Comprehensive Business Administration** concentration introduces students to the diversified functions of business including management, finance, accounting, marketing, operations, human resources, information resources management and business law. Students are encouraged to gain a broad working knowledge of the theory and practice of all the business functions while widening their scope of analysis and decision-making. This concentration enables students to seek employment in any function of business including finance, production, logistics and human resource management. It prepares students for careers in large and small businesses, in non-profit organizations, in government and as entrepreneurs. The flexibility of this program makes it especially appropriate for students interested in **International Business**. Courses in International Economics, International Finance, Comparative Management, International Marketing and the Legal Environment of International Business can be taken within this program to prepare students for careers in multi-national firms, expatriate positions and import/export management.

The **Financial Service** concentration is designed to prepare students for careers as financial planners and advisors, investment managers and financial managers in financial planning agencies, depository institutions, non-depository holding and investment offices, insurance companies, real estate brokerages and investment houses, securities and commodity dealerships, and other commercial enterprises. The financial service concentration is registered with Certified Financial Planner Board of Standards Inc. Graduates of a registered financial planning program meet the educational requirements to take the CFP® Certification Examination. Edinboro University of Pennsylvania does not certify individuals to use the CEP® and CERTIFIED FINANCIAL PLANNER™ and CEP (with flame logo)® certification marks CFP certification is solely granted by Certified Financial Planner Board of Standards Inc. to person who, in addition to completing an education requirement such as this CFP Board Registered Program, have met its ethics, experience and examination requirements. Certified Financial Planner Board of Standards Inc. owns the marks CFP® and CERTIFIED FINANCIAL PLANNER™ and CFP (with flame logo)®, which it awards to individuals who successfully complete initial and ongoing certification requirements.

The **Management Information Systems (MIS)** concentration provides students with both the business and the technology knowledge necessary to work in information management. The business courses provide students with an understanding of the structure and functions of business and, through the

flexible upper-level business courses requirement, allow students to develop expertise in one or more specialized area. The computer science coursework provides an understanding of the information resources and technology essential to managing a business.

The **Marketing** concentration is designed to provide an understanding of the marketing function within consumer, business-to-business and institutional markets. It gives students the training and experience necessary to enable them to find employment in careers as product, brand and marketing managers; electronic marketers; marketing analysts; marketing researchers; promotions managers; sales directors and managers; buyers; and in other marketing related positions.

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 | | 48 sem. hrs. |
| A. Skills | | 12 sem. hrs. |
| ENGL101 | College Writing Skills (3) | |
| ENGL102 | Specialized College Writing and Research Skills (3) | |
| MATH150 | Applied Mathematics for Business (3)* | |
| CSCI104 | Essentials of Computing I (3) | |
| | * Management Information Systems students take MATH208 Essentials of Calculus. | |
| B. Core | | 21 sem. hrs. |
| | Artistic Expression (3) | |
| | World Civilizations (3) | |
| | American Civilizations (3) | |
| | (Forensic Accounting students take POLI201 American Government) | |
| | Human Behavior (3) | |
| | Cultural Diversity and Social Pluralism (3) (Forensic Accounting students take SOC100 Principles of Sociology) | |
| | Ethics (3) All students take PHIL240 Introduction to Contemporary Moral Issues (3) | |
| | Natural Science (3) | |
| C. Distribution | | 12 sem. hrs. |
| | Humanities and Fine Arts (3) | |
| | ENGL370 Business English is used to meet the Humanities and Fine Arts requirement | |
| | Social and Behavioral Sciences (6) | |
| | ECON220 and ECON225 are used to meet the Social and Behavioral Science Distribution requirement. | |
| | Science and Mathematics (3) | |
| | MATH260 is used to meet the Science and Mathematics Distribution requirement. | |
| D. Health and Physical Education | | 3 sem. hrs. |
| II. Business Foundation Requirements | | 30 sem. hrs. |
| | (To be completed by all students. A minimum of 3 of these courses, not including BUAD000, must be taken prior to admission to the concentrations of Accounting or Forensic Accounting, Comprehensive Business Administration, Financial Services, Management Information Systems and Marketing) | |
| | ACCT215 Principles of Accounting I (3) | |
| | ACCT220 Principles of Accounting II (3) | |
| | BUAD000 Business Primer (0) | |
| | BUAD160 Business in Society (3) | |
| | BUAD260 Business Law I (3) | |
| | ECON220 Principles of Microeconomics (3)** | |
| | ECON225 Principles of Macroeconomics(3)** | |
| | QUAN340 Statistics for Business and Economics (3) | |
| | ** Taken as a General Education course (Distribution: Social and Behavioral Sciences | |
| | Business Requisites . | |
| | (To be completed by all students following admission to their concentration) | |
| | BUAD001 Career Preparation Seminar (0) | |
| | BUAD320 Information Resource Management (3) | |
| | BUAD475 Business Decision Making (3) | |
| | FIN300 Principles of Finance (3) | |
| | MGMT300 Principles of Management (3) | |
| | MKTG300 Principles of Marketing (3) | |
| III. Concentration Requirements | | |
| A. Accounting | | 24-48 sem. hrs. |
| | ACCT315 Intermediate Accounting I (3) | |

ACCT320	Intermediate Accounting II (3)	
ACCT325	Managerial Accounting (3)	
ACCT330	Federal Individual Income Taxation (3)	
ACCT400	Auditing I (3)	
ACCT420	Advanced Accounting (3)	
BUAD365	Business Law II (3)	
Any 3 semester hours of 300 or higher courses not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG. (3)		
B.	Comprehensive Business Administration	24 sem. hrs.
One upper-level (310 or above) course not elsewhere required in each of the following areas:		
	Economics (ECON) (3)	
	Finance (FIN) (3)	
	Management (MGMT) (3)	
	Marketing (MKTG) (3)	
Any 12 semester hours of 310 or higher courses not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG.		
C.	Financial Services	24 sem. hrs.
ACCT330	Federal Individual Income Taxation (3)	
ECON345	Money and Banking (3)	
FIN400	Financial Investment Analysis (3)	
FIN360	Personal Financial Planning (3)	
MKTG390	Professional Selling (3)	
Nine semester hours of courses at the 300 or higher level not elsewhere required with the following prefixes: ACCT, BUAD, ECON, MGMT, MKTG. (9)***		
*** Students wishing to satisfy for CFP Board's education requirement to sit for the CFP® Certified Examination must take ACCT335 Tax Accounting - Advanced Topics (3 sem. hrs.), BUAD365 Business Law II (3 sem. hrs.), and FIN420 Retirement, Estate, and Risk Management Planning (3 sem. hrs.).		
D.	Forensic Accounting	48 sem. hrs.
Accounting Requirements: 24 sem. hrs.		
ACCT315	Intermediate Accounting I (3)	
ACCT320	Intermediate Accounting II (3)	
ACCT325	Managerial Accounting (3)	
ACCT330	Federal Individual Income Taxation (3)	
ACCT400	Auditing I (3)	
ACCT420	Advanced Accounting (3)	
ACCT430	Forensic Accounting (3)	
BUAD365	Business Law II (3)	
Criminal Justice Requirements: 24 sem. hrs.		
CRIM100	Introduction to Criminal Justice (3)	
CRIM321	Organized Crime and Corruption (3)	
CRIM340	Criminal Investigation (3)	
CRIM462	Pa. Criminal Code (3)	
CRIM469	Criminal Procedure and Evidence (3)	
POLI365	Prosecution and the Courts (3)	
POLI463	Civil Liberties (3)	
POLI465	Constitutional Law and Judicial Process (3)	
E.	Management Information Systems (MIS)	42 sem. hrs.
Business Requirement: 18 sem. hrs.		
Any combination of courses at the 310 or higher level not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG. Must include 3 of the following 4 courses: ACCT325, MGMT350, MGMT355 and MGMT370.		
Computer Science Requirements: 24 sem. hrs.		
CSCI125	Intro. to Computer Science (3)	
CSCI130	Principles of Programming I (3)	
CSCI230	Principles of Programming II (3)	
CSCI280	System Operations and Administration (3)	
CSCI304	Web Design and Implementation (3)	
CSCI308	Systems Analysis (3)	
CSCI313	Data Base Management Systems (3)	
Select one course from the following: (3)		
CSCI207	Visual Basic	
CSCI320	Business Programming in Cobol	
CSCI330	Object Oriented Programming	
F.	Marketing	24 sem. hrs.
MKTG320	Advertising and Promotion (3)	
MKTG360	Channels of Distribution (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 else-		

where required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG. (9)****

**** No more than 3 semester hours may be MKTG.

- IV. Free Electives***** 0 or 18 sem. hrs.
- Accounting, Comprehensive Business Administration, Financial Services and Marketing have 18 semester hours of free electives. Forensic Accounting and Management Information Systems have no 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.

TOTAL for Forensic Accounting 126 sem. hrs.

BACHELOR OF SCIENCE – BUSINESS ADMINISTRATION (Suggested Eight-Semester Sequence)

ACCOUNTING, COMPREHENSIVE BUSINESS ADMINISTRATION, FINANCIAL SERVICES, MARKETING (FIRST FOUR SEMESTERS ARE IDENTICAL)

First Semester

BUAD000	Business Primer (0)
BUAD160	Business in Society (3)
CSCI104	Essentials of Computing I (3)
ENGL101	College Writing Skills (3)
MATH150	Applied Mathematics for Business (3)
PHIL240	Introduction to Contemporary Moral Issues (3)

TOTAL 15 sem. hrs.

Second Semester

BUAD000	Business Primer (0)
ECON220	Principles of Microeconomics (3)
ENGL102	Specialized College Writing and Research Skills (3)
	Two General Education Core Courses (6)
	General Education Health & Physical Education (3)

TOTAL 15 sem. hrs.

Third Semester

ACCT215	Principles of Accounting (3)
ECON225	Principles of Macroeconomics (3)
ENGL370	Business English (3)
MATH260	Elements of Statistics (3)
	One General Education Core Course (3)

TOTAL 15 sem. hrs.

Fourth Semester

ACCT220	Principles of Accounting II (3)
BUAD260	Business law (3)
QUAN340	Statistics for Business & Economics (3)
	Two General Education Core Courses (6)

TOTAL 15 sem. hrs.

Accounting Concentration

Fifth Semester

ACCT315	Intermediate Accounting I (3)
ACCT330	Federal Individual Income Taxation (3)
MGMT300	Principles of Management (3)
MKTG300	Principles of Marketing (3)
	One General Education Core Course (3)

TOTAL 15 sem. hrs.

Sixth Semester

ACCT320	Intermediate Accounting II (3)
ACCT325	Managerial Accounting (3)
BUAD001	Career Preparation Seminar: Business (0)
BUAD365	Business Law II (3)
FIN300	Principles of Finance (3)
BUAD320	Information Resource Management (3)

TOTAL 15 sem. hrs.

An internship (3 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

Seventh Semester

ACCT400	Auditing I (3)		
BUAD475	Business Decision Making (3)		
	Free Electives (9)		
	TOTAL	15 sem. hrs.	

Eighth Semester

ACCT420	Advanced Accounting (3)		
	One Upper-level Business Elective (3)		
	Free Electives (9)		
	TOTAL	15 sem. hrs.	

COMPREHENSIVE BUSINESS ADMINISTRATION CONCENTRATION**Fifth Semester**

FIN300	Principles of Finance (3)		
MGMT300	Principles of Management (3)		
MKTG300	Principles of Marketing (3)		
	One General Education 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, and ECON Course (12)		
	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

	Two Upper-level Business Elective Courses (6)		
	Free Electives (9)		
	TOTAL	15 sem. hrs.	

Eighth Semester

BUAD475	Business Decision Making (3)		
	Two Upper-level Business Electives (6)		
	Free Electives (6)		
	TOTAL	15 sem. hrs.	

FINANCIAL SERVICES CONCENTRATION**Fourth Semester**

ACCT220	Principles of Accounting II (3)		
BUAD260	Business Law I (3)		
QUAN340	Statistics for Business & Economics (3)		
	Two General Education Core Courses (6)		
	TOTAL	15 sem. hrs.	

Fifth Semester

ACCT330	Federal Individual Income Taxation (3)		
FIN300	Principles of Finance (3)		
MGMT300	Principles of Management (3)		
MKTG300	Principles of Marketing (3)		
	One General Education Core Course (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

ACCT335	Advanced Tax Accounting (3)		
BUAD001	Career Preparation Seminar: Business (0)		

BUAD320	Information Resource Management (3)		
ECON345	Money & Banking (3)		
BUAD365	Business Law II (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

FIN360	Personal Financial Planning (3)		
MKTG390	Professional Selling (3)		
	Free Electives (9)		
	TOTAL	15 sem. hrs.	

Eighth Semester

BUAD475	Business Decision Making (3)		
FIN400	Financial Investment Analysis (3)		
FIN420	Retirement, Estate, and Risk Management Planning (3)		
	Free Electives (6)		
	TOTAL	15 sem. hrs.	

NOTE: ACCT335, BUAD365 and FIN420 are not required for the Bachelor of Science in Business Administration, Financial Services degree. However, they are required to meet the educational requirements to sit for the CFP® Certified Examination. Students not wishing to meet those requirements may substitute upper-level business courses not elsewhere required in the program.

MARKETING CONCENTRATION**Fifth Semester**

FIN300	Principles of Finance (3)		
MGMT300	Principles of Management (3)		
MKTG300	Principles of Marketing (3)		
	One General Education Core Course (3)		
	Free Elective (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

BUAD001	Career Preparation Seminar (0)		
BUAD320	Information Resource Management (3)		
	One Upper Level Marketing Course (3)		
	Two Upper-level Required Related Business Course (6)		
	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

BUAD475	Business Decision Making (3)		
MKTG320	Advertising and Promotion (3)		
MKTG360	Channels of Distribution (3)		
	One upper level Required Related Business Course (3)		
	Free Electives (3)		
	TOTAL	15 sem. hrs.	

Eighth Semester

MKTG475	Marketing Analysis and Planning (3)		
	One upper level Marketing Course (3)		
	Free Electives (9)		
	TOTAL	15 sem. hrs.	

**BACHELOR OF SCIENCE – BUSINESS ADMINISTRATION
FORENSIC ACCOUNTING FOCUS
(Suggested Eight-Semester Sequence)**

First Semester

BUAD000	Business Primer (0)
BUAD160	Business in Society (3)
CSCI104	Essentials of Computing I (3)
ENGL101	College Writing Skills (3)
MATH150	Applied Mathematics for Business (3)
PHIL240	Introduction to Contemporary Moral Issues (3)
TOTAL	
15 sem. hrs.	

Second Semester

BUAD000	Business Primer (0)
CRIM100	Introduction to Criminal Justice (3)
ECON220	Principles of Microeconomics (3)
ENGL102	Specialized Writing and Research Skills (3)
POLI201	American Government (3)
	General Education Health and Physical Education Course (3)
TOTAL	
15 sem. hrs.	

Third Semester

ACCT215	Principles of Accounting I (3)
ECON225	Principles of Macroeconomics (3)
ENGL370	Business English (3)
MATH260	Elements of Statistics (3)
SOC100	Principles of Sociology (3)
TOTAL	
15 sem. hrs.	

Fourth Semester

ACCT220	Principles of Accounting II (3)
BUAD260	Business Law I (3)
QUAN340	Statistics for Business and Economics (3)
	Two General Education Core Courses (6)
TOTAL	
15 sem. hrs.	

Fifth Semester

ACCT315	Intermediate Accounting I (3)
ACCT330	Federal Individual Income Taxation (3)
CRIM340	Criminal Investigation (3)
MGMT300	Principles of Management (3)
MKTG300	Principles of Marketing (3)
POLI465	Constitution Law/Judicial Procedure (3)
TOTAL	
18 sem. hrs.	

Sixth Semester

ACCT320	Intermediate Accounting II (3)
ACCT325	Managerial Accounting (3)
BUAD001	Career Preparation Seminar: Business (0)
BUAD365	Business Law II (3)
FIN300	Principles of Finance (3)
POLI365	Prosecution and the Courts (3)
TOTAL	
15 sem. hrs.	

Seventh Semester

ACCT400	Auditing I (3)
BUAD320	Information Resource Management (3)
CRIM321	Organized Crime and Corruption (3)
CRIM462	Pa. Criminal Code (3)
	Two General Education Core Courses (6)
TOTAL	
18 sem. hrs.	

Eighth Semester

ACCT420	Advanced Accounting (3)
ACCT430	Forensic Accounting (3)
BUAD475	Business Decision Making (3)
CRIM469	Criminal Procedure and Evidence (3)
POLI463	Civil Liberties (3)
TOTAL	
15 sem. hrs.	

**MANAGEMENT INFORMATION SYSTEMS
(Suggested Eight-Semester Sequence)**

First Semester

BUAD000	Business Primer (0)	
BUAD160	Business in Society (3)	
CSCI104	Essentials of Computing I (3)	
ENGL101	College Writing Skills (3)	
MATH208	Essentials of Calculus (3)	
PHIL240	Introduction to Contemporary Moral Issues (3)	
TOTAL		15 sem. hrs.

Second Semester

BUAD000	Business Primer (0)	
CSCI125	Introduction to Computer Science (3)	
CSCI130	Principles of Programming I (3)	
ECON220	Principles of Microeconomics (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
	General Education Health & Physical Education Course (3)	
TOTAL		15 sem. hrs.

Third Semester

ACCT215	Principles of Accounting I (3)	
CSCI230	Principles of Programming II (3)	
ECON225	Principles of Macroeconomics (3)	
ENGL370	Business English (3)	
MATH260	Elements of Statistics (3)	
TOTAL		15 sem. hrs.

Fourth Semester

ACCT220	Principles of Accounting II (3)	
BUAD260	Business Law I (3)	
CSCI313	Data Base Management Systems (3)	
QUAN340	Statistics for Business and Economics (3)	
	One General Education Core Course (3)	
TOTAL		15 sem. hrs.

Fifth Semester

CSCI280	System Operations & Administration (3)	
FIN300	Principles of Finance (3)	
MGMT300	Principles of Management (3)	
MKTG300	Principles of Marketing (3)	
	One General Education Core Course (3)	
TOTAL		15 sem. hrs.

Sixth Semester

BUAD001	Career Preparation Seminar: Business (0)	
BUAD320	Information Resource Management (3)	
	Upper Level Programming Language (3)	
	Two Upper-level Business Requirements (6)	
	General Education Core Course (3)	
TOTAL		15 sem. hrs.

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Business Administration/Management Information Systems 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 MATH208 Essentials of Calculus must take MATH105 College Algebra as a prerequisite.

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.

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.

Seventh Semester

CSCI304	Web Design and Implementation (3)		
CSCI308	Systems Analysis (3)		
	Two Upper-level Business Electives (6)		
	One General Education Core Course (3)		
	TOTAL		15 sem. hrs.

Eighth Semester

BUAD475	Business Decision Making (3)		
	Two Upper-level Business Requirements Courses (6)		
	Two General Education Core Courses (6)		
	TOTAL		15 sem. hrs.

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Business Administration/Management Information Systems 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 MATH208 Essentials of Calculus must take MATH105 College Algebra as a prerequisite.

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.

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.

I.	General Education Requirements		48 sem. hrs.
A.	Skills		12 sem. hrs.
	ENGL101	College Writing Skills (3)	
	ENGL102	Specialized Writing and Research (3)	
	MATH105	College Algebra (3)	
	CSCI104	Essentials of Computing I (3)	
B.	Core		21 sem. hrs.
	Artist Expression (3)		
	World Civilizations (3)		
	American Civilizations (3)		
	Human Behavior (3)		
	Cultural Diversity and Social Pluralism (3)		
	Ethics (3)		
	Natural Science (3)		
C.	Distribution		12 sem. hrs.
	Humanities and Fine Arts (3 or 6)		
	Social and Behavioral Sciences (3 or 6)		
	Science and Mathematics (3 or 6)		
	MATH260 is used to meet 3 semester hours of the Science and Mathematics Distribution requirement.		
D.	Health and Physical Education		3 sem. hrs.
II.	Economics Courses		30 sem. hrs.
A.	Required Economics Courses		15 sem. hrs.
	ECON225	Principles of Macroeconomics(3)	

	ECON220	Principles of Microeconomics (3)	
	ECON319	Intermediate Economic Theory: Macro (3)	
	ECON320	Intermediate Economic Theory: Micro (3)	
	QUAN340	Statistics for Business and Economics (3)	
B.	Economics Electives		15 sem. hrs.
	Any combination of 300 or higher ECON courses not elsewhere required.		
III.	Required Related Courses		9 sem. hrs.
	ACCT215	Principles of Accounting I (3)	
	ACCT220	Principles of Accounting II (3)	
	FIN300	Principles of Accounting (3)	
IV.	Free Electives*		33 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

ACCT215	Principles of Accounting I (3)		
CSCI104	Essentials of Computing I (3)		
ECON220	Principles of Microeconomics (3)		
ENGL101	College Writing Skills (3)		
MATH105	College Algebra (3)		
BUAD000	Business Primer (0)		
	TOTAL		15 sem. hrs.

Second Semester

ACCT220	Principles of Accounting II (3)		
ECON225	Principles of Macroeconomics (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH260	Elements of Statistics (3)		
BUAD000	Business Primer (0)		
	One General Education Core Course (3)		
	TOTAL		15 sem. hrs.

Third Semester

ECON319	Intermediate Economic Theory: Macro (3)		
FIN300	Principles of Finance (3)		
QUAN340	Statistics for Business and Economics (3)		
	Two General Education Core Courses (6)		
	TOTAL		15 sem. hrs.

Fourth Semester

ECON320	Intermediate Economic Theory: Micro (3)		
	One Upper-level Economics Elective (3)		
	Two General Education Core Courses (6)		
	Free Electives (3)		
	TOTAL		15 sem. hrs.

Fifth Semester

	One Upper-level Economics Elective (3)		
	Two General Education Core Courses (6)		
	Two General Education Distribution Courses (6)		
	TOTAL		15 sem. hrs.

Sixth Semester

	One Upper-level Economics Elective (3)		
	General Education Health and Physical Education (3)		
	One General Education Distribution Course (3)		
	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

One Upper-level Economics Elective (3)
Free Electives (12)

TOTAL 15 sem. hrs.

Eighth Semester

One Upper-level Economics Elective (3)
Free Electives (12)

TOTAL 15 sem. hrs.

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Economics degree requirements in eight semesters. The student should meet with his/her academic advisor for individualized advice on course sequencing. **Academic advisors can only advise; meeting graduation requirements is the student's responsibility.**

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). 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.

Chemistry Department

FACULTY: Paul A. Edwards, Qun Gu, Gerald J. Hoffman, Naod Kebede, Donald J. Renn, Janet S. Rogers, Joanne H. Smith, Theresa Thewes, Lisa M. Unico

The Department of Chemistry offers instruction in chemistry leading to the Bachelor of Science degree, Chemistry; the Bachelor of Science degree, Chemistry/Industrial Biochemistry; the Bachelor of Science degree, Chemistry/Forensic Science; and the Bachelor of Arts, Chemistry. It also offers a minor in chemistry, supervises students in the Pre-pharmacy transfer program, and cooperates with the Department of Secondary Education in offering the Bachelor of Science degree in Secondary Education – Chemistry.

The Bachelor of Science degree in Chemistry is intended for those who expect to pursue a graduate degree in chemistry or a related science or to enter business or industry as a chemist. It also serves as the basis of an excellent pre-medical program.

The Bachelor of Science degree in Chemistry/Industrial Biochemistry is designed for those students who desire a career in the biotechnology 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. They also qualify for positions as trace evidence technicians with various law enforcement agencies. This program provides training in both chemistry 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 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.

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.

Bachelor of Science Degree

Chemistry

I. General Education Requirements		53 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	Science 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		12-13 sem. hrs.
BIOL103	Principles of Biology (4)**	
MATH211	Anal. Geometry and Calculus I (3)**	
MATH212	Anal. Geometry and Calculus II (4)	
MATH311	Anal. Geometry and Calculus III (4) or	
MATH317	Intro. to Differential Equations (3) or	
CSCI130	Principles of Programming I (3)	
MATH260	Elements of Statistics (3)	
FREN101	First Course in French (3)** or	
GERM101	First Course in German** or	
RUSS101	First Course in Russian**	
PHYS320	University Physics I (4)**	
PHYS321	University Physics II (4)**	
PHYS322	Phys. Measurements I (1)	
PHYS323	Phys. Measurements II (1)	
IV. Electives		7 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, 330, 331, 310, 530, 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 Chem I (4)
	Core (3)
	Core (3)

TOTAL 17 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
MATH212	Anal Geom/Calc II (4)
CHEM241	Principles Chem II (4)
PHYS320	University Physics I (4)
PHYS322	Physical Measurements Laboratory I (1)

TOTAL 16 sem. hrs.

Third Semester

PHYS321	University Physics II (4)		
PHYS323	Physical Measurements II (1)		
CHEM330	Organic Chemistry I (4)		
MATH260	Elements of Statistics (3)		
	FREN101 (3) or GERM101 (3) or RUSS101 (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

CHEM310	Quantitative Analysis (4)		
CHEM331	Organic Chemistry II (4)		
CHEM280	Laboratory Safety (1)		
BIOL103	Principles of Biology (3)		
	MATH213 (4) or MATH317 (3) or CSC11303 (3)		
	TOTAL	15 or 16 sem. hrs.	

Fifth Semester

CHEM302	General Biochemistry (4)		
CHEM381	Searching Scientific Literature (1)		
CHEM450	Instrumental Analysis (5)		
CHEM530	Physical Chemistry I (4)		
	TOTAL	14 sem. hrs.	

Sixth Semester

CHEM531	Physical Chem II (4)		
CHEM533	Polymer Chem (3)		
	Core (3)		
	HPE Elective (3)		
	Distribution (3)		
	TOTAL	16 sem. hrs.	

Seventh Semester

CHEM420	Inorganic Chemistry (3)		
CHEM421	Adv. Organic Chemistry (3)		
CHEM535	Adv. Chemistry Lab (1)		
	Core (3)		
	Elective (3)		
	TOTAL	16 sem. hrs.	

Eighth Semester

CHEM481	Seminar (1)		
CHEM490	Independent Study (2)		
	Elective (3-4)		
	Core (3)		
	Distribution (3)		
	TOTAL	15 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	Scientific Literature (1)		
CHEM460	Forensic Analysis (3)		
CHEM481	Seminar (1)		
CHEM450	Instrumental Analysis (5)		
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 Invest. (3)	
	CRIM443	Arson Invest. (3)	
	CRIM500	Sem. in the CJ Sys. (3)	
	POL1365	Pros. and the Courts (3)	
V.	Required Supporting Courses		47 sem. hrs.
	ANTH180	Intro. to Anthropology (3)	
	BIOL103	Principles of Biology (4)**	
	BIOL300	Genetics (4)	
	BIOL305	Cell/Molecular Biology (4)	
	BIOL409	Molecular Biology (4)	
	MATH211	Anal. Geom. and Calc. I (4)**	
	MATH212	Anal. Geom. and Calc. II (4)	
	MATH260	Elements of Statistics (3)	
	POLI201	American Government (3)	
	PHYS201	Physics I (4)	
	PHYS202	Physics II (4)	
	SOC100	Principles of Sociology (3)	
	ANTH385	Intro. to Phys. Anthropology (3) or	
	HIST379	U.S. Police History (3) or	
	SOC530	Soc. of Deviant Behavior (3)	
VI.	Electives		1 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, CHEM241, CHEM330, CHEM331, CHEM310, CHEM530, CHEM531.

** Courses required by the degree that satisfy General Education requirements.

Students will be required to maintain a 2.5 QPA in required coursework.

Related Programs at Edinboro

Bachelor of Science in Chemistry
 Bachelor of Science in Industrial Biochemistry
 Bachelor of Arts in Criminal Justice
 Associate of Arts in Criminal Justice

**BACHELOR OF SCIENCE – CHEMISTRY/FORENSIC SCIENCES
(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)		
CHEM240	Principles Chemistry I (4)		
CRIM100	Intro to Criminal Justice (3)		
BIOL103	Principles Biology (4)		
	TOTAL		14 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
CHEM241	Principles Chemistry II (4)		
ANTH180	Intro Anthropology (3)		
POLI201	American Government (3)		
	Core 1 (3)		
	TOTAL		16 sem. hrs.

Bachelor of Science Degree**Chemistry/Forensic Sciences**

There is evidence that laboratories dealing with the investigation of criminal acts are moving toward hiring employees that are trained more as scientists than as police investigators. There is a large employment opportunity for individuals who have the appropriate training. The employment outlook for graduates of this program is excellent. Graduates of the program qualify for Civil Service examinations for forensic scientist trainee. There is currently a need for forensic chemists that will continue in Pennsylvania (and nationwide) with an increased emphasis on forensic evidence collection and analysis spurred by developments in DNA testing and other scientific advancements. Additionally, the increase in drug interdiction cases has placed new burdens on chemical analysis units at all levels of law enforcement. Graduates of the program qualify for entry level positions with the FBI, state police, and crime labs. Graduates also qualify for positions as trace evidence technicians with various law enforcement agencies.

This program highly recommends an internship (40 hours of work for six weeks) that will be supervised by a chemistry faculty member. This program provides training to meet the demands of investigative laboratories and a strong foundation to pursue graduate programs in forensic science and chemistry. Careful selection of courses can lead to a minor in criminal justice.

I.	General Education Requirements	52 sem. hrs.
II.	Chemistry*	39 sem. hrs.

Third Semester				BIOL308	Microbiology (4) or		
CHEM330	Organic Chemistry I (4)			BIOL310	Human Anat./Phys. (4)		
BIOL300	Genetics (4)			BIOL300	Genetics (4)		
MATH211	Anal Geom/Calc I (4)			BIOL305	Cell and Molecular Biology (4)		
	Core (3)			BIOL409	Molecular Biology (4)		
		TOTAL	15 sem. hrs.	CSCI130	Princ of Prog I (3)		
Fourth Semester				MATH211	Anal. Geometry and Calculus I**		
CHEM310	Quantative Analysis (4)			MATH212	Anal Geom/Calc II (4)		
CHEM331	Organic Chemistry II (4)			MATH260	Elem of Statistics (3)		
MATH212	Anal Geom/Calc II (4)			PHYS320	University Physics I (4)**		
SOC100	Principles Sociology (3)			PHYS321	University Physics II (4)**		
		TOTAL	15 sem. hrs.	PHYS322	Physical Measurements I (1)		
				PHYS323	Physical Measurements II (1)		
				IV. Free Electives		2 sem. hrs.	
Fifth Semester							TOTAL 120 sem. hrs.
CHEM341	Biochemistry (4)						
CRIM469	Criminal Proc. and Evidence (3)						
CHEM381	Scientific Literature (1)						
MATH260	Elements of Statistics (3)						
PHYS201	Physics I (4)						
		TOTAL	15 sem. hrs.				
Sixth Semester							
BIOL305	Cell and Molecular Biology (4)						
CHEM280	Laboratory Safety (1)						
CRIM355	Criminalistics (3)						
PHYS202	Physics II (4)						
	Core (3)						
		TOTAL	15 sem. hrs.				
Seventh Semester							
CHEM450	Instrumental Analysis (5)						
CHEM530	Physical Chemistry I (4)						
	Choose one of the following electives:						
CRIM340	Criminal Investigations (3) or						
CRIM443	Arson Investigations (3) or						
CRIM500	Seminar in the Criminal Justice System (3) or						
POLI365	Prosecution and the Courts (3)						
	Choose one of the following:						
ANTH385	Intro to Physical Anthropology (3) or						
HIST379	U.S. Police History (3) or						
SOC530	Sociology of Deviant Behavior (3)						
		TOTAL	15 sem. hrs.				
Eighth Semester							
CHEM460	Forensic Analysis (3)						
CHEM481	Seminar (1)						
BIOL409	Molecular Biology (4)						
	Distribution I (3)						
	HPE (3)***						
	Elective (1)						
		TOTAL	15 sem. hrs.				

* Students enrolled in the bachelor of science program must attain a minimum cumulative grade point average of 2.00 in chemistry courses to be eligible for graduation. A minimum grade of "C" is required in CHEM240, CHEM241, CHEM330, CHEM331, CHEM310, CHEM341 and CHEM530.

** Courses required by the degree that satisfy General Education requirements.

BACHELOR OF SCIENCE – CHEMISTRY/INDUSTRIAL BIOCHEMISTRY (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
MATH211	Analytical Geometry/Calculus I (4)		
BIOL103	Principles Biology (4)		
CHEM240	Principles Chemistry I (4)		
		TOTAL	15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
MATH212	Analytical Geometry/Calculus II (4)		
CHEM241	Principles Chemistry II (4)		
PHYS320	University Physics I (4)		
PHYS322	Physical Measurements Laboratory I (1)		
		TOTAL	16 sem. hrs.

Third Semester

CHEM330	Organic Chemistry I (4)		
MATH260	Elements of Statistics (3)		
PHYS321	University Physics II (4)		
PHYS323	Physical Measurements II (1)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fourth Semester

CHEM331	Organic Chemistry II (4)		
CHEM310	Quantitative Analysis (4)		
CHEM280	Laboratory Safety (1)		
CSCI130	Principles of Programming I (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fifth Semester

BIOL308	Microbiology (4) or		
BIOL310	Human Anatomy (4)		
BIOL300	Genetics (4)		
CHEM341	Biochemistry (4)		
	Core (3)		
		TOTAL	15 sem. hrs.

Sixth Semester

BIOL305	Cell and Molecular Biology (4)		
CHEM541	Advanced Biochemistry (3)		
	HPE Elective (3)		
	Core (3)		
	Core (3)		
		TOTAL	16 sem. hrs.

Bachelor of Science Degree

Chemistry/Industrial Biochemistry

I. General Education Requirements		53 sem. hrs.	
II. Specialization in Chemistry*		37 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)		
CHEM530	Physical Chemistry I (4)		
CHEM531	Physical Chemistry II (4)		
CHEM541	Advanced Biochemistry (3)		
III. Required Supporting Courses		28 sem. hrs.	
BIOL103	Principles of Biology (4)**		
			TOTAL 16 sem. hrs.

Seventh Semester

CHEM450	Instrumental Analysis (5)		
CHEM530	Physical Chemistry I (4)		
	Core (3)		
	Distribution (3)		
	TOTAL	15 sem. hrs.	

Core 5 (3)

Core 6 (3)

TOTAL 15 sem. hrs.

Eighth Semester

CHEM531	Physical Chemistry II (4)		
BIOL409	Molecular Biology/Genomics (4)		
	Distribution (3)		
	Elective (3)		
	TOTAL	14 sem. hrs.	

Fifth Semester

CHEM341	Biochemistry (4)		
CHEM530	Physical Chemistry I (4)		
	HPE Elective (3)		
	Core 4 (3)		
	Distribution 1 (3)		
	TOTAL	17 sem. hrs.	

Sixth Semester

CHEM531	Physical Chemistry II (4)		
	Core 3 (3)		
	Distribution 2 (3)		
	Free Electives (6)		
	TOTAL	16 sem. hrs.	

Bachelor of Arts Degree**Chemistry**

I.	General Education Requirements	51 sem. hrs.	
II.	Specialization in Chemistry	29 sem. hrs.	
	CHEM240 Principles of Chemistry I (4)		
	CHEM241 Principles of Chemistry II (4)		
	CHEM280 Laboratory Safety (1)		
	CHEM310 Quantitative Analysis (4)		
	CHEM330 Organic Chemistry I (4)		
	CHEM331 Organic Chemistry II (4)		
	CHEM341 Biochemistry (4)		
	CHEM530 Physical Chemistry I (4)		
	CHEM531 Physical Chemistry II (4)		
III.	Required Supporting Courses	8-10 sem. hrs.	
	MATH211 Anal. Geometry and Calculus (4)		
	MATH212 Anal. Geometry and Calculus (4)		
	MATH260 Elements of Statistics (3)		
	PHYS201 Physics I (4) or		
	PHYS320 University Physics I (4) and		
	PHYS322 Physics Measurements Lab I (1)		
	PHYS202 Physics II (4) or		
	PHYS321 University Physics II (4) and		
	PHYS323 Physics Measurements Lab II (1)		
IV.	Free Electives	30-32 sem. hrs.	
	TOTAL	120 sem. hrs.	

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

ENGL101	College Writing Skills (3)		
MATH211	Analytical Geometry and Calculus I (4)		
CHEM240	Principles of Chemistry I (4)		
	Core 2 (3)		
	TOTAL	14 sem. hrs.	

Second Semester

ENGL102	Specialized College Writing and Research Skills(3)		
PHYS201	Physics I (4) or		
PHYS320	University Physics I (4) and		
PHYS322	Physical Measurements Laboratory I (1)		
CHEM241	Principles of Chemistry II (4)		
MATH212	Analytical Geometry and Calculus II (4)		
	TOTAL	16 sem. hrs.	

Third Semester

PHYS202	Physics II (4) or		
PHYS321	University Physics II (4) and		
PHYS323	Physical Measurements Laboratory II (1)		
CHEM330	Organic Chemistry I (4)		
MATH260	Elements of Statistics (3)		
	Core 1 (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

CHEM310	Quantitative Analysis (4)		
CHEM331	Organic Chemistry II (4)		
CHEM280	Laboratory Safety (1)		

Seventh Semester

Free Electives (15)			
TOTAL	15 sem. hrs.		

Eighth Semester

Free Electives (12)			
TOTAL	12 sem. hrs.		

PRE-PHARMACY TRANSFER PROGRAM

Successful completion of the program outlined below should be sufficient for consideration for admission to most schools of pharmacy. However, early in his/her program of study the student should consult with their pre-pharmacy advisor and contact the specific schools he/she wishes to enter to obtain specific requirements of those institutions.

Admissions Requirements

Although the only requirement for admission to the Pre-Pharmacy program is admission to the University, students who meet a higher standard and finish the required curriculum with at least a 3.4 average are given first consideration for admission to the Doctor of Pharmacy program at LECOM. For selection to that program a student should score at least 1100 on the SAT or 24 on the ACT, and complete high school in the top 25 percent of their class with an average of at least 3.2 out of 4.0.

First Semester

ENGL101	College Writing Skills (3)		
MATH107	Precalculus (4)		
CHEM240	Principles of Chemistry I (4)		
BIOL103	Principles of Biology (4)		
PSYC101	General Psychology (3)		
	TOTAL	18 sem. hrs.	

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
MATH211	Analytical Geometry/Calculus (4)		
CHEM241	Principles of Chemistry II (4)		
PHYS201	Physics I (3)		
	TOTAL	18 sem. hrs.	

Third Semester

CHEM330	Organic Chemistry I (4)		
BIOL300	Genetics (4)		
COMM107	Public Speaking (3)		
ECON225	Principles of Macro-Economics (3)		
	Distribution 2 (3)		
	TOTAL	18 sem. hrs.	

Fourth Semester

CHEM331	Organic Chemistry II (4)		
BIOL305	Cell and Molecular Biology (4)		
MATH260	Elements of Statistics (3)		
	Arts and Humanities Elective (3)		
	Social Science Elective (3)		
	TOTAL	16 sem. hrs.	

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.

Communication and Media Studies Department

FACULTY: William Covington, Anthony Esposito, Kathleen M. Golden, Melissa K. Gibson Hancox, Jean G. Jones, Danielle Lawson, Anthony C. Peyronel, Andrew Smith, Timothy N. Thompson, Terrence L. Warburton, Howard Alan Wilson

The Department of Communication and Media Studies offers two undergraduate degrees (Communication Studies and Journalism and Mass Communication). The Communication Studies program offers optional concentrations in Advertising and Sales, Interpersonal and Organizational Communication, Media Management and Criticism, and Political Communication and Public Advocacy. The Journalism and Mass Communication program requires students to select one of three specializations: Broadcast, Print, or Public Relations.

Internship

The department's internship program includes a number of internship field study opportunities in special interest areas. Communication Studies majors may be granted from six to fifteen hours of academic credit for participating in approved off-campus activities in the field of communication. Journalism and Mass Communication majors may be granted three hours of academic credit for approved internship activities in journalism and related fields depending on the student's chosen academic specialization.

All majors in the Department of Communication and Media Studies must earn a minimum letter grade of "C" in all Communication and Journalism courses and in required English writing courses.

Bachelor of Arts Degree

Communication and Media Studies

I. General Education Requirements	48 sem. hrs.
II. Specialization in Communication and Media Studies Courses	42 sem. hrs.
A. Required Communication and Media Studies Courses	21 sem. hrs.
COMM100 Mass Communication and Modern Society (3)	
COMM107 Public Speaking (3)	
COMM125/SHLD125 Psychology of Communication (3)	
COMM150 Intro to Communication Studies (3)	
COMM310 Introduction to Communication Research (3)	
COMM416 Persuasion (3)	
COMM430 Organizational Communication (3)	
B. Communication and Media Studies Electives*	24 sem. hrs.
III. Free Electives	27 sem. hrs.
TOTAL	120 sem. hrs.

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

BACHELOR OF ARTS – COMMUNICATION AND MEDIA STUDIES (Suggested Eight-Semester Sequence)

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

Second Semester

CSCI104	Essentials of Computing (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH104	Finite Mathematics (3) Core (3)
COMM150	Intro to Communication Studies (3)
TOTAL	15 sem. hrs.

Third Semester

COMM310	Intro to Communication Research (3) Communication and Media Studies Elective (3) Distribution (3) Core (3) HPE Elective (3)
TOTAL	15 sem. hrs.

Fourth Semester

COMM416	Persuasion (3) Communication and Media Studies Elective (3) Communication and Media Studies Elective (3) Core (3) Distribution (3)
TOTAL	15 sem. hrs.

Fifth Semester

COMM430	Organizational Communication (3) Communication and Media Studies Elective (3) Core (3) Distribution (3) Distribution (3)
TOTAL	15 sem. hrs.

Sixth Semester

	Communication and Media Studies Elective (3) Communication and Media Studies Elective (3) Core (3) Core (3) Free Elective (3)
TOTAL	15 sem. hrs.

Seventh Semester

	Communication and Media Studies Elective (3) Communication and Media Studies Elective (3) Free Elective (3) Free Elective (3) Free Elective (3)
TOTAL	15 sem. hrs.

Eighth Semester

COMM496	Internship (12) Free Elective (3)
TOTAL	15 sem. hrs.

Bachelor of Arts Degree

Journalism and Mass Communication: Broadcast

I. General Education Requirements	48 sem. hrs.
II. Core Requirements	12 sem. hrs.
JOUR216	Beginning Reporting (3)
JOUR316	Intermediate Reporting (3)
JOUR364	Introduction to Mass Media (3)
JOUR406	Communications Law (3)
III. Cognate Courses	6 sem. hrs.
<i>Take two of the following:</i>	
COMM310	Comm Research (3)
COMM325	Interpersonal Comm (3)
COMM411	Political Campaign Comm (3)
COMM416	Persuasion and Propaganda (3)
COMM430	Organizational Comm (3)
COMM510	Criticism of Mass Media (3)

SPECIALIZATION		15 Sem. Hrs.	Seventh Semester	
JOUR407	Audio Production (3)		Free Elective (3)	
JOUR409	Television Production (3)		Free Elective (3)	
JOUR410	Radio/TV Journalism (3)		Free Elective (3)	
JOUR504	Advanced Broadcast Journalism (3)		Free Elective (3)	
<i>Plus one of the following:</i>			Free Elective (3)	
JOUR404	Radio/TV Announcing (3)			TOTAL 15 sem. hrs.
JOUR405	Broadcast Mark/Adv/Sales (3)			
JOUR408	Broadcast Media Management (3)			
JOUR421	Advanced Video Production (3)			
IV. Internship		0-3 sem. hrs.	COMM496 Internship (3)	
V. Free Electives	Internship	36-39 sem. hrs.	Free Elective (12)	
				TOTAL 15 sem. hrs.
	TOTAL	120 sem. hrs.		

BACHELOR OF ARTS – JOURNALISM AND MASS COMMUNICATION: BROADCAST (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
COMM107	Public Speaking (3) (Dist 1)		
JOUR216	Beginning Reporting (3)		
	Core (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Second Semester

JOUR326	Intro to Electronic Layout (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH104	Finite Mathematics (3)		
JOUR200	Journalism Ethics - (Core 6)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Third Semester

JOUR316	Intermediate Reporting (3)		
JOUR364	Introduction to MassMedia (3)		
	Core (3)		
	Core (3)		
	HPE Elective (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

JOUR406	Communications Law (3)		
JOUR409	Television Production (3)		
JOUR407	Audio Production (3)		
	Core (3)		
	Free Elective (3)		
	TOTAL	15 sem. hrs.	

Fifth Semester

JOUR410	Radio/TV Journalism (3)		
<i>Two of the following:</i>			
	COMM310, COMM325, COMM416, COMM419,		
	COMM430 or COMM510		
	Free Elective (3)		
	Distribution (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

	Advanced Broadcast Journalism (3)		
<i>Choose one of the following:</i>			
	JOUR404, JOUR405, JOUR408, JOUR421,		
	JOUR510, JOUR645 (3)		
	Free Elective (3)		
	Distribution (3)		
	Distribution (3)		
	TOTAL	15 sem. hrs.	

Bachelor of Arts Degree

Journalism and Mass Communication: Print

I. General Education Requirements		48 sem. hrs.
II. Required Core Courses		12 sem. hrs.
JOUR216	Beginning Reporting (3)	
JOUR316	Intermediate Reporting (3)	
JOUR364	Introduction to Mass Media (3)	
JOUR406	Communications Law (3)	
III. Specialization - Print		15 sem. hrs.
JOUR326to	Electronic Layout (3)	
JOUR416	Advanced Reporting (3)	
JOUR420	Feature Writing (3)	
JOUR423	Editorial Page (3)	
<i>Plus one of the following:</i>		
JOUR250	Photojournalism (3)	
JOUR324	Sports Writing (3)	
JOUR417	Electronic Layout (3)	
JOUR429	Magazine Writing (3)	
IV. Communication Cognate Courses		6 sem. hrs.
<i>Take two of the following:</i>		
COMM310	Communications Research (3)	
COMM325	Interpersonal Communications (3)	
COMM416	Persuasion and Propaganda (3)	
COMM430	Organizational Communication (3)	
COMM510	Criticism of Mass Communication (3)	
V. Internship		0-3 sem. hrs.
JOUR496	Internship	
VI. Free Electives		36-39 sem. hrs.
	TOTAL	120 sem. hrs.

BACHELOR OF ARTS – JOURNALISM AND MASS COMMUNICATION: PRINT (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
JOUR216	Beginning Reporting (3)		
MATH104	Finite Mathematics (3)		
	Distribution 1 (COMM107 Public Speaking)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Second Semester

JOUR327	Editing for Publications (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
CSCI104	Essential Computing I (3)		
	Core JOUR200 Journalism Ethics (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Third Semester

JOUR316	Intermediate Reporting (3)		
JOUR364	Introduction to Mass Media (3)		
	Core (3)		
	Core (3)		
	HPE Elective (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

JOUR326. to Electronic Layout (3)		
Free Elective (3)		
Core 4 (3)		
Distribution (3)		
Core (3)		
	TOTAL	15 sem. hrs.

Fifth Semester

JOUR416	Advanced Reporting (3)	
	Free Elective (3)	
	Distribution (3)	
	Distribution (3)	
	Choose one from the following four courses:	
	JOUR250,	
	JOUR324, JOUR417, JOUR429 (3)	
	TOTAL	15 sem. hrs.

Sixth Semester

JOUR420	Feature Writing (3)	
	<i>Choose two from the following six courses:</i>	
	COMM310,	
	COMM325, COMM416, COMM419, COMM430 and	
	COMM510	
JOUR406	Communications Law (3)	
	Free Electives (3)	
	TOTAL	15 sem. hrs.

Seventh Semester

JOUR423	The Editorial Page (3)	
	Free Electives (12)	
	TOTAL	15 sem. hrs.

Eighth Semester

JOUR450	Internship (3)	
	Free Elective (12)	
	TOTAL	15 sem. hrs.

VI. Free Electives	36-39 sem. hrs.
(All free elective courses must be taken from outside the journalism and communication areas)	120 sem. hrs.

OF ARTS – JOURNALISM AND MASS COMMUNICATION: PUBLIC RELATIONS
(Suggested eight-semester sequence)**First Semester**

ENGL101	College Writing Skills (3)	
JOUR216	Beginning Reporting (3)	
MATH104	Finite Mathematics (3)	
COMM107	Public Speaking Distribution 1 (3)	
	Core (3)	
	TOTAL	15 sem. hrs.

Second Semester

JOUR326	Intro to Electronic Layout (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
JOUR200	Journalism Ethics Core 6 (3)	
	Core (3)	
	Core (3)	
	TOTAL	15 sem. hrs.

Third Semester

JOUR316	Intermediate Reporting (3)	
JOUR364	Intro Mass Media (3)	
	Core (3)	
	Core (3)	
	HPE Elective (3)	
	TOTAL	15 sem. hrs.

Fourth Semester

JOUR406	Communications Law (3)	
JOUR360	Writing for Public Relations (3)	
JOUR365	Intro to Public Relations (3)	
	Core (3)	
	Distribution (3)	
	TOTAL	15 sem. hrs.

Fifth Semester

JOUR425	PR Program Design (3)	
	Distribution (3)	
	Distribution (3)	
	<i>Two of the following:</i>	
	COMM310, COMM325, COMM416, COMM419,	
	COMM430, COMM510	
	TOTAL	15 sem. hrs.

Sixth Semester

JOUR540	PR Management (3)	
	<i>Choose one of the following:</i>	
	JOUR390, JOUR405, JOUR409, JOUR417 (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.

Seventh Semester

	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.

Eighth Semester

JOUR496	Internship (3)	
	Free Electives (12)	
	TOTAL	15 sem. hrs.

Bachelor of Arts Degree**Journalism and Mass Communication: Public Relations**

I. General Education Requirements	48 sem. hrs.
(including COMM107, JOUR200 and JOUR326)	
II. Required Core Courses	12 sem. hrs.
JOUR216	Beginning Reporting (3)
JOUR316	Intermediate Reporting (3)
JOUR364	Intro to Mass Media (3)
JOUR406	Communications Law (3)
III. Specialization - Public Relations	15 sem. hrs.
JOUR360	Writing for PR (3)
JOUR365	Intro to PR (3)
JOUR425	PR Program Design (3)
JOUR540	PR Management (3)
	<i>Plus one of the following:</i>
JOUR390	Writing for Advertising I (3)
JOUR405	Broadcast Mark/Adv/Sales (3)
JOUR409	Television Production (3)
JOUR417	Advanced Electronic Layout (3)
IV. Communication Cognate Courses	6 sem. hrs.
	<i>Choose two from the following six courses:</i>
COMM310	Intro to Communication Research (3)
COMM325	Interpersonal Communication (3)
COMM416	Persuasion (3)
COMM419	Political Campaign Communication (3)
COMM430	Organizational Communication
COMM510	Criticism of Mass Media (3)
V. Internship	0-3 sem. hrs.
JOUR496	

English and Theatre Arts Department

FACULTY: Wendy W. Austin, Jeffrey Bartone, Rosemarie Blair, Luciana Bohne, Mary P. Carden, John Cussen, Deborah A. Dubartell, Bonnie L. Gaarden, Robert Bernard Hass, Robert W. Hellstrom, Robert W. Holderer, William R. Hunter, Elisabeth W. Joyce, Janet C. Kinch, Thomas J. Lipinski, Caroline N. Nobile, John Repp, Paul R. Rovang, Donald G. Sheehy, Jeremy Sideris, Roger L. Solberg, Sharon Taylor, , Catherine Whitley

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

To meet these goals, the Department of English and Theatre Arts offers the following Bachelor of Arts programs. For information concerning the requirements for the Bachelor of Science in Education degree programs in Secondary English, please refer to the Secondary Education Department.

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

The Theatre Arts staff offers the Bachelor of Arts in Theatre Arts degree and sponsors dramatic activities on campus. Students from many departments participate in performances staged in the Center for Performing Arts. Theatre Arts majors, who learn from actual play production as well as from class work, gain experience in proscenium and arena staging.

Bachelor of Arts Degree

Theatre Arts

I. General Education Requirements	48 sem. hrs.
II. Required Theatre Arts Courses	36 sem. hrs.
THEA203 Fundamentals of Acting (3)	
THEA218 Introduction to Theatre (3)	
THEA419 Theory and Criticism (3)	
THEA311 Stagecraft I (3)	
THEA314 Stage Lighting (3)	
THEA315 Scene Design (3)	
THEA318 History of Theatre to 1642 (3)	
THEA319 History of Theatre from 1660 to Present (3)	
THEA405 Directing I (3)	
THEA406 Directing II (3)	
THEA Electives (6)	
III. Free Electives	36 sem. hrs.
TOTAL	120 sem. hrs.

BACHELOR OF ARTS – THEATRE ARTS (Suggested Eight-Semester Sequence)

First Semester

ENGL101 College Writing Skills (3)	
THEA218 Intro to Theatre (3)	
THEA203 Fundamentals of Acting (3)	
Core 4 (3)	
Core 7 (3)	
TOTAL	15 sem. hrs.

Second Semester

ENGL102 Specialized College Writing and Research Skills (3)	
MATH104 Finite Mathematics (3)	
CSCI104 Essential Computing I (3)	
THEA311 Stagecraft I (3)	
Core 1 (3)	
TOTAL	15 sem. hrs.

Third Semester

THEA419 Dramatic Theory and Criticism (3)	
Distribution 1 (3)	
Core 3 (3)	
Core 5 (3)	
HPE Elective (3)	
TOTAL	15 sem. hrs.

Fourth Semester

THEA314 Stage Lighting (3)	
Free Elective (3)	
Core 6 (3)	
Distribution 1 (3)	
Distribution 3 (3)	
TOTAL	15 sem. hrs.

Fifth Semester

THEA315 Stage Design (3)	
Free Electives (6)	
Distribution 2 (3)	
Core 2 (3)	
TOTAL	15 sem. hrs.

Sixth Semester

THEA318 History of the Theatre to 1642 (3)	
THEA405 Directing I (3)	
Theatre Arts Elective (3)	
Free Electives (6)	
TOTAL	15 sem. hrs.

Seventh Semester

THEA319 History of Theatre: 1660 to Present (3)	
THEA406 Directing II (3)	
Theatre Arts Elective (3)	
Free Elective (6)	
TOTAL	15 sem. hrs.

Eighth Semester

Free Electives (15)	
TOTAL	15 sem. hrs.

Bachelor of Arts Degree

English

I. General Education Requirements	48 sem. hrs.
II. Major Requirements	39 sem. hrs.
A. Concentration in Literature	
1. Foundations Course (3 sem. hrs.)	
ENGL209 Foundations for Literary Study (3)	
2. Cluster A Courses (6 sem. hrs.)	
Choose two (at least one at 200-level) from	
ENGL260 Literature of the Ancient and Classical Worlds (3)	
ENGL261 Medieval and Renaissance Literature (3)	
ENGL325 Literature of the Bible I (3)	
ENGL326 Literature of the Bible II (3)	
ENGL332, 333, 334 Topics in Medieval and Renaissance Literature (3)	
ENGL388 Mythology (3)	
ENGL389 World Mythologies (3)	
ENGL411, 412 Medieval and Renaissance Authors (3) (3)	
3. Cluster B Courses (6 sem. hrs.)	
Choose two (at least one at 200-level) from	
ENGL241 British Literature I (3) ENGL241 British Literature I (3)	
ENGL242 British Literature II (3)	
ENGL335-7 Topics in British Literature (3)	
ENGL413, 414 British Authors (3)	

4. Cluster C Courses (6 sem. hrs.)
Choose two (at least one at 200-level) from
 ENGL201 American Literature Survey I (Origins-1865) (3)
 ENGL202 American Literature Survey II (1865-Present) (3)
 ENGL309 African-American Literature I (3)
 ENGL310 African-American Literature II (3)
 ENGL338, 339, 340 Topics in American Literature (3)
 ENGL415, 416 American Authors (3)

5. Literature Electives (12 sem. hrs.)
Choose four additional literature courses at 300- or 400-level

6. Capstone Courses (6 sem. hrs.)
 ENGL489 Modern Critical Theory (3)
 ENGL499 Thesis Seminar in Literature (3)

B. Concentration in Writing

1. Literature Survey Courses (12 sem. hrs.)

- Choose four from*
 ENGL201 American Literature Survey I (1620-1914) (3)
 ENGL202 American Literature Survey II (1914-Present) (3)
 ENGL241 British Literature I (3)
 ENGL242 British Literature II (3)
 ENGL260 Literature of the Ancient and Classical Worlds (3)
 ENGL261 Medieval and Renaissance Literature (3)

2. Writing Core (6 sem. hrs.)
 ENGL301 Creative Writing (3)
 ENGL385 Advanced Composition (3)

3. Intermediate Writing Courses (12 sem. hrs.)

- Choose four from*
 ENGL370 Business English (3)
 ENGL402 Fiction Workshop (3)
 ENGL403 Poetry Workshop (3)
 ENGL404 Technical Writing (3)
 ENGL440 Essay Workshop (3)
 THEA351 Playwriting (3)

4. Advanced Writing Courses (6 sem. hrs.)
Choose two from
 ENGL410 Advanced Technical Writing (3)
 ENGL441 Advanced Fiction Writing (3)
 ENGL442 Advanced Poetry Writing (3)
 ENGL443 Advanced Creative Nonfiction (3)
 ENGL444 Advanced Screenwriting (3)

5. Capstone Course (3 sem. hrs.)
 ENGL498 Thesis Seminar in Writing (3)

In addition to the above requirements for English-writing majors, the Department STRONGLY RECOMMENDS the successful completion of at least two additional writing or journalism courses, and at least two literature 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.

III. Free Electives 33 sem. hrs.
 TOTAL 120 sem. hrs.

**BACHELOR OF ARTS – ENGLISH/LITERATURE
 (Suggested Eight-Semester Sequence)**

First Semester

- ENGL101 College Writing Skills (3)
 MATH104 Finite Mathematics (3)
 CSCI104 Essential Computing I (3)
 HPE Elective (3)
 Core 4 (3)

TOTAL 15 sem. hrs.

Second Semester

- ENGL102 Specialized College Writing and Research Skills (3)
 ENGL209 Foundation for Literary Study (3)
 Cluster A Elective (3)*
 Core 1 (3)
 Core 6 (3)

TOTAL 15 sem. hrs.

Third Semester

- Cluster A Elective (3)*
 Cluster B Elective (3)**
 Distribution 1 (3)
 Core 2 (3)
 Core 5 (3)

TOTAL 15 sem. hrs.

Fourth Semester

- Cluster B Elective (3)**
 Cluster C Elective (3)***
 Core 3 (3)
 Core 7 (3)
 Distribution 1 (3)

TOTAL 15 sem. hrs.

Fifth Semester

- Cluster C Elective (3)***
 Literature Elective (3)
 Free Elective (3)
 Distribution 2 (3)
 Distribution 2 (3)

TOTAL 15 sem. hrs.

Sixth Semester

- ENGL489 Literature Elective (3)
 Modern Critical Theory (3)
 Free Electives (9)

TOTAL 15 sem. hrs.

Seventh Semester

- Literature Elective (6)
 Free Electives (9)

TOTAL 15 sem. hrs.

Eighth Semester

- ENGL499 Thesis Seminar in Lit. (3)
 Free Electives (12)

TOTAL 15 sem. hrs.

* Cluster A courses - choose two of the following: ENGL260, ENGL261, ENGL325, ENGL326, ENGL332, ENGL333, ENGL334, ENGL388, ENGL389, ENGL411, and/or ENGL412

** Cluster B courses - choose two of the following: ENGL241, ENGL242, ENGL335-ENGL337, ENGL413, and/or ENGL414

*** Cluster C courses - choose two of the following: ENGL201, ENGL202, ENGL309, ENGL310, ENGL338, ENGL339, ENGL340, ENGL415, and/or ENGL416

**BACHELOR OF ARTS – ENGLISH/WRITING
 (Suggested Eight-Semester Sequence)**

First Semester

- ENGL101 College Writing Skills (3)
 MATH104 Finite Mathematics (3)
 CSCI104 Essential Computing I (3)
 HPE Elective (3)
 Core 4 (3)

TOTAL 15 sem. hrs.

Second Semester

- ENGL102 Specialized College Writing and Research Skills (3)
 Core 1 (3)
 Core 2 (3)
 Core 5 (3)
 Core 7 (3)

TOTAL 15 sem. hrs.

Third Semester

ENGL301 Creative Writing (3)
Choose one of the following: ENGL201, ENGL241 or ENGL260 (3)

Core 3 (3)
Distribution 1 (3)
Free Elective (3)

TOTAL 15 sem. hrs.

Fourth Semester

ENGL385 Advanced Composition (3)
Choose one of the following: ENGL202, ENGL242 or ENGL261 (3)

Core 6 (3)
Distribution 2 (3)
Free Elective (3)

TOTAL 15 sem. hrs.

Fifth Semester

Choose one of the following: ENGL201, ENGL241, or ENGL261 (3)

Choose two Intermediate Writing Courses (6)

Distribution 3 (3)
Free Elective (3)

TOTAL 15 sem. hrs.

Sixth Semester

Choose one of the following: ENGL202, ENGL242, or ENGL262 (3)

Choose two Intermediate Writing Courses (6)

Distribution 1 (3)
Free Elective (3)

TOTAL 15 sem. hrs.

Seventh Semester

Choose one Advanced Writing Course (3)

Free Electives (12)*

TOTAL 15 sem. hrs.

Eighth Semester

Choose one Advanced Writing Course (3)

ENGL498 Thesis Seminar (3)

Free Electives (9)**

TOTAL 15 sem. hrs.

* It is recommended that at least two of these courses be an upper level writing or journalism course.

** It is recommended that at least two of these courses be literature courses.

Bachelor of Arts Degree**Humanities/English**

I. General Education Requirements	48 sem. hrs.
II. English Concentration	36 sem. hrs.
Sophomore Literature Courses (6)	
American Literature Courses (6)	
Literary Forms Courses (6)	
English Language Courses (6)	
English Literature Courses (6)	
Writing Course (3)	
Elective Upperclass Literature Course (3)	
III. Recommended Complimentary Courses	0-21 sem. hrs.
Intermediate Competence in a Foreign Language (0-12)	
English and/or American History (0-6)	
Upperclass Philosophy Course (0-3)	
IV. Free Electives	15-36 sem. hrs.
TOTAL	120 sem. hrs.

BACHELOR OF ARTS – HUMANITIES/ENGLISH
(Suggested Eight-Semester Sequence)**First Semester**

ENGL101 College Writing Skills (3)
MATH104 Finite Mathematics (3)
CSCI104 Essential Computing I (3)
HPE Elective (3)
Core 1 (3)

TOTAL 15 sem. hrs.

Second Semester

ENGL102 Specialized College Writing and Research Skills (3)
Distribution 1 (3)
Core 3 (3)
Core 6 (3)
Core 7 (3)

TOTAL 15 sem. hrs.

Third Semester

Literature Course (3)
American Literature Course (3)
Distribution 1 (3)
Core 2 (3)
Core 4 (3)

TOTAL 15 sem. hrs.

Fourth Semester

Writing Course (3)
Literary Forms Course (3)
Literature Course (3)
Distribution 2 (3)
Distribution 3 (3)

TOTAL 15 sem. hrs.

Fifth Semester

American Literature Course (3)
English Language Course (3)
English Literature Course (3)
Language Elective (3)
Core 5 (3)

TOTAL 15 sem. hrs.

Sixth Semester

Literary Forms Course (3)
English Language Course (3)
English Language Course (3)
Upperclass Lit. Course (3)
Free Elective (3)

TOTAL 15 sem. hrs.

Seventh Semester

Intermediate Competence in a Foreign Language (0-12)
English and/or Am. History (0-6)
Upperclass Philosophy Course (0-3) T

TOTAL 0-15 sem. hrs.

Eighth Semester

Free Electives (15)

TOTAL 15 sem. hrs.

Foreign Languages Department

FACULTY: Janusz Czejdo, Amanda M. Frantz-Mamani, Leo Gruber, Karen Hebert

The department offers the Bachelor of Arts degree with majors in German, Spanish, and the Humanities/Foreign Languages, a degree in which proficiency is sought in two languages. Teacher certification may be pursued in conjunction with the B.A. degree in German and Spanish by satisfying the requirements of the School of Education. Certification in two areas may enhance employment

opportunities. (For further information, refer to Teacher Education section.) Programs are also offered in Foreign Language and Area Studies. (Please refer to the History Department section for further information about this specialization.)

Placement: Students enrolled in Foreign Language courses will be placed by the department according to their background and proficiency in the foreign language.

CAREER OPPORTUNITIES: WHAT YOU CAN DO WITH A MAJOR IN FOREIGN LANGUAGES

There are many career opportunities for a person with a major in foreign language. Although some career areas utilize foreign language skills as a supplement to other areas of knowledge and training, many jobs focus solely on language proficiency with a liberal arts background. Your knowledge of a foreign language and the culture of its people could be the single factor that distinguishes you from other applicants and thus makes you the best person for the job.

Currently, there are career opportunities for foreign language majors in the following types of firms: advertising agencies; airlines; banks; city, county, state government; federal government; Agency for International Development; Central Intelligence Agency; Department of Defense; Department of State; Federal Bureau of Investigation; Immigration and Naturalization Service; Peace Corps; United States Information Agency; film industry; hotels, insurance companies; international service organizations; language institutes; libraries; publishing companies; research and educational institutes; retailers; social service agencies; United Nations; and universities and colleges.

Bachelor of Arts Degree

German

I. General Education Requirements	48 sem. hrs.
II. Major Component	24-30 sem. hrs.
A. Required Courses*	12-18 sem. hrs.
GERM101 First Course German (3)	
GERM102 Second Course German (3)	
GERM201 Third Course German (3)	
GERM202 Fourth Course German (3)	
GERM307 German Conversation/Composition I (3)	
GERM407 Advanced German Conversation/Composition II (3)	
B. Elective Courses	12 sem. hrs.
GERM courses needed to complete this requirement shall be selected through consultation with the academic advisor.	
III. Free Electives	42-48 sem. hrs.
TOTAL	120 sem. hrs.

- * For students starting at the 101 level, credits in II.A. must total 18.
 For students starting at the 102 level, credits in II.A. must total 15.
 For students starting at the 201 level, credits in II.A. must total 12.

Students starting at 202 or above must choose from the 300 or higher-level courses to complete the minimum requirement in II.A. of 12 credits.

BACHELOR OF ARTS – GERMAN (Suggested Eight-Semester Sequence, Dependent on Placement. See Requirements for B.A. in German.)

First Semester

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3)
GERM101	First Course in German (3)
	Core 1 (3)
	Free Elective (3)
TOTAL	15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
GERM102	Second Course in German (3)
CSCI104	Essential Computing I (3)
	HPE Elective (3)
	Core 2 (3)
TOTAL	15 sem. hrs.

Third Semester

GERM201	Third Course in German (3)
	Distribution 1 (3)
	Distribution 2 (3)
	Core 7 (3)
	Core 3 (3)
TOTAL	15 sem. hrs.

Fourth Semester

GERM202	Fourth Course in German (3)
	Core 4 (3)
	Core 5 (3)
	Distribution 1 (3)
	Distribution 3 (3)
TOTAL	15 sem. hrs.

Fifth Semester

GERM307	German Conversation and Composition (3)
	GERM Elective (3)
	Core 6 (3)
	Free Electives (6)
TOTAL	15 sem. hrs.

Sixth Semester

	GERM Elective (3)
	GERM Elective (3)
	Free Electives (9)
TOTAL	15 sem. hrs.

Seventh Semester

	GERM Elective (3)
	Free Elective (3)
	Free Elective (9)
TOTAL	15 sem. hrs.

Eighth Semester

	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (6)
TOTAL	15 sem. hrs.

Bachelor of Arts Degree

Humanities/Foreign Languages

I. General Education Requirements	48 sem. hrs.
II. Required Languages	24-36 sem. hrs.
A. Language I**	18-24 sem. hrs.*
B. Language II***	6-12 sem. hrs.*
III. Free Electives	36-48 sem. hrs.
TOTAL	120 sem. hrs.

- * If the student is exempted from taking 101 and 102, the required total in II.A. will decrease to 18 credits and II.B. will decrease to 6 credits.
 ** Must include a minimum of 12 credits of 300 or higher level courses.
 *** Must include a minimum of 6 credits of 200 or higher level courses.

BACHELOR OF ARTS – HUMANITIES/FOREIGN LANGUAGE (Suggested Eight-Semester Sequence, Dependent on Placement. See Requirements for B.A. in Humanities/Foreign Languages.)

First Semester

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3)
	Language I (3)
	Core 1 (3)
	Core 2 (3)
TOTAL	15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
CSCI104	Essential Computing I (3)
	Language I (3)
	Core 3 (3)
	HPE Elective (3)

TOTAL 15 sem. hrs.

Third Semester

	Language I (3)
	Distribution 1 (3)
	Distribution 2 (3)
	Core 4 (3)
	Core 6 (3)

TOTAL 15 sem. hrs.

Fourth Semester

	Language I (3)
	Core 5 (3)
	Distribution 1 (3)
	Distribution 3 (3)
	Free Elective (3)

TOTAL 15 sem. hrs.

Fifth Semester

	Language I (3)
	Language II (3)
	Core 7 (3)
	Free Electives (6)

TOTAL 15 sem. hrs.

Sixth Semester

	Language I (3)
	Language II (3)
	Free Electives (9)

TOTAL 15 sem. hrs.

Seventh Semester

	Language I (3)
	Language II (3)
	Free Electives (9)

TOTAL 15 sem. hrs.

Eighth Semester

	Language I (3)
	Language II (3)
	Free Electives (9)

TOTAL 15 sem. hrs.

Bachelor of Arts Degree

Spanish

I.	General Education Requirements	48 sem. hrs.
II.	Major Component	24-30 sem. hrs.
A.	Required Courses*	12-18 sem. hrs.
	SPAN101 First Course Spanish (3)	
	SPAN102 Second Course Spanish (3)	
	SPAN201 Third Course Spanish (3)	
	SPAN202 Fourth Course Spanish (3)	
	SPAN307 Spanish Conversation/Composition I (3)	
	SPAN308 Spanish Conversation/Composition II (3)	
B.	Elective Courses	12 sem. hrs.
	SPAN courses needed to complete this requirement shall be selected through consultation with the academic advisor.	
III.	Free Electives	42-48 sem. hrs.
	TOTAL	120 sem. hrs.

* For students starting at the 101 level, credits in II.A. must total 18.
 For students starting at the 102 level, credits in II.A. must total 15.
 For students starting at the 201 level, credits in II.A. must total 12.

Students starting at 202 or above must choose from the 300 or higher-level courses to complete the minimum requirement in II.A. of 12 credits.

BACHELOR OF ARTS – SPANISH

(Suggested Eight-Semester Sequence, Dependent on Placement. See Requirements for B.A. in Spanish.)

First Semester

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3)
SPAN101	First Course in Spanish (3)
	Core 1 (3)
	Core 2 (3)

TOTAL 15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
SPAN102	Second Course in Spanish (3)
CSCI104	Essential Computing I (3)
	Core 3 (3)
	HPE Elective (3)

TOTAL 15 sem. hrs.

Third Semester

SPAN201	Third Course in Spanish (3)
	Distribution 1 (3)
	Distribution 2 (3)
	Core 4 (3)
	Core 5 (3)

TOTAL 15 sem. hrs.

Fourth Semester

SPAN202	Fourth Course in Spanish (3)
	Core 6 (3)
	Distribution 3 (3)
	Distribution 1 (3)
	Free Elective (3)

TOTAL 15 sem. hrs.

Fifth Semester

SPAN307	Spanish Conversation and Composition I (3)
	Spanish Elective (3)
	Core 7 (3)
	Free Electives (6)

TOTAL 15 sem. hrs.

Sixth Semester

SPAN308	Spanish Conversation and Composition II (3)
	Spanish Elective (3)
	Free Electives (9)

TOTAL 15 sem. hrs.

Seventh Semester

	Spanish Elective (3)
	Free Electives (12)

TOTAL 15 sem. hrs.

Eighth Semester

	Spanish Elective (3)
	Free Electives (12)

TOTAL 15 sem. hrs.

Geosciences Department

FACULTY: Richard Deal, Karen Eisenhart, Baher A. Ghosheh, Jeffrey J. Gryta, David Hurd, Tadesse Kidane-Mariam, Henry Lawrence, Wook Lee, Kerry A. Moyer, Laurie A. Parendes, Joseph Reese, Eric Straffin, Dale Tshudy, Brian Zimmerman

The Department of Geosciences offers two major degree programs: Geology and Geography. “Geo science” literally means the scientific study of the *earth* and all of its dynamic processes, and has traditionally been associated with physical earth sciences such as geology, meteorology, and space science. In our

modern world, however, we increasingly recognize that the study of the Earth requires an understanding of human societies and how they interact with the environment across space and through time. Studying how human and physical phenomena are distributed across space and how they interact with one another — that is, how the environment has shaped society, and in turn how society is shaping the environment — requires a geographic approach. Traditional geographic fields of study are cartography, regional studies, environment-society interactions, and urban and regional planning of human communities. By combining a Geology program and a Geography program in a single Geosciences Department, we can address a broad range of student interests. Students from both major programs will be prepared to enter traditional geology or geography careers, but also will be prepared for emerging employment opportunities associated with earth sciences, natural resources, environmental issues, and/or planning careers. Students majoring in Geology or Geography are encouraged to become proficient in computer skills. Knowledge of software applications including those unique to the disciplines is recommended.

The Department of Geosciences plays a prominent role in providing general education courses for students majoring in other curricula and provides coursework necessary to complete degrees in elementary education and secondary education (i.e., earth and space science, social studies, and general science). These programs are administered by the School of Education. Students interested in a career in teaching should refer to the Elementary Education Department or Middle and Secondary Education Department sections of this catalog.

The department also operates the Edinboro University Planetarium for university classes, K-12 school programs, and hosts programs for the community.

Geology Program

Geology is an interdisciplinary science that studies the earth and its structural history, including the evolution of life and the atmosphere. Students interested in the physical earth sciences may pursue a Bachelor of Science degree in Geology, which offers students two options. The Bachelor of Science Degree in Geology permits a student to select a traditional program in Geology or to concentrate his/her studies in Environmental Geology. The traditional undergraduate degree in geology provides a classical, broad-based exposure to geological disciplines and thus, prepares the graduate well for entry into a wide variety of geological careers and for graduate school. Graduates commonly find employment in geologic careers ranging from petroleum exploration to environmental geology (e.g. groundwater concerns) and, with advanced degrees, to academia. The Environmental Geology Concentration is tailored for those who wish to enter the environmental geology field. It prepares the graduate well for entry into a range of geological and environmental careers and for graduate school in these disciplines. Graduates commonly find employment in geologic aspects of groundwater supply, contamination and remediation, as well as soils, slope stability, and other environmental geology concerns.

In addition to the Bachelor of Science degree in Geology, students may elect to pursue a Bachelor of Arts degree in Earth Sciences. The B. A. in Earth Sciences provides students with a broad exposure to the earth sciences, but with fewer related requirements in math and science.

Geography Program

Geography is an interdisciplinary field that takes a spatial approach to studying phenomena. Geographers are interested in how physical or human-related phenomena are distributed across space (mapping), the underlying physical or social causes for the past or current distributions, how phenomena (i.e., resources, cultures, households, energy, ideas, etc.) are transferred from one place to another, and predicting or planning for future distributions of phenomena. Using a spatial point of view, a geographer can focus on any of a wide range of topics that include physical geography, human geography, and human-environment interactions. Because of this, geography pairs very well with many other fields of study from the physical sciences to the social sciences to the humanities to computer sciences. Geography majors are encouraged to work closely with their academic advisor to construct a course of study that is best related to their academic interests and future career aspirations.

Students interested in geographical studies may pursue a Bachelor of Arts degree in Geography, which offers students three options. The first option is to pursue a traditional undergraduate degree in Geography, the second is to pursue a Concentration in Environmental Studies, and the third is to pursue a Concentration in Urban and Regional Planning. All three options require students to complete six required geography courses, which are the foundation

of the geography major. Each option has additional geography requirements that are specific to that concentration. In addition, each provides students with a number of free electives that can be used by students to tailor studies more closely to their interests under the advice of their department advisor. As a consequence, many geography majors will elect to complete one or two minors in a complimentary field.

Bachelor of Arts Degree

Earth Sciences

The Bachelor of Arts in Earth Sciences degree allows the student interested in the earth sciences a great deal of flexibility in designing a more personalized program of study. In addition to preparation for traditional earth science careers, this program can lead to careers in law, business, political science, education, environmental activism, or any field where a liberal arts education and broad familiarity with the earth sciences would be advantageous.

I. General Education Requirements		49 sem. hrs.
II. Earth Science Requirements*		33 sem. hrs.
A. The following are required courses:		15 sem. hrs.
GEOS101	The Dynamic Earth (3)	
GEOS112	Principles of Earth History (3)	
GEOS310	Oceanography (3)	
GEOS320	Meteorology I (3)	
PHYS2	Frontiers of Astronomy (3)	
B. At least 18 additional semester hours must be selected from GEOS courses numbered 300 and above		18 sem. hrs.
III. Required Supporting Courses		11 sem. hrs.
BIOL102	Environmental Biology (3)	
CHEM240	Principles of Chemistry I (4)	
PHYS201	Physics I (4)	
IV. Free Electives		27 sem. hrs.
	TOTAL	120 sem. hrs.

* A grade of "C" or better is required in each course.

Note: At least 48 hrs. must be 300 level or above.

BACHELOR OF ARTS – EARTH SCIENCES (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)	
CSCI104	Essential Computing I (3)	
MATH107	Precalculus Math (4)	
GEOS101	Dynamic Earth (3)	
	HPE Elective (3)	
	TOTAL	16 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
BIOL102	Environmental Biology (3)	
	Core (3)	
	Core (3)	
	TOTAL	12 sem. hrs.

Third Semester

GEOS112	Principles of Earth History (3)	
GEOS310	Oceanography (3)	
	Distribution (3)	
	Core (3)	
	Core (3)	
	TOTAL	15 sem. hrs.

Fourth Semester

GEOS320	Meteorology I (3)	
CHEM240	Principles of Chemistry I (4)	
	Core (3)	
	Core (3)	
	Distribution (3)	
	TOTAL	16 sem. hrs.

Fifth Semester

PHYS201	Physics (4)		
PHYS271	Frontiers of Astronomy (3)		
	Earth Science Elective (3)		
	Distribution (3)		
	Distribution (3)		
		TOTAL	16 sem. hrs.

Sixth Semester

	Earth Science Elective (3)		
	Earth Science Elective (3)		
	Core (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Seventh Semester

	Earth Science Elective (3)		
	Earth Science Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

	Earth Science Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Bachelor of Arts Degree

Geography

The Geosciences Department offers three options for completing a Bachelor of Arts degree in Geography. Students may major in Geography with no declared concentration, or they may concentrate their coursework in either Environmental Studies or Urban & Regional Planning. All students completing a Bachelor of Arts degree in Geography must fulfill the requirements of the General Education Curriculum, and in addition complete six required geography courses that provide a common foundation for the discipline of geography. The foundational courses emphasize six essential elements identified in the National Geography Standards that a geographically-informed person needs to know and understand. The six essential geographic elements are: understanding the world in spatial terms, places and regions, physical systems, human systems, environment and society interactions, and use of geography in a wide range of applications.

General Geography provides the student with a broad understanding of geographical thought and practice. The Geography degree is a liberal arts degree that prepares the student for a wide variety of career opportunities as well as for graduate studies. In addition to six foundational geography courses, a student selects at least 21 additional credit hours of geography courses. The Geography curriculum is further refined in consultation with his/her department advisor by selecting an additional 27 credit hours of free electives from courses offered throughout the university. Geography majors are encouraged to elect a foreign language in fulfillment of related requirements, and are strongly encouraged to concentrate elective courses in an appropriate minor.

Concentration in Environmental Studies is designed to promote competencies required to work with environmentally sensitive issues. Students will be exposed to a natural science background sufficient to make them conversant on the fundamental scientific issues involved in a given controversy. Social science skills in planning and human interaction are also emphasized. Students further refine their course of study in consultation with the department advisor by selecting 20 additional credit hours of free electives. This provides flexibility for students to pursue additional courses in the physical sciences, social sciences, humanities, or computer sciences according to his/her career interests. Students concentrating in environmental studies may find employment at all levels of government (local, state, federal) as well as in the private sector.

Concentration in Urban and Regional Planning prepares students for future employment in the government sectors, the private sector, and by non-government organizations (NGOs). Urban and regional planners develop long- and short-term plans for the use of land and the growth and revitalization of urban and rural communities. Students must become proficient in computer skills and will be introduced to a number of discipline-specific software applications. The curriculum requires students to complete courses in economics and government, since most planning jobs are associated with some level of government. The Planning concentration requires an additional 27 geography credit hours beyond the six foundational courses, and 15 credit hours of free electives from courses offered throughout the university that are selected in consultation with the department advisor. The U.S. Department of Labor has projected faster than average growth for planning fields through 2018 (Occupational Outlook Handbook, 2010-1011 Ed., *Urban and Regional Planners*). Some of these jobs require applicants to obtain graduate degrees, and the Concentration in Urban and Regional Planning would prepare students to pursue graduate-level work as well as for entry-level positions in the planning field.

- | | | |
|------|---|--------------|
| I. | General Education Requirements | 48 sem. hrs. |
| II. | Required Geography Courses | 18 sem. hrs. |
| | GEOG101 World Geography (3) or GEOG 130 Cultural Geography (3) | |
| | GEOG305 Basic Cartography (3) | |
| | GEOG320 Physical Geography (3) | |
| | GEOG411 Spatial Analysis (3) | |
| | GEOG413 Geog. Information Systems (3) | |
| | GEOG415 Seminar in Geography (3) | |
| III. | General Geography (no concentration) | 54 sem. hrs. |
| | GEOG260 Geography of US and Canada (3) | |
| | <i>Select ONE of the following physical geography courses:</i> | |
| | GEOG222 Climatology (3) | |
| | GEOG425 Geography of Water Res. (3) | |
| | GEOG515 Biogeography (3) | |
| | GEOG545 Environ. Planning (3) | |
| | Or other approved physical geography course (3) | |
| | <i>Select ONE of the following human geography courses:</i> | |
| | GEOG300 Princ Urb/Reg Planning (3) | |
| | GEOG332 Political Geography (3) | |
| | GEOG335 Urban Geography (3) | |
| | GEOG340 Economic Geography (3) | |
| | GEOG350 Population Geography (3) | |
| | Or other approved human geography course (3) | |
| | <i>Select ONE of the following issue-oriented geography courses:</i> | |
| | GEOG145 Environmental Issues (3) | |
| | GEOG230 Societal Issues (3) | |
| | GEOG245 Conservation of Nat Res. (3) | |
| | GEOG333 Geog. of World Affairs (3) | |
| | Or other approved issues-oriented geography course (3) | |
| | <i>Select ONE of the following regional geography courses:</i> | |
| | GEOG365 Geog. of Latin America (3) | |
| | GEOG370 Geog. of Europe (3) | |
| | GEOG375 Geog. of Middle East (3) | |
| | GEOG380 Geog. of Africa (3) | |
| | GEOG390 Geog. of Asia (3) | |
| | Or other approved regional geography course (3) | |
| | <i>Select six additional hours of (300+) geography coursework</i> | |
| | <i>Select six hours from the following related requirements:</i> | |
| | ENGL404 Technical Writing (3) | |
| | A foreign language course (except language and culture courses, e.g. SPAN100) (3) | |
| | An approved 300+ course from a related discipline such as economics, political science, sociology, anthropology, geology, biology or other approved discipline. (3) | |
| | Select 27hrs of Free Electives | |
| IV. | Environmental Studies Concentration | 54 sem. hrs. |
| | GEOG145 Environmental Issues (3) | |
| | GEOG245 Conservation of Nat. Res. (3) | |
| | Select TWO of the following courses: | |
| | GEOG425 Geography of Water Res. (3) | |
| | GEOG515 Biogeography (3) | |

GEOG525 Forest Geog. & Con. (3)	
GEOG545 Environ. Planning (3)	
Or other approved environmental geography course (3)	
Select three additional hours of (200+) geography coursework	
BIOL102 Environmental Biology (3)	
CHEM140 General Chemistry (3)	
ENGL404 Technical Writing (3)	
GEOS101 Dynamic Earth (3)	
GEOS320 Meteorology I (3)	
Select ONE of the following:	
GEOS375 Environmental Geology (3)	
Other GEOS course numbered 311 or higher (3)	
Select 20hrs of Free Electives	
V. Urban and Regional Planning Concentration	54 sem. hrs.
GEOG 245 Cons. Natural Res. (3)	
GEOG 300 Princ. Urban/Reg. Plan. (3)	
GEOG 335 Urban Geography (3)	
GEOG 545 Environ. Planning (3)	
Select ONE of the following human geography courses:	
GEOG 332 Political Geography (3)	
GEOG 340 Economic Geography (3)	
GEOG 350 Population Geography (3)	
Or other approved human geography course (3)	
Select TWO of the following techniques courses:	
GEOG 414 Remote Sensing (3)	
GEOG 420 GIS Applic. Bus/Plan. (3)	
GEOG 513 GIS II: Modeling (3)	
Or other approved techniques course (3)	
Select 6 additional hours of approved (300+) geography coursework	
ECON 220 Microeconomics (3)	
ENGL 404 Technical Writing (3)	
POLI 315 Amer. State & Local Govt. (3)	
An approved 300+ course from a related discipline such as economics, political science, sociology, anthropology, or other approved discipline. (3)	
Select 15hrs of free electives	
TOTAL	(120 SH)

A grade of C or better is required for all courses in the major (excluding free electives) that possess a GEOG prefix.

A minimum of 40%(48 hours) of entire program must be upper level courses (300 level and above).

BACHELOR OF ARTS – GEOGRAPHY (Suggested Eight Semester Sequence)

First Semester	
GEOG 101	World Geography or GEOG 130 Cultural Geography (3)
ENGL 101	College Writing Skills (3) Core (3) Core (3) HPE Elective (3)
TOTAL	15 sem. hrs.
Second Semester	
ENGL 102	Specialized College Writing and Research Skills (3)
GEOG 260	Geog. of U.S. and Canada (3)
MATH 104	Finite Math (3) Core (3) Core (3)
TOTAL	15 sem. hrs.
Third Semester	
GEOG 305	Basic Cartography (3)
GEOG 320	Physical Geography (3) Select from ENGL 404, foreign language, or approved course from related discipline (3) Core (3) Core (3)
TOTAL	15 sem. hrs.

Fourth Semester	
GEOG 413	Geographic Information Systems (3) Physical Geography Course (3) Free Elective (3) Core (3) Distribution (3)
TOTAL	15 sem. hrs.
Fifth Semester	
GEOG 411	Spatial Analysis (3) Select from ENGL 404, foreign language, or approved course from related discipline (3) Issue-Oriented Geography Course (3) Distribution (3) Free Elective (3)
TOTAL	15 sem. hrs.
Sixth Semester	
	Human Geography Course (3) Regional Geography Course (3) Distribution (3) Free Elective (3) Free Elective (3)
TOTAL	15 sem. hrs.
Seventh Semester	
	GEOG (300+) Elective (3) Distribution (3) Free Elective (3) Free Elective (3) Free Elective (3)
TOTAL	15 sem. hrs.
Eighth Semester	
GEOG 415 GEOG (300+)	Seminar in Geography (3) Elective (3) Free Elective (3) Free Elective (3) Free Elective (3)
TOTAL	15 sem. hrs.

BACHELOR OF ARTS – GEOGRAPHY (ENVIRONMENTAL STUDIES CONCENTRATION) (Suggested Eight Semester Sequence)

First Semester	
GEOG 101	World Geography or GEOG 130 Cultural Geography (3)
GEOG 145	Environmental Issues (3)
ENGL 101	College Writing Skills (3) Core (3) HPE Elective (3)
TOTAL	15 sem. hrs.
Second Semester	
ENGL 102	Specialized College Writing and Research Skills (3)
GEOG 245	Conservation of Natural Resources (3)
MATH 104	Finite Math (3) Core (3) Core (3)
TOTAL	15 sem. hrs.
Third Semester	
GEOS 101	Dynamic Earth (3)
GEOG 305	Basic Cartography (3)
BIOL 102	Environmental Biology (3) Core (3) Core (3)
TOTAL	15 sem. hrs.

Fourth Semester

GEOG 320	Physical Geography (3)		
GEOG 413	Geographic Information Systems (3)		
CHEM 140	General Chemistry (4)		
	Core (3)		
	Core (3)		
		TOTAL	16 sem. hrs.

Fifth Semester

GEOG 411	Spatial Analysis (3)		
GEOG 320	Meteorology I (3)		
ENGL 404	Technical Writing (3)		
	Distribution (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Sixth Semester

	Select from either GEOG 425, 515, 525, or 545 (3)		
	GEOG (200+) Elective (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Seventh Semester

GEOG 375	Environmental Geology or other GEOS (311+) course (3)		
	Select from either GEOG 425, 515, 525, or 545 (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

GEOG 415	Seminar in Geography (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (2)		
		TOTAL	14 sem. hrs.

BACHELOR OF ARTS – GEOGRAPHY (URBAN AND REGIONAL PLANNING CONCENTRATION)
(Suggested Eight Semester Sequence)

First Semester

GEOG 101	World Geography or GEOG 130 Cultural Geography (3)		
ENGL 101	College Writing Skills (3)		
	Core (3)		
	Core (3)		
	HPE Elective (3)		
		TOTAL	15 sem. hrs.

Second Semester

GEOG 245	Conservation of Natural Resources (3)		
ENGL 102	College Writing and Research Skills (3)		
POLI 201	American Govt. (3)		
MATH 105	College Algebra (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Third Semester

GEOG 305	Basic Cartography (3)		
POLI 315	American State and Local Govt. (3)		
	Human Geography Course (3)		
	Core (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fourth Semester

GEOG 320	Physical Geography (3)		
GEOG 413	Geographic Information Systems (3)		
ECON 220	Microeconomics (3)		
	Free Elective (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fifth Semester

GEOG 300	Princ. Urban / Reg. Planning (3)		
GEOG 411	Spatial Analysis (3)		
ENGL 404	Technical Writing (3)		
	GEOG (300+) Elective (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Sixth Semester

GEOG 335	Urban Geography (3)		
	Geog Techniques Course (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Seventh Semester

GEOG 545	Environmental Planning(3)		
	Geog Techniques Course (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

GEOG 415	Seminar in Geography (3)		
	GEOG (300+) Elective (3)		
	An approved (300+) course from a related discipline (3)		
	Distribution (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.

I.	General Education Requirements	49 sem. hrs.
II.	Geology Requirements*	40 sem. hrs.
III.	Required Foundation Courses	32 sem. hrs**
	GEOG 101	Dynamic Earth (3)
	GEOG 112	Prin. of Earth History (3)
	GEOG 525	Field Studies (3)
	GEOG 541	Geomorphology (3)
	BIOL 102	Environmental Biology **
	CHEM 240	Prin. of Chemistry I (4)
	PHYS 201	Physics I (4)

MATH 211	Ana. Geom. & Calc. I (4)		
<i>Choose two of the following:</i>			
CHEM 241	Prin. of Chemistry II (4)		
PHYS 201	Physics II (4)		
MATH 212	Ana. Geom. & Calc. II (4)		
IV.	Geology (no concentration)	39 sem. hrs*	
GEOS 311	Mineralogy (4)		
GEOS 513	Petrology (4)		
GEOS 521	trat. and Sediment (4)		
GEOS 523	Invert. Paleontology (4)		
GEOS 531	Structural Geology (4)		
GEOS 581	Geology Field Camp ***(4)		
Select 9 hrs of GEOS courses numbered 311 or above			
Select 6 hrs of free electives			
V.	Environmental Geology Concentration	39 sem hrs*	
GEOS 375	Environmental Geology (3)		
GEOS 505	Soil Geomorphology (3)		
GEOS 545	Hydrogeology (3)		
GEOG 145	Environmental Issues **		
GEOG 245	Con. of Nat. Res. **		
GEOG 305	Cartography (3)		
GEOG 413	Geog. Info. Systems (3)		
GEOG 545	Environmental Planning (3)		
Select 12 hrs of GEOS courses numbered 311 or above			
Select 9 hrs of free electives:			
Total		120 SH	

* A grade of C or better is required for all GEOS courses (excluding free electives).

** Courses that will fulfill general education requirements.

*** GEOS 581 is not offered at Edinboro University and must be taken at another institution approved by the Geosciences Department and transferred back to fulfill this requirement.

A minimum of 40%(48 hours) of entire program must be upper level courses (300 level and above).

BACHELOR OF SCIENCE – GEOLOGY (Suggested Eight Semester Sequence)

First Semester

GEOS 101	Dynamic Earth (3)
ENGL 101	College Writing Skills (3)
	Core (3)
	Core (3)
	HPE Elective (3)

TOTAL 15 sem. hrs.

Second Semester

MATH 107	Precalculus (4)
ENGL 102	Specialized College Writing and Research Skills (3)
GEOS 112	Principles of Earth History (3)
CSCI 104	Essential Computing I (3)
	Core (3)

TOTAL 16 sem. hrs.

Third Semester

BIOL 102	Environmental Biology (3)
GEOS 311	Mineralogy (4)
	Core (3)
	Core (3)

TOTAL 13 sem. hrs.

Fourth Semester

MATH 211	Anal. Geom. and Calculus I (4)
GEOS 513	Petrology (4)
GEOS 541	Geomorphology (3)
	Core (3)

TOTAL 14 sem. hrs.

Fifth Semester

CHEM 240	Principles of Chemistry I or PHYS 201 Physics I (4)
GEOS 525	Field Studies (3)
GEOS 531	Structural Geology (4)
	Distribution (3)

TOTAL 14 sem. hrs.

Sixth Semester

PHYS 201	Physics I or CHEM 240 Principles of Chemistry I (4)
GEOS 521	Strat. and Sediment. (4)
GEOS 523	Invert. Paleontology (4)
	Distribution (3)

TOTAL 15 sem. hrs.

Seventh Semester

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)	
GEOS (311+) Elective (3)	
GEOS (311+) Elective (3)	
Distribution (3)	
Free Elective (3)	

TOTAL 16 sem. hrs.

Eighth Semester

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)	
GEOS (311+) Elective (3)	
Distribution (3)	
Free Elective (3)	

TOTAL 13 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 CONCENTRATION) (Suggested Eight Semester Sequence)

First Semester

GEOS 101	Dynamic Earth (3)
ENGL 101	College Writing Skills (3)
GEOG 245	Conservation of Natural Resources (3)
	Core (3)
	HPE Elective (3)

TOTAL 15 sem. hrs.

Second Semester

MATH 107	Precalculus (4)
ENGL 102	Specialized College Writing and Research Skills (3)
GEOS 112	Principles of Earth History (3)
	Core (3)

TOTAL 13 sem. hrs.

Third Semester

BIOL 102	Environmental Biology (3)
GEOG 305	Cartography (3)
GEOG 145	Environmental Issues (3)
GEOS 375	Environmental Geology (3)
	Core (3)

TOTAL 15 sem. hrs.

Fourth Semester

MATH 211	Anal. Geom. and Calculus I (4)
GEOG 413	Geographic Information Systems (3)
GEOS 541	Geomorphology (3)
	Core (3)
	Distribution (3)

TOTAL 16 sem. hrs.

Fifth Semester

CHEM 240	Principles of Chemistry I or PHYS 201 Physics I (4)	
GEOS 525	Field Studies (3)	
	GEOS (311+) Elective (3)	
	Distribution (3)	
	Free Elective (3)	
	TOTAL	16 sem. hrs.

Sixth Semester

PHYS 201	Physics I or CHEM 240 Principles of Chemistry I (4)	
GEOS 505	Soil Geomorphology (3)	
GEOS 545	Hydrogeology (3)	
	Free Elective (3)	
	TOTAL	13 sem. hrs.

Seventh Semester

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)		
GEOS 545	Environmental Planning (3)	
	GEOS (311+) Elective (3)	
	Distribution (3)	
	Free Elective (3)	
	TOTAL	16 sem. hrs.

Eighth Semester

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)		
	GEOS (311+) Elective (3)	
	GEOS (311+) Elective (3)	
	Distribution (3)	
	Free Elective (3)	
	TOTAL	16 sem. hrs.

History and Anthropology Department

FACULTY: Lenore Barbian, Ihor Bemko, Xin-Zhu J. Chen, Martha Donkor, Dennis Hickey, Jerra Jenrette, Joseph W. Laythe, Nazir A. Mughal, Steven R. Nachman, Andre Smith, Ronald L. Spiller, Renata B. Wolyneć

Mission Statement

The History and Anthropology Department seeks to promote students' knowledge, curiosity, and empathetic understanding about peoples and cultures across time and space. The two disciplines housed in the department together encompass the study of humanity: its biological and cultural basis, its divergent and changing expressions from prehistoric times to the present and its possibilities for the future. These disciplines guide students in a critical examination of the events that shaped the lives of earlier generations and created the world in which they live. Departmental courses teach students to think analytically, to apply scientific methodology, articulate and to communicate their thoughts, to use knowledge in ways that empower and improve the circumstances of their lives, to appreciate cultural and human diversity and recognize the common humanity on which such diversity is based, and ultimately, to have a heightened sense of who they are and who they can be. While the department does prepare a number of its students for advanced degree programs and academic careers, its greater mission is to prepare them for any career or life goal that requires responsible citizenship and critical thinking as a basis for effective action.

The Department of History and Anthropology offers four undergraduate degree programs including the BA History, BA Anthropology, BA Social Science and the BA Women's Studies. It also includes minors in Africana Studies, Anthropology, Archaeology, History, Latin American Studies, and Women's Studies.

"The Classroom Without Walls"

The Department of History and Anthropology offers students many unique and innovative ways to learn about the past. From our traditional courses inside the classrooms of Hendricks Hall, to semester class trips and club trips, we also offer annual Summer Road Courses to sites across the country, East to West, North to South. These challenging and invigorating courses have become the trademark of the Department and give Edinboro University students opportunities to expand their horizons beyond the four walls of our campus classrooms. Whether it is traveling south to study the Civil Rights Movement, the Civil War at Gettysburg, Antietam, or Shiloh, women's history in Seneca Falls, Boston, or

Washington, or spending four weeks following the Oregon Trail, Lewis and Clark Trail, or through the broad expanses of the Southwest, or abroad in Mexico, the Department is committed to teaching and exposing students to "living history."

BA HISTORY

The study of history provides students with an understanding of the human condition of the present and suggestions on how individuals can fulfill themselves in today's complex world.

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.

Students in history are provided with the analytical tools most important to career advancement, the abilities to read and write at a high level, to organize their thoughts and actions, and the ability to see themselves and their situation in perspective. In a world in which communication skills, the need to "see the big picture," and sensitivity to cultural differences are increasingly important, training in history provides students with the requisite tools.

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, the major offers a track in Public and Applied History. If one wants to go on to Seminary, history is the logical major. History combined with some training in another area can also open up some interesting possibilities, for instance, business and economics — business and industry recruit Liberal Arts graduates for a variety of positions that do not require extended training in business. Then there is the biggest employer of all, the government — federal, state and municipal. There are many positions at all levels, which require no particular undergraduate specialty.

"The study of history is more than mere memorization of dates! It is about people and their social, economic, political and cultural experiences. The study of history teaches us to learn from the past, improve the present, and prepare for the future. Students will find that historical study gives them the appropriate skills and broad base of knowledge to prepare for jobs in a variety of professions. Students of history learn to organize, analyze, and communicate effectively. They come to realize the complexity which characterized the past is the same in the present. To not know one's history is to have "historical amnesia." Student and Learn History — Prepare For Tomorrow!

Students in the BA History may choose to take a broad range of courses in the History Content area OR they may choose to concentrate in specific areas of History. Areas of concentration may include the following thought students are not limited to these:

- Military History
- Women's History
- Middle East
- Asia
- Africa
- Latin America
- Europe
- Public History/Applied History
- Violence and Power
- Diplomatic History
- Cultural and Intellectual History
- Colonial and Modern U.S.
- Nazi Germany and the Holocaust

BA WOMEN'S STUDIES

The Department of History and Anthropology offers a major in the discipline of Women's Studies (WS) with areas of emphasis on the humanities, history, human development, and communication. The major is an interdisciplinary effort among the departments of Communication and Media Studies, History,

Psychology, English, Philosophy, Art, Foreign Languages, Biology and Health Services, Sociology, and Social Work, and is designed to enhance the women's studies minor. The major will better prepare graduates to gain employment in areas focused on the advancement of women and/or to continue their education in women's issues in graduate school, and will be the only such program in the State System of Higher Education and in northwestern Pennsylvania.

BA ANTHROPOLOGY

WHY ANTHROPOLOGY?

Of all the academic disciplines that study people and their activities, anthropology is the only one that studies people in all their aspects: physical, social, and cultural. Anthropologists ask the question: What does it mean to be human? They examine human biology and behavior in natural settings across both time and space. They trace human physical and cultural evolution from primate beginnings to the present. They explore the diversity of modern biological and cultural adaptations in order to understand the ways in which different peoples respond to their environment as well as to uncover basic similarities of all humankind.

Anthropologists apply their knowledge in order to improve people's lives. With such a broad outlook on humanity, the student may pursue many different career directions with a Bachelor of Arts in Anthropology. Anthropologists work in many areas including education, museums, government, private sector, business, and social services.

THE BACHELOR OF ARTS IN ANTHROPOLOGY

The Bachelor of Arts in Anthropology can be completed by taking 33 credits, 30 of which are in anthropology (in addition to university-wide requirements). Required core courses include Introduction to Anthropology, Introduction to Archaeology, Introduction to Physical Anthropology, Cultures of the World, Anthropological Theory, and Elements of Statistics. Forty-eight credits in elective courses are also available.

Anthropology students can tailor their individual programs to include a variety of other interests including art, law, sociology, geography, history, music, biology, psychology, education, language, economics, to name only a partial list. Consequently, anthropology students often achieve one or two minors in other areas of interest which complement their specific interests in anthropology. Independent study and internship experiences are encouraged.

BA SOCIAL SCIENCE

The BA Social Science is housed in the Department and is an interdisciplinary program that incorporates courses from Anthropology, Economics, Geography, Political Science, Psychology, Sociology, and History. Students who love Social Science but are not sure about which area to focus in are ideal for this interdisciplinary program.

CAREER OPPORTUNITIES

Many employers in the business world — banks, insurance companies and industries — seek college graduates with a Liberal Arts background. If you desire this type of career, a B.A. degree in History, Anthropology, Women's Studies or Social Sciences provides flexibility.

Bachelor of Arts Degree

History

I. General Education Requirements	48 sem. hrs.
A. Research Methodology	3 sem. hrs.
HIST100 Study of History (3)	
B. Foundations*	15 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)	
HIST300 Introduction to Applied Historical Research (3)	
* Courses taken under General Education Core B2 and B3 will not count in this total.	
C. Content	30 sem. hrs.
Students select any 10 history courses (HIST301 plus)	
D. Electives in History **	9 sem. hrs.
II. Foreign Languages	6 sem. hrs.
III. Free Electives**	18 sem. hrs.
A minimum of 15 hours of courses in the free electives and/or distribution must be 300 level and above.	

** Internships are to be counted partially within the "Electives in History" and partially within the category of "Free Electives."

TOTAL 120 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 and Anthropology Department.

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

First Semester

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3)
HIST100	Study of History (3)
HIST101	World Civilizations I (3) and/or
HIST102	World Civilizations II (3) and/or
HIST103	20th Century World (3) and/or
HIST261	History of U.S. I (3) and/or
HIST262	History of U.S. II(3)
	HPE Elective (3)

TOTAL 15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
CSCI104	Essential Computing I (3)
HIST101	World Civilizations I (3) or
HIST102	World Civilizations II (3) or
HIST103	20th Century World (3) or
HIST261	History of U.S. I (3) or
HIST262	History of U.S. II(3)
	Core (3)
	Core (3)

TOTAL 15 sem. hrs.

Third Semester

	Asia and the Middle East Elective (3)
	HIST400 Methods of Historical Research (3)
	Distribution (3)
	Core (3)
	Core (3)

TOTAL 15 sem. hrs.

Fourth Semester

	Gender, Race, Ethnicity Elective (3)
	History Elective (3)
	Core (3)
	Core (3)
	Distribution (3)

TOTAL 15 sem. hrs.

Fifth Semester

	The Americas: U.S. and Latin America Elective (3)
	Elective (3)
	Core (3)
	Distribution (3)
	Distribution (3)

TOTAL 15 sem. hrs.

Sixth Semester

Gender, Race, Ethnicity Elective (3)		
Africa and Europe Elective (3)		
History Elective (3)		
Free Elective (3)		
Free Elective (3)		
TOTAL	15 sem. hrs.	

Seventh Semester

Gender, Race, Ethnicity Elective (3)		
History Elective (3)		
Free Elective (3)		
Free Elective (3)		
Free Elective (3)		
TOTAL	15 sem. hrs.	

Eighth Semester

Public and Applied History/Research Methodology Elective (3)		
Free Elective (3)		
Free Elective (3)		
Free Elective (3)		
Free Elective (3)		
TOTAL	15 sem. hrs.	

Bachelor of Arts Degree**Anthropology**

The Bachelor of Arts degree in Anthropology is structured to give the student a background in theory, methodology and program content. In addition to preparing the student for possible graduate education the general goal of the program is to provide the student with the basic anthropological skills of thinking, learning, and evaluating so that he/she may assume a variety of professional positions and become a contributing member of society.

Majors in the program have had considerable success in being admitted to graduate schools. Recent graduates have been admitted to the University of Chicago, Northwestern, Ohio State, Penn State, the University of Pittsburgh, and Case-Western Reserve University.

I. General Education Requirements	48 sem. hrs.	
II. Required Anthropology Courses	15 sem. hrs.	
ANTH180 Introduction to Anthropology (3)		
ANTH371 Introduction to Archaeology (3)		
ANTH372 World Cultures (3)		
ANTH381 Anthropological Theory (3)		
ANTH385 Introduction to Physical Anthropology (3)		
III. Anthropology Electives	18 sem. hrs.	
Electives currently available:		
ANTH275 Introduction to Cultural Anthropology (3)		
ANTH315 Ritual, Myth and Magic (3)		
ANTH353 Applied Anthropology (3)		
ANTH364 Culture, Illness and Curing (3)		
ANTH373 Archaeological Field Studies (3-12)		
ANTH374 Indians of North America (3)		
ANTH378 Native America Before Columbus (3)		
ANTH379 From Early Man to Early Civilizations in the Old World (3)		
ANTH389 Appalachian Culture (3)		
ANTH397 Special Topics in Anthropology (1-3)		
ANTH490 Independent Study (2-5)		
ANTH495 Internship in Anthropology (3-12)		
ANTH500 Basic Archaeology for Teachers (3)		
ANTH501 Anthropology of Aging (3)		
ANTH420 The Archaeology of the British Isles (3)		
IV. Required Supporting Course	3 sem. hrs.	
MATH260 Elements of Statistics (3)		
V. Open Electives	36 sem. hrs.	
TOTAL	120 sem. hrs.	

Anthropology majors are encouraged to work closely with his/her advisor to construct a sound academic program which best relates to his/her goals and interests. Majors are strongly encouraged to complete an internship program

during his/her senior year. Internship sites are arranged by the student and his/her advisor. Further, students are encouraged to participate in the program's Archaeology Field School. When available, overseas study is encouraged.

The organizational and analytical skills learned by Anthropology majors have led them to professional employment in a wide array of professional positions.

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

ENGL101	College Writing Skills (3)
MATH104	Finite Math (3)
ANTH180	Intro to Anthropology (3)
	Core (3)
	Core (3)

TOTAL 15 sem. hrs.**Second Semester**

CSCI104	Essential Computing I (3)
ENGL102	Specialized College Writing and Research Skills (3)
ANTH371	Introduction to Archeology (3)
	Core (3)
	Core (3)

TOTAL 15 sem. hrs.**Third Semester**

ANTH372	Cultures of the World (3)
MATH260	Elements of Statistics (3)
	HPE Elective (3)
	Core (3)
	Core (3)

TOTAL 15 sem. hrs.**Fourth Semester**

ANTH381	Anthropology Theory (3)
ANTH385	Introduction to Physical Anthropology (3)
	Core (3)
	Distribution (3)
	Distribution (3)

TOTAL 15 sem. hrs.**Fifth Semester**

Anthropology Elective (3)*
Anthropology Elective (3)*
Free Elective (3)
Distribution (3)
Distribution (3)

TOTAL 15 sem. hrs.**Sixth Semester**

Anthropology Elective (3)*
Anthropology Elective (3)*
Free Elective (3)
Free Elective (3)
Free Elective (3)

TOTAL 15 sem. hrs.**Seventh Semester**

Anthropology Elective (3)*
Free Elective (3)
Free Elective (3)
Free Elective (3)
Free Elective (3)

TOTAL 15 sem. hrs.**Eighth Semester**

Anthropology Elective (3)*
Free Elective (3)
Free Elective (3)
Free Elective (3)
Free Elective (3)

TOTAL 15 sem. hrs.

* Choose six from the following electives: ANTH275, ANTH315, ANTH353, ANTH364, ANTH373, ANTH374, ANTH378, ANTH379, ANTH389, ANTH397, ANTH490, ANTH495, ANTH500, ANTH501, or ANTH502.

Bachelor of Arts

Women's Studies

Women's Studies is an interdisciplinary field, encouraging both a specialized and integrative approach to subject areas in the social sciences and humanities. It provides students with a conceptual framework for examining the ideas, ideals, and actions of women, both in the United States and throughout the world. Courses in the major are selected from existing university offerings in several disciplines, using existing knowledge and practice to create a coherent and focused interdisciplinary alternative. A student who majors in women's studies will develop a deep understanding of women's lives, their contributions, and the obstacles women confront.

CURRICULUM OVERVIEW

Students majoring in Women's Studies take three required courses: WMST204 Introduction to Women's Studies, SOC430 Feminist Qualitative Research Methods, and WMST599 Seminar in Women's Studies. The introductory course exposes students to an overview of the discipline and introduces them to the complexity of interdisciplinary study. Students then focus on the Women's Studies content by taking 33 semester hours, 6 semester hours in related electives, and 21 hours of free electives. Women's Studies majors also take a required internship or field experience ranging from 3-12 semester hours.

The major is designed to give students some flexibility in choosing the Women's Studies content as they select from courses in Art History, Communications, English, History, Music, and Sociology. The courses in the Women's Studies content are specifically designed for the program. The courses cover theories of gender from diverse perspectives, but are linked around the clear disciplinary questions that provide the framework for the major. Students who have completed the Women's Studies degree will have moved well beyond the basic levels of understanding feminist and gender research; they will have advanced greatly as critical thinkers and knowledgeable citizens.

The major culminates with the Seminar in Women's Studies, during which the students will reaffirm the coalition begun in the introductory course and the research methods course. They will refine their ability to apply techniques of interdisciplinary study to the field of Women's Studies.

I. General Education	48 sem. hrs.
II. in Women's Studies	51 sem. hrs.
A. Required Women's Studies Courses	12 sem. hrs.
WMST204 Introduction to Women's Studies	
SOC430 Qualitative Research Method	
<i>This course must be taken prior to WMST599</i>	
SOWK115 Human Diversity	
WMST599 Seminar in Women's Studies**	

**Advanced undergraduate course to be taken junior or senior year.

B. Women's Studies Content	33 sem. hrs.
Students should choose 11 courses from the list of Women's Studies courses below.	
ARHI541 History of Women in Art (3)	
COMM325 Interpersonal Communication (3)*	
COMM520 Intro to Gender and Comm (3)	
ENGL213 Language of the Goddess (3)	
ENGL311 Literature by Women (3)	
ENGL365 Images of Women in Literature (3)	
ENGL420 Feminist Literary Criticism (3)	
HIST313 History of Witchcraft (3)	
HIST314 History of Women in Europe (3)	
HIST315 History of Women in the U.S. (3)	
HIST316 History of Women in Global Societies (3)	
HIST415 History of African-American Women (3)	
HIST515 History of Feminism in Action (3)	
HIST520 History of Women and War: 20th Cent. (3)	
MUSC247 Music, Gender, and Identity (3)	
SOC340 Soc. of Marriage and the Family (3)**	
WMST360 Philosophy and Feminism (3)	
* Prerequisite: COMM107	
** Prerequisite: SOC100 (or permission of instructor)	
C. Internship/Field Experience	(3-12)

Internship or field experience* (3-12 SH) (WMST495)

* Must be approved by the advisor and the chairperson of the History and Anthropology Department. Students may register for up to 12 credits of internship; 9 of those hours may count in the Free Electives category.

D. Women's Studies Electives	6 sem. hrs.
Courses to be taken from the following	
BIOL301* Human Biology	
BIOL304** Biology of Aging	
BIOL306*** Intro to Human Genetics	
COMM220 Intercultural Communication	
HPE112 Women's Wellness/Wgt Training	
NUHL100 Contemporary Women's Health	
PHIL364 Sexual Love and West. Morality	
PSYC305**** Psychology of Human Sexuality	
SOC300***** Victimology	
SOC364***** Race and Ethnic Relations	
SOWK380 Child Welfare	
SPAN353 Modern Latin American Lit Tran.	
* Prerequisite: MATH104 or Higher	
** Prerequisite: BIOL301, 316, or 103	
*** Prerequisite: BIOL301	
**** Prerequisite: PSYC101	
***** Prerequisite: SOC100	
III. Free Electives	18 sem. hrs.

FOREIGN LANGUAGE AND AREA STUDY SPECIALIZATION

Students majoring in the social sciences or in foreign languages may, with the consent of their major area department chairperson, pursue Foreign Language and Area Study Specialization in one or more of the world's major countries or culture areas.

Specializations now available at the University are African Studies (French as the language requirements); Latin American Studies (Spanish); Western Europe Studies (French, Spanish or German); Russia Studies (Russian); Canadian Studies (French) and Middle East Studies (French).

Students pursuing this program will undertake an independent study course in their major discipline and will be required to pass an oral comprehensive examination administered by interdisciplinary Foreign Language and Area Study faculty committees.

The requirements for a specialization in any of the Foreign Language and Area study fields will include a minimum of 30 hours of course work in at least four of the participating departments. The language requirements can be satisfied by the study of 12 hours of the area language or by demonstrating, by examination, intermediate competency in the spoken and written language.

Interested students should discuss this specialization with their major area department chairpersons as soon as possible after matriculation at the University.

The following are included as examples of approved specializations:

LATIN AMERICA (Spanish)

POLI240 Introduction to Comparative Government (3)	
POLI341 Government and Politics of Latin America (3)	
GEOG365 Geography of Latin America (3)	
HIST223 History of Latin America I (3)	
HIST224 History of Latin America II (3)	
SPAN Spanish (*12)	
Independent Study in the major discipline (3)	

RUSSIAN STUDIES

POLI240 Introduction to Comparative Government (3)	
POLI342 Government and Politics of the Soviet Union (3)	
GEOG370 Geography of Europe (3)	
HIST353 History of Russia to 1825 (3)	
HIST354 History of Russia Since 1825 (3)	
RUSS Russian (**12)	
Independent Study in the major discipline	

* Or demonstration of intermediate competency in Spanish.

** Or demonstration of intermediate competency in Russian.

Mathematics and Computer Science Department

FACULTY: Daniel M. Bennett, James Henson, Patricia A. Hillman, John Hoggard, Pamela Ruth Lasher, Frank J. Marzano, Timothy S. Meyer, Joseph M. Molnar, John Onderko, Douglas Puharic, Anne K. Quinn, Corinne Schaeffer, Stanley Schuyler, Emily Sprague, Marc A. Sylvester, David Tucker, Frederick J. Weening, Richard K. White, Ellen Marie Zimmer

The Department of Mathematics and Computer Science offers programs that lead to the following degrees: Bachelor of Arts in Mathematics, Bachelor of Arts in Mathematics with 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, an applied computer technology minor and an applied mathematics minor. These minors can be coordinated with virtually any academic discipline.

The Department of Mathematics and Computer Science develops the capacity of the student to analyze a variety of life situations modeling the problem environment with logical and numerical tools. As such, a strong foundation in mathematics and computer science becomes the basis for clear reasoning and problem solving in many other areas. Professionals in virtually all disciplines recognize the importance of mastering computer skills, developing problem-solving competence and studying mathematics. When students develop their abilities in mathematics and computer science they move from using the logical models proposed by others, to being able to create new approaches for the problems and technologies of tomorrow.

Course offerings include courses in algebra, analysis, statistics, geometry, programming languages, software design, database design and management, data structures, networking, artificial intelligence, operating systems, and computer architecture. The department also provides a variety of introductory courses from which students in any curriculum may select according to their needs and interests.

Opportunities available to graduates with a major in mathematics or computer science include graduate study and a wide variety of positions in business, education, government, and industry.

Associate of Science Degree

Computer Science

The Associate of Science degree in Computer Science is designed to prepare individuals to meet challenges in the rapidly growing and changing field of computer science. Within the framework of general education courses and courses in computer science, this degree will prepare the students for an entry level position in a computer field, provide appropriate background for further study in computer science and develop skills and attitudes necessary to become responsible employees and citizens.

The occupational activities of computer personnel are diverse. Our program of study enables the student to develop knowledge of computer equipment, business procedures, 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	Specialized Writing/Research (3)	
MATH105	College Algebra (3)	
CSCI104	Essential Computing I (3)	
	1 SH from Four of six of the following Core categories (21)	
	Artistic Expression, World Civilizations, American Civilization, Human Behavior, Cultural Diversity/Social Pluralism, Ethics	
II. Required Computer Courses*		30 sem. hrs.
A. CSCI125	Introduction to Computer Science (3)	
CSCI130	Principles of Programming I (3)	
CSCI230	Principles of Programming II (3)	
CSCI280	Principles of System Operation and Administration (3)	
CSCI310	Uses of Microcomputers (3)	
CSCI313	Data Base Management Systems (3)	
CSCI496	Internship in Computer Science (6)**	
B. Choose a Concentration Area (6)		
1. Business Application		
CSCI308	Systems Analysis (3)	
CSCI320	Business Programming in COBOL(3)	
2. Object Oriented Programming		
CSCI207	Visual Basic (3)	
CSCI330	Object Oriented Programming (3)	
3. Web Development		
CSCI207	Visual Basic (3)	
CSCI304	Web Design and Implementation (3)	
III. Required Mathematics*		6 sem. hrs.
MATH208	Essentials of Calculus (3) (MATH105 College Algebra is a prerequisite for MATH208)	
MATH300	App. Stats/Data Analysis (3)	
	TOTAL	60 sem. hrs.

* A grade of C or better must be obtained in all computer science and mathematics courses.

** QPA's of at least 2.5 in the major and 2.0 overall are required to be placed in an internship (CSCI496). Students shall be permitted to substitute three upper level CSCI courses (nine semester hours) for CSCI496 provided the student has equivalent work experience and received the approval of his/her advisor, the department chairperson and the school dean.

Note: At most 12 computer science semester hours may be transferred into this degree program.

ASCS PROGRAM: COURSE BREAKDOWN BY SEMESTER

First Semester

CSCI125	Intro to Computer Science (3)	
CSCI130	Principles of Programming I (3)	
MATH105	College Algebra (3)	
ENGL101	College Writing Skills (3)	
CSCI104	Essential Computing I (3)	
	TOTAL	15 sem. hrs.

Second Semester

CSCI230	Principles of Programming II (3)	
CSCI280	Princ of System Operation and Admin (3)	
MATH208	Essentials of Calculus (3)	
ENGL102	Writing/Research (3)	
CSCI320	Business Programming in COBOL or	
CSCI207	Programming in Visual Basic (3)	
	TOTAL	15 sem. hrs.

Third Semester

	General Education Core (6)	
MATH300	App Stats/Data Analysis (3)	
CSCI313	Data Base Management Systems (3)	
CSCI310	Uses of Microcomputers or	
CSCI330	Object Oriented Programming (3)	
	TOTAL	15 sem. hrs.

Fourth Semester

CSCI308	Systems Analysis or		
CSCI304	Web Dev and Enterprise Computing or		
CSCI310	Uses of Microcomputers (3)		
	General Education Core (6)		
CSCI496	Internship in Computer Science (6)		
	TOTAL	15 sem. hrs.	

**ASSOCIATE OF SCIENCE – COMPUTER SCIENCE
CONCENTRATION IN BUSINESS APPLICATION
(Suggested Four-Semester Sequence)**

First Semester

CSCI125	Intro to Computer Science (3)		
CSCI130	Principles of Programming I (3)		
MATH208	Essentials of Calculus (3)		
ENGL101	College Writing Skills (3)		
CSCI104	Essential Computing (3)		
	TOTAL	15 sem. hrs.	

Second Semester

CSCI230	Principles of Programming II (3)		
CSCI280	Principles of System Operation and Administration (3)		
MATH300	App. Stats/Data Analysis (3)		
	General Education Core (6)		
ENGL102	Writing/Research (3)		
	TOTAL	18 sem. hrs.	

Third Semester

CSCI308	Systems Analysis (3)		
CSCI320	Business Programming in COBOL (3)		
	General Education Core (6)		
	TOTAL	12 sem. hrs.	

Fourth Semester

CSCI310	Uses of Microcomputers (3)		
CSCI313	Database Management Systems (3)		
CSCI496	Internship in Computer Science (6)		
	General Education Core (3)		
	TOTAL	15 sem. hrs.	

**CONCENTRATION IN OBJECT ORIENTED PROGRAMMING
(Suggested Four-Semester Sequence)**

First Semester

CSCI125	Intro to Computer Science (3)		
CSCI130	Principles of Programming I (3)		
MATH208	Essentials of Calculus (3)		
ENGL101	College Writing Skills (3)		
	General Education Core (3)		
	TOTAL	15 sem. hrs.	

Second Semester

CSCI220	Programming in COBOL I (3)		
CSCI230	Principles of Programming II(3)		
CSCI280	Principles of System Operation and Administration (3)		
MATH300	App. Stats/Data Analysis (3)		
	General Education Core (6)		
	TOTAL	18 sem. hrs.	

Third Semester

CSCI496	Internship in Computer Science (6)		
ENGL404	Technical Writing (3)		
	General Education Core (6)		
	TOTAL	15 sem. hrs.	

Fourth Semester

CSCI310	Uses of Microcomputers (3)		
CSCI313	Database Management Systems (3)		
CSCI330	Object-Oriented Programming (3)		
	General Education Core (6)		
	TOTAL	15 sem. hrs.	

**CONCENTRATION IN WEB DEVELOPMENT
(Suggested Four-Semester Sequence)**

First Semester

CSCI125	Intro to Computer Science (3)		
CSCI130	Principles of Programming I (3)		
MATH208	Essentials of Calculus (3)		
ENGL101	College Writing Skills (3)		
	General Education Core (3)		
	TOTAL	15 sem. hrs.	

Second Semester

CSCI207	Programming in Visual BASIC (3)		
CSCI230	Principles of Programming II (3)		
CSCI280	Principles of System Operation and Administration (3)		
MATH300	App. Stats/Data Analysis (3)		
	General Education Core (6)		
	TOTAL	18 sem. hrs.	

Third Semester

CSCI304	Web Development and Enterprise Computing (3)		
	General Education Core (9)		
	TOTAL	12 sem. hrs.	

Fourth Semester

CSCI310	Uses of Microcomputers (3)		
CSCI313	Database Management Systems (3)		
CSCI496	Internship in Computer Science (6)		
	General Education Core (3)		
	TOTAL	15 sem. hrs.	

Bachelor of Arts Degree

Mathematics

The Bachelor of Arts 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

Students in the BAMA program may choose to become members of the Pi Mu Epsilon Honorary Mathematics Society and/or the Mathematical Association of America Student Chapter.

The BAMA 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 BAMA 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	48 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101	College Writing (3)
	ENGL102	Writing and Research (3)
	MATH270	Discrete Math I (3)
	CSCI130	Principles of Programming I (3)
B.	Core	21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	

90/Curricula and Organization

American Civilizations (3)	
Human Behavior (3)	
Cultural Diversity and Social Pluralism (3)	
Ethics (3)	
Natural Science (3)	
C. Distribution	12 sem. hrs.
Humanities and Fine Arts	
Social and Behavioral Sciences	
Natural Sciences and Mathematics	
Six (6) semester hours with the same prefix in one area of distribution, three (3) semester hours in each of the other two areas of distribution.	
D. Health and Physical Education	3 sem. hrs.
II. Specialization*	39 sem. hrs.
A. Required Mathematics**	28 sem. hrs.
MATH211 Analytic Geometry and Calculus I (4)	
MATH212 Analytic Geometry and Calculus II (4)	
MATH275 Linear Algebra I (3)	
MATH311 Analytic Geometry and Calculus III (4)	
MATH350 Math Prob/Stat (3)	
MATH370 Discrete Mathematics II (3)	
MATH411 Introduction to Analysis (3)	
MATH421 Abstract Algebra (3)	
MATH480 Mathematics Seminar (1)	
B. Mathematics Electives	11 sem. hrs.
Courses used to satisfy this requirement must be approved by the student's advisor and selected from the following: Any MATH course numbered 300 or above, except MATH403, MATH404 and Internship.	
C. Computer Science Requirement	
CSCI130	
BAMA majors seeking certification in secondary mathematics may count MATH403 and MATH404 as mathematics electives.	
III. Electives***	33 sem. hrs.
TOTAL	120 sem. hrs.

* Specialization is 45 semester hours including MATH270 in I-A.

** A grade of C or better is required for any mathematics course numbered 200 or higher. In order to take a given class, students must receive a grade of C or better in all of its prerequisite mathematics courses.

*** Students are encouraged to select an appropriate minor. Students must also take at least 10 hours of courses numbered 300 or above, besides those already specified above.

**** Students will be limited to three attempts at any given major course.

BACHELOR OF ARTS – MATHEMATICS (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)	
MATH211	Analytic Geometry/Calculus I (4)	
CSCI130	Principles of Programming I (3)	
	General Education (6)	
TOTAL		16 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
MATH212	Analytic Geometry/Calculus II (4)	
MATH275	Linear Algebra I (3)	
	General Education (6)	
TOTAL		16 sem. hrs.

Third Semester

MATH311	Analytic Geometry/Calculus III (4)	
MATH270	Discrete Mathematics I (3)	
	General Education (9)	
TOTAL		16 sem. hrs.

Fourth Semester

MATH370	Discrete Mathematics II (3)	
	General Education (12)	
TOTAL		15 sem. hrs.

Fifth Semester

MATH350	Math Prob/Stat (3)	
	Math Elective (3)	
	General Education (3)	
	Electives (6)	
TOTAL		15 sem. hrs.

Sixth Semester

MATH421	Abstract Algebra (3)	
	Math Elective (3)	
	Electives (9)	
TOTAL		15 sem. hrs.

Seventh Semester

MATH411	Introduction to Analysis (3)	
MATH480	Seminar (1)	
	Electives (9)	
TOTAL		13 sem. hrs.

Eighth Semester

	Math Electives (5)	
	Electives (9)	
TOTAL		14 sem. hrs.

Bachelor of Arts Degree

Mathematics with an Actuarial Concentration

The Bachelor of Arts 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 BAMA 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 Concentration, in addition, students shall:

- 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.

I. General Education Requirements

A. Skills		12 sem. hrs.
ENGL101	College Writing (3)	
ENGL102	Writing and Research (3)	
MATH270	Discrete Mathematics I (3)	
CSCI130	Principles of Programming 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		12 sem. hrs.
	Humanities and Fine Arts (3)	

Social and Behavioral Sciences:				
	ECON225	Macroeconomics (3)		
	ECON220	Microeconomics (3)		
	Science and Mathematics - outside of mathematics (3)			
D.	Health and Physical Education		3 sem. hrs.	
II.	Specialization*		45 sem. hrs.	
A.	Required Mathematics**		27 sem. hrs.	
	MATH211	Analytical Geometry and Calculus I (4)		
	MATH212	Analytical Geometry and Calculus II (4)		
	MATH275	Linear Algebra I (3)		
	MATH311	Analytical Geometry and Calculus III (4)		
	MATH350	Mathematical Prob/Stat (3)		
	MATH360	Statistical Inference (3)		
	MATH380	Introduction to Actuarial Science (2)		
	MATH411	Introduction to Analysis		
	MATH480	Mathematics Seminar (1)		
B.	Mathematics Electives		9 sem. hrs.	
	Courses used to satisfy this requirement should be chosen from:			
	MATH317	Differential Equations		
	MATH370	Discrete Mathematics II		
	MATH385	Actuarial Mathematics		
	MATH465	A Survey of Mathematical Modeling		
	MATH475	Linear Algebra II		
	MATH510	Numerical Analysis		
	ECON541	Econometrics		
C.	Required Business Courses		9 sem. hrs.	
	ACCT215	Accounting I (3)		
	ACCT220	Accounting II (3)		
	FIN300	Business Finance I (3)		
III.	Electives***		27 sem. hrs.	
				TOTAL 15 sem. hrs.
				TOTAL 14 sem. hrs.
				TOTAL 13 sem. hrs.
				TOTAL 15 sem. hrs.

* Specialization is 48 semester hours including MATH270 in I-A.

** A grade of C or better is required for any mathematics course numbered 200 or higher. In order to take a given class, students must receive a grade of C or better in all of its prerequisite mathematics courses.

*** Students are encouraged to pursue an internship or a minor within their free electives.

**** Students will be limited to three attempts at any given major course.

Note: At most, 18 mathematics semester hours may be transferred into this degree program.

BACHELOR OF ARTS – MATHEMATICS WITH ACTUARIAL CONCENTRATION (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
MATH211	Analytic Geometry and Calculus I (4)		
CSCI130	Principles of Programming (3)		
	General Education (6)		
	TOTAL		16 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
MATH212	Analytic Geometry and Calculus II (4)		
	General Education (9)		
	TOTAL		16 sem. hrs.

Third Semester

MATH270	Discrete Mathematics (3)		
MATH311	Analytic Geometry and Calculus III (4)		
ACCT215	Accounting I (3)		
ECON225	(Gen Ed) Principles of Macroeconomics (3)		
	General Education (3)		
	TOTAL		16 sem. hrs.

Fourth Semester

MATH275	Linear Algebra I (3)		
ACCT220	Accounting II (3)		
ECON220	(Gen Ed) Principles of Microeconomics (3)		
	General Education (6)		
	TOTAL		15 sem. hrs.

Fifth Semester

MATH350	Mathematical Prob/Stat (3)		
FIN300	Business Finance I (3)		
	General Education (6)		
	Math Elective (3)*		
	TOTAL		15 sem. hrs.

Sixth Semester

MATH360	Statistical Inference (3)		
MATH380	Intro to Actuarial Science (2)		
	Math Elective (3)*		
	Electives (6)		
	TOTAL		14 sem. hrs.

Seventh Semester

MATH411	Intro to Analys (3)		
MATH480	Mathematics Seminar (1)		
	Electives (9)		
	TOTAL		13 sem. hrs.

Eighth Semester

	Math Elective (3)*		
	Electives (12)		
	TOTAL		15 sem. hrs.

NOTE: Students are required to take three math electives from the following list: MATH317, MATH370, MATH385, MATH465, MATH475, MATH510, ECON541

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's degree in Computer Science has an applications track, theoretical track, and a game & virtual development track. All three tracks are designed around national curriculum models and employment opportunities. The theoretical track is also 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, Argonne 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 which feature Alpha computers, Sun workstations, Windows-based PCs, and full Internet access. The department sponsors a computer club, open to all interested students, and a programming team that competes annually at the state level and national level.

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.

Applications Track

General Education Component		48 sem. hrs.
MATH105	College Algebra is required in Part (A) Skills area in place of MATH104 (3)	
CSCI130	Principles of Programming I (3)	
Computer Science Component*		39 sem. hrs.
Required Courses		27 sem. hrs.
CSCI125	Introduction to Computer Science (3)	

92/Curricula and Organization

CSCI230	Principles of Programming II (3)		
CSCI280	Principles of System Operation and Administration (3)		
CSCI308	Systems Analysis (3)		
CSCI310	Uses of Microcomputers (3)		
CSCI312	Organization and Architecture (3)		
CSCI313	Data Base Management Systems (3)		
CSCI320	Business Programming in COBOL (3)		
CSCI330	Object Oriented Programming (3)		
Electives		15 sem. hrs.	
Fifteen semester hours of CSCI courses, at the 205 level or higher which may include at most 3 semester hours of programming languages. At least 12 semester hours must be at the 300 level or higher.			
Required Mathematics Component*		12 sem. hrs.	
MATH208	Essentials of Calculus (3)		
MATH270	Discrete Mathematics I (3)		
MATH275	Linear Algebra I (3)		
MATH300	App. Stats/Data Analysis (3)		
	Internship		
CSCI496	Computer Science Internship**	9 sem. hrs.	
Free Electives		9 sem. hrs.	
TOTAL		120 sem. hrs.	

* A grade of C or better must be obtained in all computer science and mathematics courses.

** QPA's of at least 2.5 in the major and 2.0 overall are required to be placed in an internship (CSCI496). Students shall be permitted to substitute three courses (nine semester hours) for CSCI496 provided the student has equivalent work experience and received the approval of his/her advisor, the department chairperson and the school dean.

NOTE: At most 12 computer science semester hours may be transferred into this degree program.

BACHELOR OF SCIENCE – COMPUTER SCIENCE (APPLICATION TRACK)
(Suggested Eight-Semester Sequence)

First Semester

CSCI125	Intro to Computer Science (3)		
CSCI130	Principles of Programming I (3)		
MATH105	College Algebra (3)		
ENGL101	College Writing Skills (3)		
	General Education (3)		
TOTAL		15 sem. hrs.	

Second Semester

CSCI230	Principles of Programming II (3)		
MATH208	Essentials of Calculus (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
	General Education (6)		
TOTAL		15 sem. hrs.	

Third Semester

CSCI308	Systems Analysis (3)		
CSCI330	Object Oriented Programming (3)		
MATH270	Discrete Mathematics I (3)		
	General Education (3)		
	Health (3)		
TOTAL		15 sem. hrs.	

Fourth Semester

CSCI313	Database Management Systems (3)		
CSCI320	Business Programming in COBOL (3)		
MATH275	Linear Algebra I (3)		
	General Education (6)		
TOTAL		15 sem. hrs.	

Fifth Semester

MATH300	App. Stats/Data Analysis (3)		
CSCI280	Principles of System Operation and Administration (3)		
	CSCI Elective(6)		
	General Education (3)		
TOTAL		15 sem. hrs.	

Sixth Semester

CSCI310	Uses of Microcomputers (3)		
CSCI312	Organization and Architecture (3)		
	CSCI Elective (3)		
	General Education (3)		
	Free Elective (3)		
TOTAL		15 sem. hrs.	

Seventh Semester

CSCI496	Computer Science Internship (9)		
	General Education (6)		
TOTAL		15 sem. hrs.	

Eighth Semester

	CSCI Elective (6)		
	Free Elective (6)		
	General Education (3)		
TOTAL		15 sem. hrs.	

Theoretical Track

General Education Component		49 sem. hrs.
MATH107	Precalculus (math skills course) (4)	
CSCI130	Principles of Programming I (3)	
MATH270	Discrete I (3)	
MATH370	Discrete II (3)	
Computer Science Component*		42 sem. hrs.
Required Courses		30 sem. hrs.
CSCI125	Introduction to Computer Science (3)	
CSCI230	Principles of Programming II (3)	
CSCI312	Organization and Architecture (3)	
CSCI330	Object Oriented Programming (3)	
CSCI380	Operating Systems (3)	
CSCI385	Data Structures and Analysis of Algorithms (3)	
CSCI408	Software Engineering (3)	
CSCI410	Programming Languages (3)	
CSCI475	Data Communications and Networking (3)	
CSCI480	Computer Science Seminar (1)	
Computer Science Electives		12 sem. hrs.
Twelve semester hours of CSCI courses, at the 205 level or higher, which may include at most 3 sh of programming languages. At least 9 semester hours must be at the 300 level or higher. CSCI496 may not be used to fulfill this requirement.		
Required Mathematics Component**		14 sem. hrs.
MATH211	Analytic Geometry and Calculus I (4)	
MATH212	Analytic Geometry and Calculus II (4)	
MATH275	Linear Algebra I (3)	
MATH300	App. Stats/Data Analysis (3)	
Required Science		
Must complete at least one approved lab science course		
Free Electives		7 sem. hrs.
		8 sem. hrs.
TOTAL		120 sem. hrs.

* A grade of C or better must be obtained in all computer science and mathematics courses.

**Must complete at least 30 credits of combined math and science credits.

NOTE: At most 12 computer science semester hours may be transferred into this degree program.

BACHELOR OF SCIENCE – COMPUTER SCIENCE (THEORETICAL TRACK)
(Suggested Eight-Semester Sequence)

First Semester

CSCI125	Introduction to Computer Science (3)		
CSCI130	Principles of Programming I (3)		
MATH107	Precalculus (4)		
ENGL101	College Writing Skills (3)		
	General Education (3)		
TOTAL		16 sem. hrs.	

Second Semester				Required Mathematics Component**	10 sem. hrs.
CSCI230	Principles of Programming II (3)			MATH212 Analytic Geometry and Calculus II (4)	
MATH211	Analytic Geometry/Calculus I (4)			MATH270 Discrete I (3)	
ENGL102	College Writing/Research (3)			MATH300 App Stats/Data Analysis (3)	
	General Education (6)			Required Art and Music Component	12 sem hrs.
		TOTAL	16 sem. hrs.	ART102 Three-Dim Design (3)	
				ART268 Beginning Animation (3)	
Third Semester				ART347 Computer Animation I (3)	
CSCI330	Object Oriented Programming (3)			ART348 Computer Animation II (3)	
MATH212	Analytic Geometry/Calculus II (4)			Free Electives	8 sem. hrs.
MATH270	Discrete Mathematics I (3)				
	General Education (3)				
	Health (3)				
		TOTAL	16 sem. hrs.		
				** A grade of C or better must be obtained in all computer science and mathematics courses.	
				** At most 12 computer science semester hours may be transferred into this degree program.	
Fourth Semester				TOTAL	120 sem. hrs.
CSCI312	Organization and Architecture (3)				
MATH370	Discrete Mathematics II (3)				
	Science (3)				
	General Education (6)				
		TOTAL	15 sem. hrs.		
Fifth Semester				BACHELOR OF SCIENCE – COMPUTER SCIENCE (GAME & VIRTUAL WORLD DEVELOPMENT TRACK)	
CSCI385	Algorithms and Data Structures (3)			(Suggested Eight-Semester Sequence)	
MATH275	Linear Algebra I (3)			First Semester	
	Science (3)			CSCI125	Introduction to Computer Science (3)
	General Education (6)			CSCI130	Principles of Programming I (3)
		TOTAL	15 sem. hrs.	MATH107	Precalculus (4)
				ENGL101	College Writing Skills (3)
					General Education (3)
				TOTAL	16 sem. hrs.
Sixth Semester				Second Semester	
CSCI380	Operating Systems (3)			CSCI230	Principles of Programming II (3)
	CS Elective (3)			MATH211	Analytic Geometry/Calculus I (4)
	Free Elective (5)			ENGL102	College Writing/Research (3)
	General Education (3)			PHYS201	Physics I (4)
		TOTAL	14 sem. hrs.		
				TOTAL	14 sem. hrs.
Seventh Semester				Third Semester	
CSCI410	Programming Languages (3)			CSCI330	Object Oriented Programming (3)
CSCI475	Data Comm. and Networking (3)			MATH212	Analytic Geometry/Calculus II (4)
MATH350	Mathematical Probability and Statistics (3)			MATH270	Discrete Mathematics I (3)
	CSCI Elective (3)			ART102	Three Dim Design(3)
	General Education (3)				General Education (3)
		TOTAL	15 sem. hrs.		
				TOTAL	16 sem. hrs.
Eighth Semester				Fourth Semester	
CSCI480	Computer Science Seminar (1)			CSCI312	Organization and Architecture (3)
	CSCI Elective (3)			CSCI340	Game Programming
	Free Elective (6)			MATH275	Linear Algebra I (3)
	General Education (3)			ART268	Beginning Animation (3)
		TOTAL	13 sem. hrs.		General Education (3)
				TOTAL	15 sem. hrs.
Game & Virtual World Development Track				Fifth Semester	
General Education Component		51 sem. hrs.		CSCI270	Artificial Intelligence (3)
MATH107	Precalculus (math skills course) (4)			MATH300	App Stats/Data Analysis (3)
CSCI130	Principles of Programming I (3)			ART347	Computer Animation I (3)
PHYS201	PhysicsI (4)				General Education (6)
MATH211	Caluclus I (4)				
MATH275	Linear Algebra (3)			TOTAL	15 sem. hrs.
Computer Science Component**		39 sem. hrs.		Sixth Semester	
Required Courses		33 sem. hrs.		CSCI380	Operating Systems (3)
CSCI125	Introduction to Computer Science (3)			CSCI385	Data Structures & Analysis of Algorithms (3)
CSCI230	Principles of Programming II (3)			ART348	Computer Animation II (3)
CSCI312	Organization and Architecture (3)				CSCI Elective (3)
CSCI330	Object Oriented Programming (3)				General Education (3)
CSCI340	Game Programming (3)				
CSCI360	Introduction to Graphics (3)			TOTAL	15 sem. hrs.
CSCI370	Artificial Intelligence (3)			Seventh Semester	
CSCI380	Operating Systems (3)			CSCI360	Computer Graphics (3)
CSCI385	Data Structures and Analysis of Algorithms (3)			CSCI440	Game Design and Development (3)
CSCI440	Game Design and Development (3)				CSCI Elective (3)
CSCI485	Senior Project in Gaming(3)				Free Elective (3)
Computer Science Electives		6 sem. hrs.			General Education (3)
Six semester hours of CSCI courses, at the 300 level or higher, CSCI475 recommended. CSCI496 may not be used to fulfill this requirement.				TOTAL	15 sem. hrs.

Eighth Semester

CSCI485	Senior Project in Gaming (3)
	CSCI Elective (6)
	Free Elective (5)

TOTAL 14 sem. hrs.

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.

Music Department

FACULTY: Bradley Amidon, Jacqueline Black, Daniel Burdick, Tim Cordell, David Denton, Kristine Denton, Gary Grant, Allen Howell, Patrick Jones, Chuck Lute, Howard Lyon, Erik Mann, Carolina Melchiori, Anne Ortega, Patrick Regan, Peter van den Honert, Leanne Wistrom

MISSION STATEMENT

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

LEARNING OUTCOMES FOR ALL MUSIC MAJORS

- Students will have the skills necessary to select, prepare and perform a variety of music appropriate for diverse ensembles and diverse audiences.
- Students will have the analytical and listening skills necessary to understand and evaluate a variety of music from different times and cultures.
- Students will be able to engage in musical research and analysis in order to provide musically relevant insights into a variety of music from different times and cultures.
- Students will have the written and aural communication skills necessary to effectively discuss their insights and understanding of music and the importance of music in society with people of varying degrees of musical experience and understanding.
- All graduates will have a commitment to self-improvement and life-long learning.
- Students will have elementary arranging, compositional and improvisational skills.
- Students will be able to utilize current technology in a variety of musical activities.
- Students will be able to create an environment where all learners—regardless of age, race, sexual orientation, physical and learning disabilities, religion, or political views—feel welcome.

ACCREDITATION

The Music Department is accredited by the National Association of Schools of Music, and offers coursework leading to the Bachelor of Arts — Music or Bachelor of Arts — Music Education degrees. A minor in music is also available.

The Music Department sponsors student chapters of professional organizations such as the Music Educators National Conference and the American Choral Directors Association, as well as chapters of professional music fraternities such as Sigma Alpha Iota (women) and Phi Mu Alpha Sinfonia (men).

Prospective students are accepted into the department on the basis of an audition and interview pending final approval by the Office of Admissions. Several auditions are held each year and can be arranged by individual appointment.

Admission into the teacher education program is based on state requirements. Contact the School of Education for current requirements.

The core of required courses includes theory, performance and music history. Music education majors take courses in learning theory, music methodology, field experiences, school law and ethics, and student teaching. Participation in music ensembles is required of all music majors in each semester of full-time enrollment. Senior music majors must also complete a 1/2 solo recital before graduating.

Bachelor of Arts Degree**Music**

I.	General Education Requirements	48 sem. hrs.
II.	Music	49 sem. hrs.
A.	Music Core Courses	27 sem. hrs.
	MUSC010 Basic Musicianship (0)*#	
	<i>MUSC010 does not count toward graduation</i>	
	MUSC104 Aural Skills I (1)	
	MUSC204 Aural Skills II (1)	
	MUSC206 Aural Skills III (1)	
	MUSC121 Theory I (3) ¹	
	MUSC221 Theory II (3)	
	MUSC222 Theory III (3)	
	MUSC326 Musical Forms and Analysis (2)	
	MUSC320 Arranging (2)	
	MUSC103 Intro. to Music (0) (included in General Education)	
	MUSC250 Music History I (3)	
	MUSC251 Music History II (3)	
	<i>Plus two courses from the following list:</i>	
	MUSC136 Piano Lab I (1) and	
	MUSC137 Piano Lab II (1) or	
	MUSC305 Tech. of Accompanying (1) and	
	MUSC312 Advanced Keyboard Tech (1)	
	MUSC322 Basic Conducting (1)	
	MUSC328 Adv. Instrumental Conducting (2) or	
	MUSC327 Adv. Choral Conducting (2)	
B.	Applied Music ²	8 sem. hrs.
	MUSC130 Applied Music (1)	
	MUSC131 Applied Music (1)	
	MUSC230 Applied Music (1)	
	MUSC231 Applied Music (1)	
	MUSC330 Applied Music (1)	
	MUSC331 Applied Music (1)	
	MUSC430 Applied Music (1)	
	MUSC431 Applied Music (1)	
C.	Ensembles ³	8 sem. hrs.
D.	Music Electives	6 sem. hrs.
	<i>To be chosen from the following:</i>	
	MUSC130/131/132 Applied Music – secondary instrument (1-3)	
	MUSC207 Jazz Improvisation (3)	
	MUSC211 World Music (3)	
	MUSC219 Marching Band Techniques (1)	
	MUSC240 Music of Broadway (3)	
	MUSC304 Twentieth Century Techniques (3)	
	MUSC307 Opera (3)	
	MUSC343 Evolution of Jazz (3)	
	MUSC344 American Music (3)	
	MUSC404 Choral Literature (3)	
	MUSC412 Form and Composition (3)	
	MUSC416 Instrumental Arranging (3)	
	MUSC417 Choral Arranging (3)	
	MUSC490 Independent Study in Music (3)	
	MUSC503 Music of the British Isles (3)	
	MUSC514 Counterpoint I (3)	
III.	Electives	23 sem. hrs.
	TOTAL	120 sem. hrs.

- Enrollment in MUSC121 (Music Theory I) is contingent upon successful completion of a placement examination or MUSC010 (Basic Musicianship).
- Each student must enroll in at least one credit hour of applied instruction on his/her major instrument each semester he/she is enrolled as a full-time student.
- Each student must enroll in an ensemble on his/her major instrument each semester he/she is enrolled as a full-time student.

* Student may test out of this requirement.

This course does not count toward graduation.

BACHELOR OF ARTS – MUSIC
(Suggested Eight-Semester Sequence)

First Semester

MUSC010	Basic Musicianship (3)		
MUSC104	Aural Skills I (1)		
MUSC136	Piano Lab I or		
MUSC305	Tech of Accompany (1)		
MUSC130	Applied Music (1)		
	Music Ensemble (1)		
	Phys Ed Lecture/ Activity (3)		
ENGL101	College Writing Skills (3)		
MATH104	Finite Math (3)		
	TOTAL	16 sem. hrs.	

Second Semester

MUSC103	Intro. to Music/majors (3)		
MUSC204	Aural Skills II (1)		
MUSC121	Music Theory I (3)		
MUSC137	Piano Lab II or		
MUSC312	Adv. Keyboard Tech. (1)		
MUSC131	Applied Music (1)		
	Music Ensemble (1)		
ENGL102	Specialized College Writing and Research Skills (3)		
CSCI104 or higher	CSCI course (3)		
	TOTAL	16 sem. hrs.	

Third Semester

MUSC206	Aural Skills III (1)		
MUSC221	Music Theory II (3)		
MUSC250	Music History I (3)		
MUSC230	Applied Music (1)		
	Music Ensemble (1)		
	General Education Core (3)		
	General Education Core (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

MUSC222	Music Theory III (3)		
MUSC251	Music History II (3)		
MUSC231	Applied Music (1)		
	Music Ensemble (1)		
	General Education Core (3)		
	General Education Core (3)		
	TOTAL	14 sem. hrs.	

Fifth Semester

MUSC320	Intro to Arranging (2)		
MUSC322	Basic Conducting (1)		
MUSC330	Applied Music (1)		
	Music Ensemble (1)		
	General Education Core (3)		
	General Education Core (3)		
	General Education Distribution (3)		
	Music Elective (3)		
	TOTAL	17 sem. hrs.	

Sixth Semester

MUSC326	Musical Forms and Analysis (2)		
MUSC327	Adv. Choral Cond. (2) or		
MUSC328	Adv. Inst. Cond. (2)		
MUSC331	Applied Music (1)		
	Music Ensemble (1)		
	Music Elective (3)		
	General Education Distribution (3)		
	General Education Distribution (3)		
	TOTAL	15 sem. hrs.	

Seventh Semester

MUSC430	Applied Music (1)		
	Music Ensemble (1)		
	Free Elective (3)		
	General Education Distribution 2B (3)		
	Free Elective (2)*		
	Free Elective (3)		
	Free Elective (3)		
	TOTAL	16 sem. hrs.	

Eighth Semester

MUSC431	Applied Music (1)		
	MUSC Ensemble (1)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	TOTAL	14 sem. hrs.	

* Vocal majors must take MUSC223 Diction for Singers (1 sem. hr.) within their first four semesters. They will then need a one semester hour elective in their seventh semester instead of two semester hours in their seventh semester.

BACHELOR OF ARTS – MUSIC EDUCATION

I. General Education Requirements	48 sem. hrs.
II. Music	47 sem. hrs.
A. Music Core Courses	27 sem. hrs.

MUSC010	Basic Musicianship (0)*#
	<i>MUSC010 does not count toward graduation</i>
MUSC104	Aural Skills I (1)
MUSC204	Aural Skills II (1)
MUSC206	Aural Skills III (1)
MUSC121	Theory I (3)1
MUSC221	Theory II (3)
MUSC222	Theory III (3)
MUSC326	Musical Forms and Analysis (2)
MUSC320	Intro. to Arranging (2)
MUSC103	Intro. to Music (0) (Included in General Education)
MUSC250	Music History I (3)
MUSC251	Music History II (3)

Plus two courses from the following list:

MUSC136	Piano Lab I (1) and
MUSC137	Piano Lab II (1) or
MUSC305	Tech. of Accompanying (1) and
MUSC312	Advanced Keyboard Tech. (1)
MUSC322	Basic Conducting (1)
MUSC328	Adv. Instrumental Conducting (2) or
MUSC327	Adv. Choral Conducting (2)

B. Applied Music ² 7 sem. hrs.

MUSC130	Applied Music (1)
MUSC131	Applied Music (1)
MUSC230	Applied Music (1)
MUSC231	Applied Music (1)
MUSC330	Applied Music (1)
MUSC331	Applied Music (1)
MUSC430	Applied Music (1)

C. Ensembles³ 7 sem. hrs.

D. Music Electives 6 sem. hrs.

To be chosen from the following:

MUSC130/131/132	Applied Music - secondary instrument (1-3)
MUSC207	Jazz Improvisation (3)
MUSC211	World Music (3)
MUSC219	Marching Band Techniques (1)
MUSC240	Music of Broadway (3)
MUSC304	Twentieth Century Techniques (3)
MUSC307	Opera (3)
MUSC343	Evolution of Jazz (3)
MUSC344	American Music (3)
MUSC404	Choral Literature (3)
MUSC412	Form and Composition (3)
MUSC416	Instrumental Arranging (3)
MUSC417	Choral Arranging (3)
MUSC490	Independent Study in Music (2-5)
MUSC503	Music of the British Isles (3)
MUSC514	Counterpoint 1 (3)

III. Music Education Courses	31 sem. hrs.
SPED330 Exceptional Learners in the P-12 Inclusive Classroom (3)	
SEDU271 Ed. in a Multicultural Society (3)	
MUED216 Methods in Elem. and General Music Teaching (0) (Included in General Education)	
MUED217 Elem. Music Field Experience (1)	
MUED418 Methods in Sec. Instrumental and Vocal Methods (3)	
MUED419 Sec. Music Field Experience (1)	
ARED486 Professional Topics in Art Ed. (1)	
MUED495 Student Teaching (12)	
MUSC113 Class Voice I (1) or	
MUSC223 Diction for Singers (1)	
MUSC213 Woodwind Class I (1)	
MUSC215 Strings I (1)	
MUSC314 Woodwind Class II (1)	
MUSC317 Brass Class (1)	
MUSC318 Percussion Class (1)	

TOTAL 125 sem. hrs.

1. Enrollment in MUSC121 (Music Theory I) is contingent upon successful completion of a placement examination or MUSC010 (Basic Musicianship).
2. Each student must enroll in at least one hour of applied instruction on his/her major instrument each semester he/she is enrolled as a full-time student, with the exception of the student teaching semester.
3. Each student must enroll in an ensemble on his/her major instrument each semester he/she is enrolled as a full-time student, with the exception of the student teaching semester.

* Student may test out of this requirement.

This course does not count toward graduation.

BACHELOR OF ARTS – MUSIC EDUCATION (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)
MATH110	Mathematical Reasoning I (3)
MUSC010	Basic Musicianship (3)
MUSC104	Aural Skills I (1)
MUSC136	Piano Lab I or
MUSC305	Tech. of Accompany (1)
MUSC130	Applied Music (1)
	Music Ensemble (1)
	Phys. Ed.Lecture/Activity (3)

TOTAL 16 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
MUSC103	Intro. to Music (majors) (3)
MUSC113	Class Voice or
MUSC223	Diction for Singers (1)
MUSC121	Music Theory I (3)
MUSC204	Aural Skills II (1)
MUSC137	Piano Lab II or
MUSC312	Adv. Keyboard Tech. (1)
MUSC131	Applied Music (1)
	Music Ensemble (1)
	General Education Core (3)

TOTAL 17 sem. hrs.

Third Semester

MUSC206	Aural Skills III (1)
MUSC221	Music Theory II (3)
MUSC250	Music History I (3)
MUSC230	Applied Music (1)
	Music Ensemble (1)
MUSC215	Strings Class I (1)
	General Education Core (3)

TOTAL 13 sem. hrs.

Fourth Semester

SEDU271	Ed. in a Multicultural Society (3)
MUED216	Meth. in Elem. and Gen. Music (3)
MUED217	Elem. Music Field Experience (1)
MUSC222	Music Theory III (3)
MUSC251	Music History II (3)
MUSC231	Applied Music (1)
	Music Ensemble (1)
MUSC213	Woodwind Class I (1)

TOTAL 16 sem. hrs.

Fifth Semester

MUSC314	Woodwind Class II (1)
MUSC320	Intro. to Arranging (2)
MUSC322	Basic Conducting (1)
MUSC330	Applied Music (1)
SPED330	Exceptional Learners in the P-12 Inclusive Classroom (3)
	Music Ensemble (1)
	General Education Core (3)
	General Education Distribution (3)

TOTAL 15 sem. hrs.

Sixth Semester

MUSC317	Brass Class (1)
MUSC318	Percussion Class (1)
MUSC326	Musical Forms and Analysis (2)
MUSC327	Adv. Choral Conducting (2) or
MUSC328	Adv. Instr. Conducting (2)
MUSC331	Applied Music (1)
	Music Ensemble (1)
	Music Elective (3)
	General Education Core (3)
	General Education Distribution (3)

TOTAL 17 sem. hrs.

Seventh Semester

MUSC430	Applied Music (1)
	Music Ensemble (1)
	Music Elective (3)
MUED418	Meth. in Sec. Inst. and Vocal Methods (3)
MUED419	Sec. Music Field. Exp. (1)
	General Education Core (3)
	General Education Distribution (3)
	General Education Distribution (3)

TOTAL 18 sem. hrs.

Eighth Semester

	Topics in Art Education (1)
MUED495	Student Teaching (12)

TOTAL 13 sem. hrs.

Nursing Department

FACULTY: Jolynn Agostini, Terri Astorino, Dorothy Carlson, Alice E. Conway, Vicky Hedderick, Debra J. Kubinski, Kathleen N. Lee, Lee Ann Leech, Susan Maloney, Amy McClune, Karen Morahan, Janet Newcamp, Patricia Nosel, Ellen Pfadt, Mikah Simmons, Susan Sitter, Catherine Stiller, Kimberly Streiff, Amy Weschler, Thomas Robert White, Cathleen Wierzbowski

**The baccalaureate program in nursing is accredited by the
Commission on Collegiate Nursing Education
One Dupont Circle, NW, Suite 530
Washington, DC 20036
Telephone: 202-887-6791 or 202-887-8476
webmaster@aacn.nche.edu**

The baccalaureate degree program in nursing is developed within the general framework and policies of Edinboro University. It is a four-year program that combines professional nursing courses and clinical learning experiences with general education requirements. Upon successful completion of the program,

the student receives a B.S. degree with a major in nursing and is eligible to write the NCLEX Examination for licensure as a Registered Nurse, provided the State Board approves the student's application. Graduates of the program are prepared to function as professional nurses in a variety of health care settings. Conviction of a misdemeanor, felony, felonious act or illegal act associated with alcohol or illegal substances will require State Board review prior to eligibility to sit for the NCLEX.

Courses at the lower division level are selected to meet the general education requirements of the University and to provide the scientific base in the physical, biological, social, and psychological sciences necessary for understanding and competency in professional nursing practice. Nursing courses are structured to provide the sequential learning experiences for students perceived as essential to the development of a professional nurse.

During the sophomore, junior and senior years, clinical experiences are obtained in a variety of health care agencies in the Erie and Meadville areas. Attendance at all clinical experiences is mandatory.

PHILOSOPHY OF THE BACCALAUREATE NURSING PROGRAM

The purpose of the Department of Nursing is to prepare professional nurses for entry level practice in a variety of healthcare settings. The faculty believe that preparation for professional nursing is the baccalaureate degree in nursing. Through a liberal and professional education, nurses acquire a foundation for the development of clinical judgment skills, professional values, and value-based behaviors. Behaviors such as caring, altruism, and integrity are central to the practice of professional nursing.

The faculty of the Department of Nursing incorporate the goals and objectives established by the University. Emphasis is placed on the development of the student as a holistic individual, a member of the nursing profession, and an effective citizen within a community and global perspective.

The faculty believes that education is an organized and continuing process of purposeful, guided, and self-directed activities to enhance the development of the individual student according to potential and interests; that learning involves a change in behavior brought about by critical thinking, knowledge, and experiences; and that the identification of learning goals, the selection of experiences, and the evaluation of outcomes are developed collaboratively by the student and the educator. The basic assumption inherent in the teaching-learning process is that self-awareness, self-development, and evaluation are best achieved in an open and reciprocal student-educator environment.

The faculty believes nursing is a profession based on the interrelationship of person, health, nurse and environment. The **PERSON** is perceived as a unique, holistic being striving to achieve maturation and the self-realization of potential. A human being responds to experiences in ways that impact on his/her own internal and external environments and that affect the basic units of socialization, which are the family and community. A person possesses free will, the power to choose, and the ability to learn and reflect on oneself. As a person matures and develops in awareness, the exercise of these traits gives him/her relative control, accountability, and responsibility for the selection and achievement of personal outcomes.

HEALTH is a term describing the dynamic level of wholeness or integrity of human beings. It is a highly individualized perception, has culturally determined elements, and is evident in daily patterns of functioning. Health includes interpersonal and social coexistence with other persons. Health also encompasses well-being and is a state of integrated functioning that promotes human dignity within illness and disability.

A **NURSE** is a healthcare professional who identifies and treats human responses to health and illness through the application of scientific knowledge. Furthermore, a nurse, working in a professional capacity, maximizes the person's health potential. The nurse delivers care in all environments to individuals, families, groups, and communities as a provider, coordinator and designer/manager of care. In these roles, the nurse functions as patient advocate and educator for care provision, health promotion, and risk reduction. The nurse provides care to an increasingly diverse population across the life span. He/she is prepared to make and assist others in making ethical decisions within a professional framework. A nurse is educated to help all individuals and families make decisions within the end-of-life context of their values. Membership in the profession involves acquisition of an ethical framework, knowledge of political and regulatory processes defining healthcare delivery, and life-long learning.

ENVIRONMENT is the physical and psychosocial context in which human beings act and react. A person's environment consists of interacting physical, psychosocial, cultural, spiritual, interpersonal, and ethical components.

The additional components of core competencies (critical thinking, communication, assessment and therapeutic nursing interventions) and core knowledge (health promotion, risk reduction and disease prevention, illness and disease management, rehabilitation, information and healthcare technologies, ethics, human diversity, global health care, and healthcare systems and policy) are also essential to the preparation of a professional nurse (adapted from Commission on Collegiate Nursing Education). With this educational preparation, the baccalaureate prepared nurse uses theory and research-based knowledge to provide direct and indirect care to individuals, families, groups, and communities; provide, coordinate and design/manage care, and function as a member of a profession.

The faculty believes that preparation for professional nursing is the baccalaureate degree in nursing. Prepared at the master's level, the family nurse practitioner functions in an expanded professional nursing role as a provider of primary health care.

EXPECTED RESULTS OF THE BACCALAUREATE PROGRAM

At the completion of the program, the graduate will:

1. assume an entry level professional position with practice based on current knowledge, theory, and research from the humanities, nursing, social, behavioral, and physical sciences to contribute to the delivery of a seamless continuum of care.
2. provide comprehensive, individualized, culturally competent, and spiritually focused nursing care while fulfilling responsibilities inherent in the roles of provider, coordinator, and designer/manager of care.
3. communicate, collaborate, and facilitate as a member of the interdisciplinary team to effect positive change using creative problem solving approaches.
4. establish partnerships with patients in the development of plans of care that reflect personal values and beliefs, cultural practices, and the individual, family, group, and community's right to choose.
5. participate in evidence-based and research oriented practice utilizing current technology and information systems to achieve positive patient, family, groups, and community outcomes as a measure of the effectiveness and the value of nursing care.
6. utilize the nursing process as data gather, interpreter, and synthesizer to meet the healthcare needs of individuals, families, groups, and communities across the lifespan and within the context of a diverse local, national, and global perspective.
7. assume responsibility and accountability for nursing practice within the legal and ethical parameters established by professional organizations and regulatory agencies.
8. pursue personal and professional development through commitment to lifelong learning, participation in professional organizations, nursing research, and community service, and involvement in political processes and the advancement of healthcare policy using creative problem solving techniques.
9. role model leadership behaviors to advocate and negotiate for individuals, families, groups, and communities, especially those who are at risk and most vulnerable in order to impact the quality, accessibility, and cost of health care.

ADDITIONAL COSTS

During the fall of the sophomore year uniforms and other accessories must be ordered. Nursing majors are responsible for securing their own transportation to agencies utilized in meeting course requirements. All sophomore, junior and senior nursing majors must have a complete physical examination, meet specific health requirements, and carry nursing liability insurance. Students may also incur cost related to ATI testing and skill module requirements.

TRANSFER POLICIES

Edinboro University students who wish to change their major to Nursing for the fall semester must file an application to change their major in the Office of Records and Registration by March 1. The minimum requirements are:

1. Have completed 32 semester hours at Edinboro University at the time of application.
2. Possess a cumulative G.P.A. of 2.75 or higher.

Admission to this major via the change of major process will be contingent upon the availability of space in the program. Applications will be reviewed and decisions will be made as space becomes available. Each application will

be screened by the Nursing Department chair and the dean of Science, Management and Technology. The final decision rests with the dean. Students making application for readmission will follow the same procedure outlined above.

Undergraduate students wishing to transfer from other institutions may be admitted to the Nursing program with the approval of the dean of the school if **there is space in the class**. They must have:

1. A cumulative G.P.A. of 2.75 or higher for courses taken at other institutions.
2. Been advised by the chairperson, Department of Nursing, regarding transfer credits and the nursing curriculum.
3. Possess the same high school background as entering freshmen.

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	General Psychology	3
PSYC317	Developmental Psychology	3
PSYC319	Psychology of Aging	3
SOC100	Principles of Sociology	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
CHEM141	Bio-organic Chemistry	4

35 sem. hrs.

All transfers into the Nursing program are dependent upon availability of class space. The number of matriculants in nursing will be determined by the University Admissions Committee, based on recommendations from the appropriate dean and the faculty of the Department of Nursing.

Bachelor of Science Degree

Nursing (B.S.)

I. General Education Requirements and Required Supporting Courses	69 sem. hrs.	
ENGL101	College Writing Skills	
CHEM140	General Chemistry	
CHEM141	Bio-organic Chemistry	
BIOL312	Human Physiology/Anatomy I	
BIOL313	Human Physiology/Anatomy II	
BIOL318	Clinical Microbiology	
PSYC101	General Psychology	
PSYC317	Developmental Psychology	
PSYC319	Psychology of Aging	
SOC100	Principles of Sociology	
MATH260	Elements of Statistics	
PHIL200	Introduction to Philosophy	
NUTR310	Nutrition	
II. Area of Concentration		
NURS201	Nursing Assessment	
NURS202	Fundamental Nursing Intervention	
NURS301	Mat/NB/Fam-Centered Nursing	
NURS302	Ped and Fam-Centered Nursing	
NURS303	Adult Health Nursing I	
NURS320	Pharm in Nursing	
NURS435	Pathological Proc for Nursing	
NURS400	Nursing Leadership	
NURS401	Community Health Nursing	
NURS402	Mental Health Nursing	
NURS403	Adult Health Nursing II	

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	General Psychology	3
TOTAL		14 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills	3
CHEM141	Bio-organic Chemistry	4
BIOL313	Human Physiology and Anatomy II	4
SOC100	Principles of Sociology	3
TOTAL		14 sem. hrs.

Third Semester

BIOL308	Microbiology	4
PSYC317	Developmental Psychology	3
CSCI104	Essential Computing I	3
NURS201	Nursing Assessment	3
HPE110	Health and Physical Conditioning	2
	HPE Activity	1
	(Either 2 cr. Health and 1 cr. Activity or 3 cr. combined Health & Activity)	
TOTAL		16 sem. hrs.

Fourth Semester

NUTR310	Nutrition	3
PSYC319	Psychology of Adulthood and Aging	3
NURS202	Fundamental Nursing Interventions	4
NURS435	Pathological Processes for Nursing	4
PHIL200	Introduction to Philosophy & Values	3
TOTAL		17 sem. hrs.

Fifth Semester*

NURS301	Mat/NB/Fam-Centered Nursing	5
NURS302	Ped & Fam-Centered Nursing	5
NURS320	Pharmacology in Nursing	3
	Core 2	3
TOTAL		16 sem. hrs.

Sixth Semester*

NURS303	Adult Health Nursing I	7
MATH260	Elements of Statistics	3
	Core 3	3
TOTAL		13 sem. hrs.

Seventh Semester*

NURS400	Nursing Leadership	3
NURS401	Community Health Nursing	5
NURS402	Mental Health Nursing	5
	Core: Artistic Expression	3
TOTAL		16 sem. hrs.

Eighth Semester*

NURS403	Adult Health Nursing II	7
	Distribution.: Humanities and Fine Arts	3
	Free Electives (strongly recommended: NURS and NUHL electives)	4
TOTAL		14 sem. hrs.

*These semesters are interchangeable.

ADMISSIONS REQUIREMENTS

Freshmen Students

1. Total SAT scores of at least 1000 or ACT score of 21.
2. Successful completion of chemistry, biology, geometry, and algebra I and II at the high school level.
3. Upper 2/5ths of high school graduating class.

PROGRESSION REQUIREMENTS FOR NURSING MAJORS

In order to progress in the nursing program, students are required to meet the following requirements. (*These requirements MUST be submitted by AUGUST 15 in order to attend any nursing courses with a clinical component.) 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.

At the beginning of the sophomore year

1. A grade point average of 2.75 or above.
2. Completion of all prerequisite courses for sophomore level nursing courses.
3. A minimum "C" grade in BIOL312, BIOL313, CHEM140, CHEM141.
4. Completion of all health requirements.*
5. Proof of malpractice insurance coverage, criminal history and child abuse clearance.*
6. CPR certification.*

At the end of the fall semester, sophomore year, spring semester sophomore year

1. A minimum "C" grade in each nursing course.

At the beginning of the junior year

1. A grade point average of 2.75 or above.
2. Completion of all prerequisite courses for junior level nursing course.
3. A minimum "C" grade in BIOL318.
4. Completion of all health requirements.*
5. Proof of malpractice insurance coverage, criminal history and child abuse clearance.*
6. CPR certification.*

At the end of the fall semester, junior year, spring semester, junior year

1. A minimum "C" grade in each nursing course.

At the beginning of the senior year

1. A grade point average of 2.75 or above.
2. Completion of all prerequisite courses for senior level nursing courses.
3. Completion of all health requirements.*
4. Proof of malpractice insurance coverage, criminal history, child abuse clearance.*
5. CPR certification.*

At the end of the fall semester, senior year, spring semester, senior year

1. A minimum "C" grade in each nursing course.

Graduation requirements

1. Completion of 120 semester hours.
2. Completion of the last 30 semester hours on the Edinboro University campus (residency requirement).
3. A grade point average of at least 2.75.

Bachelor of Science in Nursing Degree (B.S.N.)

This program is designed for individuals with previous academic preparation to complete a Bachelor of Science in Nursing. Previous academic preparation includes a 4-year degree in another field (Innovative Nursing Program) or a 2-year degree in Nursing (RN-BSN Nursing Program).

Innovative Nursing Program

The Innovative Nursing program is for individuals who already have a baccalaureate degree (in any area). All credits from the first baccalaureate degree are accepted as part of this program. Students, therefore, do not have to complete General Education requirements.

The program can be completed in three academic semester of full time study: fall semester, spring semester and fall semester. Upon completion of the program, graduates receive a Bachelor of Science in Nursing (BSN) degree and are eligible to write the NCLEX Examination for licensure as a Registered Nurse.

The program is an intense version of the nursing courses offered in the regular four year baccalaureate program and students have comparable learning experiences in the classroom and the clinical settings. Students are expected to read extensively for background information and participate in independent learning experiences in the Nursing Labs.

The intensive learning experiences require a commitment on the part of the students. It is not recommended that students work while classes are in session.

Registered nurses who have a non-nursing baccalaureate degree can apply for the Innovative Nursing Program for second baccalaureate students. If accepted, the must take what would be comparable to the senior level of the regular nursing curriculum or those courses offered during the second fall session.

PROGRAM OF STUDY**Fall Semester**

NURS320	Pharmacotherapeutics	3
NURS435	Pathophysiological Processes	4
NURS455	Fundamentals of Nursing	8
Total		15 sem. hrs.

Spring Semester

NUTR310	Nutrition	3
NURS461	Mat/Newborn/Family Centered Nursing	4
NURS464	Pediatrics	4
NURS467	Adult Health Nursing I	7
Total		18 sem. hrs.

Fall Semester

NURS400	Nursing Leadership	3
NURS415	Understanding Nursing Research	3
NURS468	Mental Health Nursing	4
NURS471	Community Health Nursing	4
NURS474	Adult Health Nursing II	4

TOTAL 18 sem.hrs.

TOTAL 51 sem.hrs.

ADMISSION REQUIREMENTS

1. Baccalaureate degree from a regionally accredited institution.
2. Grade point average of 2.75 upon completion of the first baccalaureate degree, with a preference for a 3.0 or higher.
3. Interview with Nursing faculty.
4. Successful completion of the following college level courses with a minimum grade of "C". Human Anatomy and Physiology 1 and 2, statistics, principles/elements course in chemistry with a lab.

PROGRESSION REQUIREMENTS

1. Maintenance of a 2.75 grade point average.
2. "C" or higher grade in all nursing courses.
3. CPR certification.
4. Proof of malpractice insurance.
5. Criminal history and child abuse clearance.
6. Completion of all health requirements.

GRADUATION REQUIREMENTS

1. Completion of all nursing and related courses.
2. Minimum of 2.75 grade point average.

Online RN-BSN Nursing Program

The RN-BSN Nursing program provides the necessary coursework for an RN with a 2-year degree to complete a Bachelor of Science in Nursing. After the prerequisites are fulfilled, the coursework can be completed in 2 years. Courses will be offered primarily online.

PROGRAM OF STUDY**First year****Fall Semester**

ENGL102	Spec Coll Writ/Research	3
NURS406	Role of the Prof Nurse	3
CSCI104	Essential Computing 1	3
	HPE Health & Phys Ed	3
SOC100	Principles of Sociology	3

Spring Semester

PHIL200*	Intro to Philosophy & Values	3
NUTR310	Nutrition	3
CORE 3	American Civilization	3
NURS407	Trends & Issues in Prof Nursing	3

*PHIL240 may be substituted PHIL200

Summer Courses

PSYC317	Development Psychology	3
PSYC319	Psychology of Aging	3

Second year**Fall Semester**

NURS408	Nursing Ldrshp/Mgmt	3
NURS409	Public Health Nursing	4
MATH260	Elements of Statistics	3
CORE 1	Artistic Expression	3

Spring Semester

CORE 2	World Civilization	3
NURS415	Understanding Nursing Research	3
DIST 1	Humanities/Fine Arts	3
HPE	Health & Phys Ed.	3

Forty(40) credits for (NURS 202, 301, 302, 303, 320, 402, 403, 435) will be awarded following successful completion of NURS 409 as outlined in the PA Articulation Model.

Nursing Major (40 articulation)	56 credits
Required supporting courses	16 credits
General Education	48 credits
	120 credits

ADMISSIONS PRE-REQUISITES – 25 CREDITS

BIOL312	Human Physiology & Anatomy I	4
BIOL313	Human Physiology & Anatomy II	4
BIOL318	Microbiology	4
CHEM140	General Chemistry	4
ENGL101	College Writing Skills	3
MATH104	Finite Math	3
PSYC101	General Psychology	3

ADMISSIONS REQUIREMENTS**Admission to this program is based upon the following criteria:**

1. Proof of graduation from an approved RN program.
2. Proof of a current RN licensure.
3. Attain a grade point average of 2.75 or greater in the pre-licensure program.
4. A minimum grade of "C" in all Biology and Chemistry admissions prerequisites.
5. Official copies of transcripts from high school and all post-secondary schools attended.
6. The above admissions prerequisites must be completed prior to the start of the program.
7. Internet computer access. Specific requirements can be found at www.euponline.com.

PROGRESSION REQUIREMENTS

1. Grade point average of 2.75 or above.
2. Completion of all pre-requisite courses.
3. A minimum "C" grade is required in all nursing and science courses.

GRADUATION REQUIREMENTS

1. Completion of 120 semester hours, 30 of the last 45 semester hours taken at Edinboro University. Issues will be handled on an individual bases with the student advisor's input.
2. Minimum of 2.75 grade point average.

ADVANCED PLACEMENT FOR REGISTERED NURSES

Provision for registered nurse (RN) students to enter the baccalaureate program in nursing at Edinboro University is based on the Mission Statement of the University as well as the philosophy of the nursing faculty. Opportunity for educational mobility is also compatible with stances of the American Nurses' Association, National League for Nursing and the Commission on collegiate Nursing Education.

The faculty believes that RN's are motivated and bring previous education and experience as a foundation for baccalaureate education. Students are encouraged to capitalize on this motivation and background to achieve as much advanced standing as possible. Optimizing advanced standing permits the student greater freedom in the completion of non-nursing courses.

Credit is awarded to RN's who have graduated within the last three years or worked 1,000 hours in nursing during the last three years. Credits awarded for articulation are considered transfer credits. Challenge exams courses taken at

Edinboro are counted towards Edinboro University of Pennsylvania credit. Courses taken at Edinboro count toward the residency requirement that 30 of the last 45 semester hours be completed in courses scheduled by Edinboro University. Issues will be handled on an individual bases with the student advisor's input. Transfer credits do not count toward those credits that fulfill the residency requirement.

BSN in Contemporary Nursing Issues for Foreign-Educated Nurses

The Nursing Department sees the institution of the BSN in Contemporary Nursing Issues for Foreign-Educated Nurses track as a way of addressing staffing problems currently being experienced by the U.S. health care system, while at the same time participating in the EUP mission of serving and leading as active citizens of our global society through collaborative learning. Through collaboration with foreign universities, we hope to become internationally recognized for our innovation, leadership, and commitment to excellence in nursing education.

The BSN in Contemporary Nursing Issues for Foreign-Educated Nurses is for individuals who have already earned a BSN in their native country and have already passed the NCLEX-RN licensure exam. Students, therefore, do not have to complete General Education requirements. The program is designed to be completed in three semesters: spring, summer, and fall.

The program begins with an intense immersion into the English language, along with courses in Medical Terminology and Intercultural Communications to develop communication skills.

Nursing courses will teach students patient care as delivered in American health care systems. They will also be enrolled in classes with traditional four-year nursing students that will emphasize current issues in health care. These classes will give students the opportunity to exchange cultural practices that will promote diversity.

Upon completion of the program, these nurses will seek employment in and assimilate to the American health care system.

PROGRAM OF STUDY**First Semester**

ENGL120	Medical Terminology	3 credits
COMM220	Intercultural Communication	3 credits
NURS406	Role of the Professional Nurse	3 credits
NURS407	Trends and Issues in Professional Nursing	3 credits
NUTR310	Nutrition	3 credits
	Total	15 credits

Second Semester

NURS320	Pharmacotherapeutics in Nursing	3 credits
NUHL100	Contemporary Women's Health	3 credits
NUHL500	End-of Life Care	3 credits
NURS408	Nursing Leadership and Management	3 credits
	Total	12 credits

Third Semester

COMM320	Health Communications	3 credits
NURS409	Public Health Nursing	4 credits
NURS415	Understanding Nursing Research	3 credits
NUHL505	Gerontology and the Healthcare Professional	2 credits
	Total	12 credits
	Total	39 credits

ADMISSION REQUIREMENTS

1. Baccalaureate degree in nursing from a non-U.S. institution
2. Grade point average of 2.75 (or equivalent) from first baccalaureate degree
3. Chemistry with a lab and statistics at the college level with a minimum grade of "C".
4. Passed the NCLEX-RN licensure examination Transcripts will be screened to ensure that applicants meet or exceed the number of clinical hours required of traditional nursing students at Edinboro University.

PROGRESSION REQUIREMENTS

- Maintenance of a 2.75 grade point average
- "C" or higher grade in all NURS and NUHL courses
- CPR certification, proof of malpractice insurance, and completion of health requirements as required by public health agency

GRADUATION REQUIREMENTS

- Completion of all nursing and related courses.
- Minimum of 2.75 grade point average.

Organizational Studies Department

FACULTY: Gary Barbour, Sezai Demiral, Lance Hannes, Paul James Lisowski, LaTanya D. Smith

MISSION

The Department of Organizational Studies exists to create and disseminate knowledge about the nature of organizations. The department will offer general education courses which enhance student understanding of the importance of organizations in society.

The Department will offer a six course sequence for prospective Entrepreneurs. These courses are designed primarily for Liberal arts students. (See Course Descriptions)

ORST111	Starting a Business
ORST112	Financial Skills for Entrepreneurs
ORST113	Legal Aspects of Entrepreneurship
ORST114	Basic Marketing for the Entrepreneurship

All Entrepreneurship courses are not for General Education

Philosophy Department

FACULTY: Corbin H. Fowler, Karen H. Seubert, Stephen Sullivan, D. Elliott Wreh-Wilson

Philosophy is an excellent liberal arts major, a program that encourages intellectual, ethical, and aesthetic growth. Philosophy courses consider issues that range over the entire area of human concerns and interests. Also, philosophy is an excellent preparation for graduate study in many areas and for professional programs in law and theology.

In philosophy the most basic interpretations of reality and the deepest questions are carefully and rationally considered. The study of philosophy helps students learn to think clearly, to argue persuasively, to understand and evaluate basic values and beliefs, and to appreciate the great thinkers of world civilizations.

The BA in Philosophy requires thirty-six (36) credit hours. This provides thirty-six (36) credit hours of free electives.

Bachelor of Arts Degree

Philosophy

- | | |
|-------------------------------------|--------------|
| I. General Education Requirements | 48 sem. hrs. |
| II. Philosophy Major Requirements | 36 sem. hrs. |
| A. Core Philosophy Requirements (9) | |
| 1. Logic (3) | |
| PHIL327 Beginning Logic (3) or | |
| PHIL420 Logic (3) | |
| 2. HISTORY OF PHILOSOPHY (3) | |
| PHIL300 Ancient Philosophy (3) | |
| 3. VALUE THEORY (3) | |
| PHIL340 ETHICS (3) | |
| B. CONCENTRATION | |
| (One of the following tracks:) | |
| 1. TRADITIONAL PHILOSOPHY TRACK | 27 sem. hrs. |
| a. HISTORY OF PHILOSOPHY (3) | |
| PHIL402 Modern Philosophy (3) | |

- | | |
|---|--|
| b. VALUE & EXPRESSION (6) | |
| (Two of the following:) | |
| PHIL342 Images of Humanity (3) | |
| PHIL344 Social Philosophy (3) | |
| PHIL345 Philosophy of Art (3) or | |
| PHIL346 Environmental Ethics (3) | |
| c. BEING and KNOWLEDGE (6) | |
| (Two of the following:) | |
| PHIL410 Metaphysics (3) | |
| PHIL411 Theory of Knowledge (3) or | |
| PHIL425 Philosophy of Science | |
| d. DIVERSITY (3) | |
| (One of the following:) | |
| PHIL310 Eastern Philosophy (3) | |
| PHIL311 World Religions (3) | |
| PHIL312 Black/White Appearance & Reality (3) | |
| PHIL318 Marxism (3) | |
| PHIL319 Existentialism (3) or | |
| WMST360 Philosophy and Feminism (3) | |
| e. PHILOSOPHY ELECTIVES (9) | |
| (Two of these courses must be at the 300 level or higher) | |

OR

- | | |
|--|---------------|
| 2. RELIGIOUS STUDIES TRACK | 27 sem. hrs. |
| a. HISTORY OF PHILOSOPHY | |
| PHIL301 Medieval Philosophy (3) | |
| b. HISTORY OF RELIGION (6) | |
| (Two of the following:) | |
| ENGL325 Literature of the Bible I (3) | |
| ENGL326 Literature of the Bible II (3) | |
| HIST310 Islam and the West (3) | |
| HIST334 History of Christianity (3) | |
| PHIL310 Eastern Philosophy (3) | |
| c. FUNDAMENTALS OF RELIGION (6) | |
| PHIL350 Philosophy of Religion (3) | |
| PHIL311 World Religions (3) | |
| d. RELIGION & CULTURE (3) | |
| (One of the following:) | |
| SOC343 Sociology of Religion (3) | |
| SOC375 Social Principles of Religion and Myth (3) | |
| ANTH315 Ritual, Magic and Myth (3) | |
| ENGL213 Language of the Goddess (3) | |
| ENGL388 Mythology (3) | |
| ENGL389 World Mythologies (3) | |
| HIST313 History of Witchcraft (3) | |
| e. RELIGION OR PHILOSOPHY ELECTIVES (9) | |
| (Three additional Religion or PHIL courses must be taken: Two must be at the 300-level or higher; one must be a Religion course. Religion courses that may be used to fulfill this requirement are:) | |
| ANTH315 Ritual, Magic and Myth (3) | |
| ENGL213 Language of the Goddess (3) | |
| ENGL325 Literature of the Bible I (3) | |
| ENGL326 Literature of the Bible II (3) | |
| ENGL388 Mythology (3) | |
| ENGL389 World Mythologies (3) | |
| HIST 310 Islam and the West (3) | |
| HIST313 History of Witchcraft (3) | |
| HIST334 History of Christianity (3) | |
| PHIL310 Eastern Philosophy (3) | |
| SOC343 Sociology of Religion (3) | |
| SOC375 Social Principles of Religion and Myth (3) | |
| III. FREE ELECTIVES | 36 sem. hrs. |
| TOTAL | 120 sem. hrs. |

BACHELOR OF ARTS – PHILOSOPHY (Suggested Eight-Semester Sequence)

First Semester

- | | |
|---------|--|
| ENGL101 | College Writing Skills (3) |
| MATH104 | Finite Math (3) |
| | Two General Education Core Courses (6) |
| | Health or Physical Education (1 or 2) |
| TOTAL | 13 or 14 sem. hrs. |

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
PHIL205	Critical Thinking or PHIL221 Beginning Logic (3)	
	Three General Education Core Courses (9)	
	Health or Physical Education (1 or 2)	
	TOTAL	16 or 17 sem. hrs.

Third Semester

PHIL300	Ancient Philosophy or PHIL302 Modern Philosophy (3)	
PHIL342	Images of Humanity or PHIL345 Philosophy of Art or Social Philosophy or	
PHIL344	Environmental Ethics (3)	
PHIL346	Two General Education Core Courses (6)	
	One General Education Computer Competency Course (3)	
	TOTAL	15 sem. hrs.

Fourth Semester

PHIL300	Ancient Philosophy	
	Philosophy Diversity Course (3)	
	Three General Education Distribution Courses (9)	
	TOTAL	15 sem. hrs.

Fifth Semester

PHIL340	Ethics (3)	
PHIL420	Logic (3)	
PHIL410	Metaphysics or PHIL411 Theory of Knowledge or	
PHIL425	Philosophy of Science (3)	
	One General Education Distribution Course (3)	
	One Free Elective (3)	
	TOTAL	15 sem. hrs.

Sixth Semester

PHIL402	Modern Philosophy (3)	
PHIL410	Metaphysics or PHIL411 Theory of Knowledge or	
PHIL425	Philosophy of Science (3)	
	One Philosophy Elective (3)	
	Three Free Electives (9)	
	TOTAL	15 sem. hrs.

Seventh Semester

PHIL410	Metaphysics or PHIL411 Theory of Knowledge or	
PHIL425	Philosophy of Science (3)	
	One Philosophy Elective (3)	
	Three Free Electives (9)	
	TOTAL	15 sem. hrs.

Eighth Semester

	One or Two Philosophy Electives (3 or 6)	
	Three or Four Free Electives (9 or 12)	
	TOTAL	15 sem. hrs.

Bachelor of Arts Degree Humanities

The Bachelor of Arts Degree in Humanities is designed for students who desire a wider background in the Arts and Humanities than is received by majoring in one of the disciplines.

The degree requires 21 semester hours of advanced courses (non-remedial courses other than those listed in the General Elective Skills or Core areas). These courses must include at least one course from at least five of the following seven disciplines: Art, Foreign Languages, English and Theatre Arts, History, Music, Philosophy, and Speech Communications.

I.	General Education Requirements	48 sem. hrs.
II.	Advanced Humanities	30 sem. hrs.
III.	Electives	42 sem. hrs.
	TOTAL	120 sem. hrs.

BACHELOR OF ARTS – HUMANITIES (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)	
MATH104	Finite Mathematics (3)	
	Advanced Art/Art History (3)	
	Core 1 (3)	
	Core 2 (3)	
	TOTAL	15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
CSCI104	Essential Computing I (3)	
	Advanced English/Theatre Arts (3)	
	Core 3 (3)	
	HPE Elective (3)	
	TOTAL	15 sem. hrs.

Third Semester

	Advanced Foreign Languages (3)	
	Distribution 1 (3)	
	Distribution 2 (3)	
	Core 4 (3)	
	Core 6 (3)	
	TOTAL	15 sem. hrs.

Fourth Semester

	Advanced History (3)	
	Core 5 (3)	
	Distribution 1 (3)	
	Distribution 3 (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.

Fifth Semester

	Advanced Music (3)	
	Advanced Philosophy (3)	
	Core 7 (3)	
	Free Elective (6)	
	TOTAL	15 sem. hrs.

Sixth Semester

	Advanced Speech Communications (3)	
	Advanced Humanities (3)	
	Free Electives (9)	
	TOTAL	15 sem. hrs.

Seventh Semester

	Advanced Humanities (3)	
	Advanced Humanities (3)	
	Free Electives (9)	
	TOTAL	15 sem. hrs.

Eighth Semester

	Free Electives (15)	
	TOTAL	15 sem. hrs.

Associate of Arts Degree

Liberal Studies

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

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

CURRICULUM

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

I. General Education	30 sem. hrs.
A. ENGL101 College Writing Skills	3 sem. hrs.
B. One approved course from each Core category (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity/ Social Pluralism, Ethics, and Science and Technology)	21 sem. hrs.
C. One approved course each from two different Distribution categories (Arts and Humanities, Natural Science and Mathematics, and Behavioral and Social Sciences)	6 sem. hrs.
II. Specialized Field	
Track A: Any University-approved minor	15-24 sem. hrs.
Track B: At least one advanced course from four of seven advance humanities disciplines (Art, English and Theatre Arts, Foreign Languages, History, Music, Phi- losophy, or Speech Communications).	
III. Electives	6-15 sem. hrs.
To be chosen in close consultation with the program advisor.	
TOTAL	60 sem. hrs.

**ASSOCIATE OF ARTS – LIBERAL STUDIES
(Suggested Four-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)	
	Core (3)	
	Core (3)	
	Core (3)	
TOTAL		12 sem. hrs.

Second Semester

	Core (3)	
	Core (3)	
	Core (3)	
	Free Elective (3)	
	Distribution (3)	
TOTAL		15 sem. hrs.

Third Semester

	Core (3)	
	Distribution (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
TOTAL		15 sem. hrs.

Fourth Semester

	Select one University approved minor or	
	Select six advanced humanities courses spread over four approved disci- plines	
TOTAL		18 sem. hrs.

Physics and Technology Department

FACULTY: Karim Hossain, James R. Kirk, Peter Kuvshnikov, James C. LoPresto, Richard J. Lloyd, John A. Polo

The Department of Physics and Technology offers instruction in astronomy, electronics, engineering, physics, and manufacturing engineering technology. Its offices, classrooms, laboratories and observatory are located in Hendricks Hall and Cooper Hall of Science. The department offers three degree programs and three academic minors.

- The Bachelor of Arts in Physics has three separate tracks:

- The Theoretical Track is intended for those who wish to pursue graduate work in physics or closely related sciences following graduation or for those who would prefer to go directly into industry or business.
 - The Liberal Arts Track is offered for students who wish a very broad, extremely flexible program in the sciences and math which can be used in such areas as education, business, law, and medicine.
 - The 3/2 Engineering Track offers three years of study at Edinboro in basic science, math, and introductory engineering followed by two years of study at one of the cooperating universities (Penn State, University of Pittsburgh, Case Western Reserve University). The student receives both an Edinboro degree and an engineering degree from the cooperating university.
- Research at Penn State University (University Park): Under a newly created innovative agreement between Penn State University and Edinboro University, students in the BA physics program at Edinboro are eligible, upon recommendation from the department, for summer research opportunities in engineering science and mechanics at Penn State University. These are paid positions intended to provide valuable experience for Edinboro students that may be interested in engineering science. The cooperative arrangement between the universities also allows for the possible transfer of up to six (6) credits from courses taken at Edinboro University toward a master's degree for participation in summer research.
 - The Bachelor of Arts degree in Natural Science and Mathematics is offered for students who wish a very broad, extremely flexible program in the sciences and mathematics which can be used as the foundation of a very individualized program of study.
 - The Bachelor of Science degree in Secondary Education leading to certification in Physics is offered by the Department of Educational Services with the cooperation of the Department of Physics and Technology.
 - 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.
 - Students majoring in other areas may choose to complete an academic minor in Astronomy, Physics or Applied Physics.

*Students choosing to major in the area of Physics will note that there is much similarity in the first several courses in Mathematics, Chemistry and Physics required in the various programs.

Students pursuing the Bachelor of Arts degree are encouraged to elect a foreign language as part of their general education requirement.

Careful planning and consultation with academic advisors will often allow the choice of a specific program to be deferred into the sophomore year.

**Associate of Engineering Technology
Degree****Manufacturing Engineering Technology**

- General Education Requirements 15 sem. hrs.
This degree program contains a unique, prescriptive set of general education requirements. Student must consult with their academic advisors regarding the required general education program.
- Specialization in Manufacturing Engineering Technology 16 sem. hrs.

MFGT100	Manufacturing Processes (4)
MFGT105	Engineering Materials (3)
MFGT225	Statistics and Strengths of Materials (3)
MFGT302	Computer Aided Drafting (3)
MFGT	A Tool Design Course (3)*
- Related Course Requirements 23 sem. hrs.

MATH105	College Algebra (3)
MATH106	Trigonometry (3)
MATH260	Elements of Statistics (3)
	OR
CSCI	An Approved Programming Course (3)
ENGR201	Engineering Graphics & Design (3)
PHYS201	Physics I (4)

104/Curricula and Organization

PHYS202	Physics II (4)		
	English/Communication Course (3)		
IV. MET Electives**		10 sem. hrs.	
	TOTAL	64 sem. hrs.	

* Select from MFGT309, MFGT310

** Select from MFGT201, MFGT215, MFGT306, MFGT309, MFGT310, MFGT311, MFGT315, MFGT320, MFGT360, MFGT370, MFGT375, MFGT404, MFGT405, MFGT410, MFGT420, MFGT435, PHYS311, PHYS312.

**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)		
ENGL101	College Writing Skills (3)		
MATH105	College Algebra (3)		
	TOTAL	16 sem. hrs.	

Second Semester

MFGT225	Statics and Strengths of Materials (3)		
MFGT302	Computer Aided Drafting (3)		
MATH106	Trigonometry (3)		
	General Education Elective (3)		
	MET Elective (3)		
	TOTAL	15 sem. hrs.	

Third Semester

PHYS201	Physics I (4)		
MATH260	Elements of Statistics or Approved Programming Course (3)		
	English/Communications Course (3)		
	MET Electives (3)		
	General Education Elective (3)		
	TOTAL	16 sem. hrs.	

Fourth Semester

PHYS202	Physics II (4)		
	A Tool Design Course (3)		
	MET Elective (4)		
	General Education Electives (6)		
	TOTAL	17 sem. hrs.	

Bachelor of Arts Degree

Physics

THEORETICAL TRACK

I.	General Education Requirements	52 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	45/46 sem. hrs.
	PHYS150	Physics Orientation (3)
	PHYS305	Classical Physics Lab (2) or PHYS405 Modern Physics Lab (2)
	PHYS312	Technical Electronics II (4) or PHYS313 Digital Electronics (3)
	PHYS320	University Physics I (4)
	PHYS321	University Physics II (4)
	PHYS322	Physical Measurements I(1)
	PHYS323	Physical Measurements II (1)
	PHYS325	Introduction to Modern Physics (3)
	ENGR303	Engineering Statics (3)
	ENGR304	Engineering Dynamics (3)
	PHYS430	Electricity and Magnetism I (3)
	PHYS441	Thermal Physics (3)

PHYS453	Quantum Physics (3)	
PHYS449	Mathematical Methods in Physics (3)	
	Advanced Physics Electives (6) - Choose from PHYS490-493, 496, 497, 410, 420, 421, 431	
III.	Required Supporting Courses	26 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)
IV.	Electives to total 120 semester hours	

**BACHELOR OF ARTS – PHYSICS/THEORETICAL TRACK
(Suggested Eight-Semester Sequence)**

First Semester

PHYS150	Physics Orientation (3)		
MATH107	Pre-Calculus (4)		
ENGL101	College Writing Skills (3)		
	General Education Electives (6)		
	TOTAL	16 sem. hrs.	

Second Semester

PHYS320	University Physics I (4)		
MATH211	Calculus I (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
PHYS322	Physical Measurements Lab I (1)		
	General Education Electives (3)		
	TOTAL	15 sem. hrs.	

Third Semester

PHYS321	University Physics II (4)		
MATH212	Calculus II (4)		
ENGR303	Engineering Statics (3)		
PHYS323	Physical Measurements Lab II (1)		
CSCI130	Principles of Programming I (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

PHYS325	Modern Physics (3)		
MATH311	Calculus III (4)		
ENGR304	Engineering Dynamics (3)		
	General Education (6)		
	TOTAL	16 sem. hrs.	

Fifth Semester

MATH317	Differential Equations (3)		
CHEM240	Principles of Chemistry I (4)		
	Advanced Physics Course (6)		
	General Education (3)		
	TOTAL	16 sem. hrs.	

Sixth Semester

PHYS449	Math. Methods of Phys. (3)		
CHEM241	Principles of Chemistry II (4)		
	Science or Math Elective (3)		
	Minor Program Elective (3)		
	TOTAL	13 sem. hrs.	

Seventh Semester

	Advanced Physics Courses (3)		
	Science or Math Elective (3)		
	HPE Lecture (3)		
	Minor Program Elective 2 (5)		
	TOTAL	14 sem. hrs.	

Eighth Semester

	Advanced Physics Course (3)		
	General Education 2 (5)		
	Minor Program Electives 2 (7)		
	TOTAL	15 sem. hrs.	

LIBERAL ARTS TRACK

I. General Education Requirements	51 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	40 sem. hrs.
PHYS150 Physics Orientation (3)	
PHYS305/404/405 Adv. Lab II (2)	
PHYS312 Electronics (4)	
PHYS320 University Physics I (4)	
PHYS321 University Physics II (4)	
PHYS322 Physical Measurements I(1)	
PHYS323 Physical Measurements II (1)	
PHYS325 Introduction to Modern Physics (3)	
Three of the five courses	
PHYS420 Mechanics I (3)	
PHYS430 Electricity and Magnetism I (3)	
PHYS441 Thermal Physics (3)	
PHYS453 Quantum Physics (3)	
PHYS449 Mathematical Methods in Physics (3)	
III. Required Supporting Courses	
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)	
Science and Math Electives (6)	
IV. Electives	29 sem. hrs.

BACHELOR OF ARTS – PHYSICS/LIBERAL ARTS TRACK
(Suggested Eight-Semester Sequence)**First Semester**

PHYS150 Physics Orientation (3)	
MATH107 Pre-Calculus (4)	
ENGL101 College Writing Skills (3)	
General Education (6)	
TOTAL	16 sem. hrs.

Second Semester

PHYS320 University Physics I (4)	
PHYS322 Physical Measurements Laboratory I (1)	
MATH211 Calculus I (4)	
ENGL102 Specialized College Writing and Research Skills (3)	
General Education (3)	
TOTAL	15 sem. hrs.

Third Semester

PHYS321 University Physics II (4)	
PHYS323 Physical Measurements Laboratory II (1)	
MATH212 Calculus II (4)	
ENGR303 Eng. Statics (3)	
General Education (3)	
TOTAL	15 sem. hrs.

Fourth Semester

PHYS325 Modern Physics (3)	
MATH311 Calculus III (4)	
ENGR304 Engineering Dynamics (3)	
General Education (3)	
Minor Program Elective (3)	
TOTAL	16 sem. hrs.

Fifth Semester

MATH317 Introduction to Differential Equations (3)	
CHEM240 Principles of Chemistry I (4)	
Advanced Physics Course (3)	
General Education (3)	
Minor Program Elective (3)	
TOTAL	16 sem. hrs.

Sixth Semester

PHYS449 Mathematical Methods of Physics (3)	
CHEM241 Principles of Chemistry II (4)	
Science or Math Elective (3)	
Minor Program Elective (3)	
TOTAL	13 sem. hrs.

Seventh Semester

Advanced Physics Course (5)	
HPE Lecture/Activity (3)	
General Education (3)	
Elective (3)	
TOTAL	14 sem. hrs.

Eighth Semester

Advanced Physics Course (6)	
General Education (8)	
TOTAL	14 sem. hrs.

3/2 ENGINEERING TRACK

I. General Education Requirements	43 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	36/37 sem. hrs.
PHYS150 Physics Orientation (3)	
PHYS320 University Physics I (4)	
PHYS321 University Physics II (4)	
PHYS322 Physical Measurements I(1)	
PHYS323 Physical Measurements II (1)	
PHYS325 Introduction to Modern Physics (3)	
ENGR201 Engineering Graphics (3)	
ENGR303 Engineering Statics (3)	
ENGR304 Engineering Dynamics (3)	
PHYS312 Technical Electronics II (4) or	
PHYS313 Digital Electronics (3)	
PHYS449 Mathematical Methods in Physics (3)	
Advanced Physics Elective (300 level or higher) (5)	
III. Required Supporting Courses	35 sem. hrs.
MATH211 Analytical Geometry and Calculus I (4)	
MATH212 Analytical Geometry and Calculus II (4)	
MATH311 Analytical Geometry and Calculus III (4)	
MATH275 Matrix Algebra (3)	
MATH317 Introduction to Differential Equations (3)	
COMM107 Fundamentals of Speech (3)	
CHEM240 Principles of Chemistry I (4)	
CHEM241 Principles of Chemistry II (4)	
CSC1130 Principles of Programming (3)	
ECON225 Principles of Economics/Macro (3) or	
ECON220 Principles of Economics/Micro (3)	
IV. Electives	3 sem. hrs.
TOTAL	96 sem. hrs.
V. Completion of Engineering Degree	

BACHELOR OF ARTS – PHYSICS/COOPERATIVE ENGINEERING TRACK
(Suggested Six-Semester Sequence)**First Semester**

PHYS150 Physics Orientation (3)	
MATH107 Pre-Calculus (4)	
COMM107 Public Speaking (3)	
ENGL101 College Writing Skills (3)	
General Education (3)	
TOTAL	16 sem. hrs.

Second Semester

PHYS320 University Physics I (4)	
MATH211 Calculus I (4)	
PHYS322 Phys. Meas. Lab (1)	
ENGL102 Specialized College Writing and Research Skills (3)	
General Education (3)	
TOTAL	15 sem. hrs.

Third Semester

PHYS321	University Physics II (4)		
MATH212	Calculus II (4)		
CHEM240	Principles of Chemistry I (4)		
PHYS323	Physical Measurements Lab II (1)		
	General Education (3)		
		TOTAL	16 sem. hrs.

Fourth Semester

PHYS325	Modern Physics (3)		
MATH311	Calculus III (4)		
CHEM241	Principles of Chemistry II (4)		
ENGR201	Engineering Graphics and Design (3)		
PHYS312 or 313	Electronics (4 or 3)		
		TOTAL	17 or 18 sem. hrs.

Fifth Semester

ENGR303	Engineering Statics (3)		
MATH317	Introduction to Differential Equations (3)		
MATH275	Linear Algebra (3)		
ECON225	Principles of Macroeconomics (3) or		
ECON220	Principles of Microeconomics (3)		
	HPE Lecture (2)		
	Adv. Physics Course (2)		
		TOTAL	16 sem. hrs.

Sixth Semester

ENGR304	Engineering Dynamics (3)		
PHYS449	Mathematical Methods in Physics (3)		
CSCI130	Principles of Programming I (3)		
	General Education (3)		
	HPE Activity (1)		
	Advanced Physics Course (3)		
		TOTAL	16 sem. hrs.

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 School of Engineering of the University of Pittsburgh have established cooperative educational programs in liberal arts and engineering. Three years or the equivalent will be spent by an enrolled student at Edinboro University where he/she will study liberal arts subjects along with basic mathematics, physics, chemistry and introductory engineering courses. After satisfactory completion of the Edinboro phase of the program and recommendation of the director of the 3/2 Engineering Program, he/she will spend two years or the equivalent at one of the cooperative universities, where he/she will complete the engineering course requirements as specified by that institution. Successful completion of this program will lead to an appropriate baccalaureate degree from each institution. Since the normal progression through the cooperative program will consist of 3 years of study at Edinboro and 2 years of study of the cooperating university, the program is called a 3/2 Program in Engineering. Case Western Reserve University refers to their program as a Binary Program, but allows transfer into curricula other than engineering. This cooperative program was created to fulfill the following objectives:

1. To provide cooperatively a combination of liberal arts education of mathematics, science, humanities and social sciences, followed by a professional orientation in engineering that provides the student a unique preparation for a career.

2. To allow a student whose choice of engineering as a career is not yet definite to measure his/her aptitudes and interests in fundamental courses in both the arts and the sciences.
3. To provide a student with a planned sequence of liberal arts courses which, if completed successfully, would gain him/her acceptance at an engineering school at times when applications to such schools might exceed their capacity.
4. To allow qualified students to receive both a liberal and technical education at relatively low costs; and, in doing so, provide the Commonwealth and the Nation with an ample number of well-educated engineers.

Counseling, admission and the transfer of students in this 3-2 cooperative program are implemented through the following procedures and policies:

1. Application for admission to the program will be made to Edinboro University where the candidate will be subject to the admission requirements of this institution.
2. A student will indicate his/her desire to follow the 3-2 program either at the time of his/her admission to Edinboro or early enough in his/her program to permit him/her to complete all required prerequisite courses. Results from aptitude and achievement tests, records of scholastic achievement, and other pertinent information will be exchanged between institutions to aid both in guiding and counseling students and prospective students.
3. At the end of the second semester of the second year, a student applies to the 3/2 program director at Edinboro for recommendation for transfer by Edinboro University of Pennsylvania. Recommendation by Edinboro University will be made on the basis of satisfactory progress through the Edinboro component of the program and anticipated quality grade point average required of the cooperating engineering institution. Case-Western Reserve University and the Pennsylvania State University require a 3.0 grade point average for transfer. Penn State-Behrend College requires a minimum grade point average of 2.7 for transfer. The University of Pittsburgh requires a minimum grade point average of 2.5 to be considered. It is possible that individual programs within each of these universities will require a higher grade point average than what is stated here.
4. The individual student should request an application from the 3/2 program director at Edinboro or directly from the Admissions Office of the cooperating university of his/her choice in September of his/her third year at Edinboro. The request from the cooperating university should include the statement that the application is for the 3-2 program. The application should be submitted promptly and no later than November 30.
5. All information and correspondence pertaining to student enrollment or transfer in the 3-2 program will be channeled through the offices of the institutional representatives of the two universities involved in each transaction.
6. A student who meets the requirements for one of the following engineering curricula, and is recommended and accepted for transfer, will be eligible to enter the cooperating engineering school with the equivalent of first semester junior standing. However, some engineering departments may require summer attendance prior to the students first fall term at the cooperating university. Finally, Pennsylvania State University has implemented enrollment control procedures that precludes transfer into some engineering fields. Students should check with their advisor on which majors are under enrollment control.

Pennsylvania State University

Aerospace
Agricultural and Biological
Bioengineering
Ceramic Science
Chemical
Civil
Computer+
Electrical
Energy Engineering
Engineering Science*
Industrial
Mechanical
Mining
Petroleum and Natural Gas

+Available at Behrend College

Case-Western Reserve University

Applied Physics
Astronomy
Biomedical
Ceramics and Material Science
Chemical
Civil
Electrical
Fluid and Thermal
Mechanical and Aerospace
Polymer Science
Systems and Control

University of Pittsburgh

Chemical	Industrial
Civil	Materials Science
Electrical	Mechanical

* 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.

7. An entering student at Edinboro who plans to follow the 3/2 Engineering Program will be enrolled in the Bachelor of Arts Degree in Physics/Cooperative Engineering Track which will include the following course requirements to be taken at Edinboro University for transfer.

I. General Education Requirements 43 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 3/2 program director. The cooperating universities will accept for transfer credit in the areas of Arts, Humanities and Social and Behavioral Sciences those courses which are non-professional to the engineer and are not considered basic skill courses. Additional requirements appropriate to specific cooperating universities are as listed.

Case-Western Reserve University: A minimum of 24 semester hours in the Arts, Humanities and Social Sciences.

The Pennsylvania State University: A minimum of 18 semester hours, 6 in the Arts, 6 in the Humanities and 6 in the Social and Behavioral Sciences. A minimum of two 6 credit sequences. A sequence is defined as a set of sequential courses in one discipline in which the first course is introductory and succeeding courses are more advanced. A 9 credit sequence in one discipline may replace the two 6 credit sequences.

The University of Pittsburgh: One course in English Literature and one course in Philosophy from an approved list. Please see the advisor.

II. Required Courses 66 or 67 sem. hrs.

MATH211	Analytic Geometry and Calculus I (4)
MATH212	Analytic Geometry and Calculus II (4)
MATH311	Analytic Geometry and Calculus III (4)
MATH275	Linear Algebra I (3)
MATH317	Differential Equations (3)
CSCI130	Principles of Programming (3)*
PHYS150	Physics Orientation (3)
PHYS312	Technical Electronics II or PHYS313 Digital Electronics (4 or 3)
PHYS320	University Physics I (4)
PHYS321	University Physics II (4)
PHYS322	Physical Measurements Lab I (1)
PHYS323	Physical Measurements Lab II (1)
PHYS325	Introduction to Modern Physics (3)
PHYS449	Mathematical Methods in Physics (3)
CHEM240	Principles of Chemistry I (4)
CHEM241	Principles of Chemistry II (4)
ENGR201	Engineering Graphics & Design (3)
ENGR303	Engineering Statics (3)
ENGR304	Engineering Dynamics (3)
COMM107	Public Speaking (3)
ECON225	Macroeconomics (3)

* Other computer science courses dealing with languages suitable for engineering work may be substituted.

ADDITIONAL SPECIFIC ENGINEERING PROGRAM REQUIREMENTS

Within each cooperating university, the degree requirements vary from one engineering field to another. In any one specific field of engineering, the program requirements will vary from one university to another. Due to the wide variety of engineering program options available, the Edinboro student should work closely with their academic advisor and the 3/2 program director to guarantee the suitability of all courses for their intended engineering major and cooperating university.

INDUSTRIAL AND TRADES LEADERSHIP PROGRAM

The major purpose of the program is to provide individuals who have successfully completed requirements for a journeyman's certification, with sufficient general education and specialized instruction so that they may be prepared to assume leadership positions in trade and industrial settings. It is anticipated that individuals who successfully complete the program will enhance their supervisory and managerial skills for the industrial and technical crafts and trades. This kind of background should enable them to move into positions of greater responsibility in industry and trades.

Society appears to need leaders working in the industrial setting who have achieved broad education at the baccalaureate level along with apprentice training and work experience. A sizable group of individuals who either did not have the opportunity for a college education after completing high school or did not take advantage of such opportunities, will become acquainted with the academic community to the mutual benefit of themselves and higher education.

THE PROGRAM

The Bachelor of Science in Industrial and Trade Leadership Program consists of four portions:

- General Education
- Career Development
- Specialized Course Work
- Electives

The intent of the General Education and Open Electives portions of the program is to introduce the student to broad generalized areas of man's knowledge. Through them one is exposed to many diverse aspects of mankind's intellectual explorations.

The specialized course work provides considerable freedom in choosing those subjects which may be of greatest current and potential worth to the student in terms of career aspirations. Within this section, students choose courses from three areas, which deal with various facets of their management development. In addition, a required senior seminar integrates and "pulls together" knowledge and insights gained in previous portions of the programs, and bring them to bear on a variety of problem situations frequently encountered by those in leadership positions in trades and industry. Open electives provide opportunities for students to pursue additional work in the specialized areas and/or gain additional knowledge in the broad fields of general education.

Career development provides recognition for the successful completion of the requirements of journeyman's certification in selected certified trade or craft unions. It is thought that such educational programs and experiences appropriately contribute to the purposes of this degree.

Bachelor of Science Degree**Industrial and Trades Leadership**

- | | |
|--|---|
| I. General Education Requirements | 48 sem. hrs. |
| II. Career Development Component | +27 sem. hrs. |
| III. Specialized Course Work | 27 sem. hrs. |
| A. The Leader and the Work Environment | 18 sem. hrs. |
| 1. One course in oral/written communication skills from the following: | |
| COMM312 | Group Discussion (3)* |
| COMM316 | Parliamentary Procedure (3) |
| COMM321 | Non-Verbal Communication (3)* |
| COMM325 | Interpersonal Communication (3) |
| COMM364 | Introduction to Mass Media (3)* |
| COMM365 | Communications in Public Relations (3)* |
| COMM430 | Organizational Communication (3)* |
| ENGL390 | Business Writing (3)* |
| ENGL404 | Technical Writing (3)* |
| 2. One course in the area of behavioral patterns from the following: | |
| PSYC301 | Psychology of Adjustment (3)* |
| PSYC350 | Drugs and Human Behavior (3) |
| PSYC319 | Psychology of Adulthood and Aging (3) |
| PSYC370 | Psychology of Personality (3) |

PSYC390	Social Psychology (3)*	
PSYC470	Industrial Psychology (3)*	
SOC347	Industrial Sociology (3)*	
SOC370	Social Gerontology (3)*	
SOC390	Sociology of the Life Cycle (3)	
3.	One additional course from 1 or 2 above.	
4.	One course in the area of Computer Science/Computer Technology/Electronics from the following:	
CSCI117	Programming in BASIC (3)	
MATH260	Elements of Statistics (3)	
PHYS311	Technical Electronics I (3)	
PHYS315	Introduction to Microprocessors (3)*	
MFGT201	Introduction to Quality Control (3)	
5.	One course from Economics/ Business/Public Administration from the following:	
ECON250	Contemporary Economic Problems (3)*	
ECON319	Intermediate Economic Theory-Macroeconomics (3)*	
ECON380	Managerial Economics (3)*	
ECON330	Labor Economics (3)*	
ECON331	Collective Bargaining (3)*	
MGMT300	Principles of Management (3)*	
MKTG300	Principles of Marketing I (3)*	
POLI306	Public Administration I (3)*	
6.	One course in the area of Safety Education/Criminal Justice/Fire Protection from the following:	
CRIM442	Security Systems (3)	
CRIM443	Arson Detection and Investigation (3)*	
SFTY353	Introduction to Safety Education (3)	
SFTY355	Principles of Accident Prevention (3)	
B.	The Leader and the Natural and Social Environment	6 sem. hrs.
1.	One course in the area of the natural environment from the following:	
GEOG145	Environmental Issues (3)	
GEOG245	Conservation of Natural Resources (3)	
GEOS104	Introduction to Earth Environment (non-lab) (3)	
BIOL100	Intro to Biology (3)	
BIOL316	Environmental Biology (3)	
2.	One course in the area of the social environment from the following:	
HIST315	History of Women in the U.S. (3)	
HIST366	U.S. Since 1945 (3)	
HIST368	History of American Labor (3)	
HIST377	American Urban Development (3)	
POLI305	Politics and the Environment (3)	
POLI322	Public Opinion and Propaganda (3)*	
POLI326	Interest Groups (3)*	
SOC207	Contemporary Social Problems (3)	
SOC326	Society and the Individual (3)*	
SOC364	Race and Ethnic Relations (3)*	
SOC366	Social Change (3)*	
C.	Research	3 sem. hrs.
	SSCI462	Senior Paper (3)
	The student will write a research paper demonstrating leadership capabilities learned in the study of the work environment.	
IV.	Free Electives	18 sem. hrs.
	TOTAL	120 sem. hrs.

* Note: Courses designated with an asterisk require completion of prerequisites either as general education requirements or as an elective.

+ The Career Development component provides academic credit to individuals who have completed requirements for journeyman's certification *or its equivalent* in selected trades or crafts and constitutes one-fourth of the degree program.

Journeyman's certification in selected trades or crafts is defined as those apprenticeable programs which require a minimum of four (4) years (8,000) hours of on-the-job training and a minimum of 576 hours of related instruction to supplement on-the-job training. Such training may be given in a classroom or through correspondence courses.

Equivalent training is defined as manual, mechanical or technical skills and knowledge obtained in on-the-job work experience and related instruction to supplement on-the-job training with a company which is not registered with the Pennsylvania Apprenticeship and Training Council Department of Labor and Industry. It further involves the development of skill which is not restricted in application to products of any one company, but which is broad enough to be applied in like occupations throughout an industry.

Criteria for Apprenticeable Occupations

An apprenticeable occupation is a skilled trade which possesses all of the following characteristics:

1. It is customarily learned in a practical way through a systematic structural program of on-the-job, supervised training.
2. It is clearly identified and commonly recognized throughout an industry.
3. It involves manual, mechanical or technical skills and knowledge which require a minimum of 8,000 hours of on-the-job work experience, not including the hours spent on related instruction.
4. It requires related instruction to supplement on-the-job training. Such instruction may be given in a classroom or through correspondence courses.
5. It involves the development of skill which is not restricted in application to products of any one company, but which is broad enough to be applied in like occupations throughout an industry.

BACHELOR OF SCIENCE – INDUSTRIAL AND TRADES LEADERSHIP (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)	
MATH104	Finite Mathematics (3)	
	Core (3)	
	Core (3)	
	HPE Elective (3)	
	TOTAL	15 sem. hrs.

Second Semester

	Section A – Oral/Written Communication Elective (3)	
	Section A – Behavioral Patterns Elective (3)	
	Core (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
	Distribution (3)	
	TOTAL	15 sem. hrs.

Third Semester

	Section A – Oral/Written Communication Elective (3)	
	Section A – Computer Science/Computer Technology/Electronics Elective (3)	
	Core (3)	
	Distribution (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.

Fourth Semester

CSCI104	Essential Computing I (3)	
	Section A – Economics/Business/Public Admin. Elective (3)	
	Section A – Safety Educ./Criminal Justice/Fire Prevention Elective (3)	
	Core (3)	
	Distribution (3)	
	TOTAL	15 sem. hrs.

TOTAL 15 sem. hrs.

Fifth Semester		Section B – Natural Environment Elective (3)	
		Section B – Social Environment Elective (3)	
		Core (3)	
		Core (3)	
		Distribution (3)	
		TOTAL	15 sem. hrs.
Sixth Semester			
SSCI462	Free Elective (3)		
	Senior Paper (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	18 sem. hrs.
Seventh Semester			
		TOTAL	15 sem. hrs.
Eighth Semester			
		TOTAL	15 sem. hrs.

Political Science and Criminal Justice Department

FACULTY: Max Azicri, Kevin Courtright, Ken Egbo, David A. Ferster, James D. Fisher, Gerry Gendlin, Bridget M. Jeffery, Elvage G. Murphy, George Richards, Delbert L. Rounds, E. Ernest Wood, Theodore Yeshion

The Department of Political Science and Criminal Justice offers degree programs in Political Science and Criminal Justice, and houses the University's Pre-Law Program.

THE POLITICAL SCIENCE PROGRAM

The Bachelor of Arts program in political science at Edinboro University prepares students for careers in all facets of the political system; graduate study in political science, law, or policy analysis; and responsible citizenship in a free society. While courses in the program focus on various aspects of politics, they individually and collectively emphasize close reading of texts, empirical and normative critical analysis, careful research, and effective oral and written communication.

Political science majors are required to take courses that expose them to the major fields of contemporary political science: comparative politics, American politics, international relations, political theory, and research methodology. Students further take several political science elective courses tailored to their specific interests and in consultation with their advisor. For example, students who have an interest in practicing law can take pre-law courses that fulfill requirements of the major. Students are also required to develop skills in statistical analysis and in a foreign language. Finally, students are given the option of earning academic credit toward their major by participating in a politics- or law-related internship.

Prospective students are encouraged to visit the Political Science and Criminal Justice Department's web site for more information on extracurricular activities (such as politics-and law-related student organizations), internship opportunities, job and graduate school placement, and political science program faculty.

THE CRIMINAL JUSTICE PROGRAM

The criminal justice system is an integral part of any society and offers persons with good character and proper academic preparation challenging and rewarding career opportunities. Proper training for the field requires analysis of the criminal justice system from multiple disciplinary perspectives (political, sociological, legal, psychological, historical, ethical, etc.). Students also benefit from practical training in techniques for preventing crime, investigating crime, and dealing with persons in the corrections system. Direct exposure to the field through a substantive internship rounds out a student's training and prepares the student for a transition to a successful career in criminal justice. Students at Edinboro may earn a Bachelor of Arts (B.A.) degree and/or an Associate of Arts (A.A.) degree in Criminal Justice.

Strengths of the criminal justice program at Edinboro include:

- Faculty members who possess wide-ranging academic expertise as well as significant real-world experience;
- A broad range of challenging courses that expose students to all facets of the criminal justice system and allow for in-depth training in a student's particular area of interest;
- An internship program with a long and successful record of placing students with a wide range of agencies;
- Active student organizations and exciting extracurricular activities for criminal justice students.

THE PRE-LAW PROGRAM

The pre-law program at Edinboro University helps students of any major develop the skills necessary for success in the profession of law, consistent with the recommendations of the American Bar Association. Countless Edinboro alumni are practicing attorneys, judges, and academics. A pre-law student who does not attend law school still receives training, advice, and experiences that will serve that student well in his or her chosen career.

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	48 sem. hrs.
	Students must take MATH 260 Elements of Statistics (3) for their Distribution 3 requirement.	
II.	Political Science Foundations	18 sem. hrs.
	POLI200 Introduction to Government (3)	
	POLI201 American Government (3)	
	POLI240 Introduction to Comparative Government (3)	
	POLI348 Introduction to International Politics (3)	
	POLI370 Political Thought I OR POLI372 Political Thought II (3)	
	POLI480 Research Methods (3)	
III.	Political Science Electives	21 sem. hrs.
	Twenty-one additional semester hours of 300+ level POLI courses	
IV.	Field Experience or Concentration	6 sem. hrs.
	POLI395 Internship in Political Science (6) OR Additional 300+ level POLI courses (6)	
V.	Foreign Language Requirement	6 sem. hrs.
	Six credits of foreign language courses of the same prefix; course numbers must be 101, 102, 201, or 202.	
VI.	Free Electives	21 sem. hrs.
TOTAL		120 sem. hrs.

BACHELOR OF ARTS – POLITICAL SCIENCE (Suggested Eight-Semester Sequence)

First Semester

POLI201	American Government (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Mathematics (3)	
	Core (3)	
	Core (3)	
TOTAL		15 sem. hrs.

Second Semester

POLI200	Introduction to Government (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
CSCI104	Essential Computing I (3)	
	Core/Free Elective (3)	
	Core/Free Elective (3)	
TOTAL		15 sem. hrs.

Third Semester

POLI240	Introduction to Comparative Government (3)	
POLI348	Introduction to International Politics (3)	
MATH260	Elements of Statistics (3)	
	Core/Distribution/Free Elective (3)	
	HPE Elective (3)	
TOTAL		15 sem. hrs.

Fourth Semester

POLI480	Research Methods (3)		
POLI370	Political Thought I (3)		
OR			
POLI372	Political Thought II (3)		
POLI300+	Political Science Elective (3)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	TOTAL	15 sem. hrs.	

Fifth Semester

POLI300+	Political Science Elective (3)		
POLI300+	Political Science Elective (3)		
	Foreign Language First Course (3)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

POLI300+	Political Science Elective (3)		
POLI300+	Political Science Elective (3)		
	Foreign Language Second Course (3)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	TOTAL	15 sem. hrs.	

Seventh Semester

POLI300+	Political Science Elective (3)		
POLI300+	Political Science Elective (3)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	TOTAL	15 sem. hrs.	

Eighth Semester

POLI395	Internship in Political Science (6)		
OR			
POLI 300+	Political Science Elective (6)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	Core/Distribution/Free Elective (3)		
	TOTAL	15 sem. hrs.	
	TOTAL	120 sem. hrs.	

Bachelor of Arts Degree

Criminal Justice

Students in the Bachelor of Arts in Criminal Justice program take 51 semester hours of major-specific courses in addition to general education and open elective courses. Their coursework is a combination of required courses; electives primarily in criminal justice but also in political science, sociology, psychology, and history; and an internship for academic credit or additional criminal justice courses.

Regarding required courses, the Department encourages students to take American Government, Introduction to Sociology, and Introduction to Criminal Justice during their first year; Introduction to Policing, Introduction to Corrections, and Prosecution and the Courts in their second year; and Criminology and the Seminar in Criminal Justice, a capstone course, in their third or fourth years. Elective courses in criminal justice are taken as appropriate from the student's second year to completion of the program. Elective courses examine in depth various facets of the criminal justice system.

After a student has completed 60 semester hours of work, he or she may apply with the University to conduct an internship for academic credit. Students who wish to conduct an internship for academic credit must hold a minimum 2.0 QPA overall and a 2.5 QPA in their major courses. Students are strongly encouraged to complete an internship if possible, and may earn up to 12 semester hours of credit toward the major for the internship. Students may alternatively take up to 12 semester hours of additional criminal justice courses.

Students must earn a C or higher in courses taken to fulfill the requirements of the criminal justice major.

I.	General Education Requirements		48 sem. hrs.
II.	Criminal Justice Requirements		18 sem. hrs.
	POLI201	American Government (3) (Counts as Core 3 course)	
	SOC100	Principles of Sociology (3) (Counts as Core 5 course)	
	CRIM100	Introduction to Criminal Justice (3)	
	CRIM330	Introduction to Policing (3)	
	CRIM310	Introduction to Corrections (3)	
	POLI365	Prosecution and the Courts (3)	
	SOC532	Criminology (3)	
	CRIM500	Seminar in Criminal Justice (3)	
III.	Criminal Justice Electives		21 sem. hrs.
	Take at least three semester hours each in categories A, B, and C.		
	The remaining nine semester hours may be fulfilled by any combination of courses from categories A-D.		
A.	Legal Aspects of Crime		
	CRIM462	Pennsylvania Criminal Code (3)	
	CRIM/POLI469	Criminal Procedure and Evidence (3)	
	POLI343	Law and Legal Systems (3)	
	POLI463	Civil Liberties (3)	
	POLI465	Constitutional Law (3)	
	POLI560	Jurisprudence (3)	
B.	Societal Influence on Crime and Delinquency		
	CRIM321	Organized Crime (3)	
	CRIM425	Ethics (3)	
	CRIM430	White Collar Crime (3)	
	CRIM475	Research Methods in C.J. (3)	
	HIST379	U.S. Police History (3)	
	POLI567	Politics of Crime (3)	
	PSYC350	Drugs and Human Behavior (3)	
	SOC335	Juvenile Delinquency (3)	
	SOC530	Sociology of Deviant Behavior (3)	
C.	Techniques of Dealing with Crime	3 sem. hrs.	
	CRIM340	Criminal Investigation (3)	
	CRIM355	Criminalistics (3)	
	CRIM370	Probation, Parole and Community Corrections (3)	
	CRIM380	Juvenile Justice (3)	
	CRIM435	Homeland Security (3)	
	CRIM440	Emergency Management (3)	
	CRIM442	Security Systems (3)	
	CRIM443	Arson Investigation (3)	
	CRIM450	Computer Crime and CJ (3)	
	CRIM465	Advanced Criminalistics (3)	
	CRIM470	Advanced Issues in Corrections (3)	
	CRIM480	Correctional Administration (3)	
	CRIM485	Financial Crimes Enforcement (3)	
D.	Additional Criminal Justice Electives		
	POLI306	Public Administration I (3)	
	POLI307	Public Administration II (3)	
	POLI490	Independent Study	
	Any other CRIM courses of 300+ level		
IV.	Field Experience or Concentration		12 sem. hrs.
	Twelve total semester hours must be earned in an internship, additional CRIM courses, or a combination of the two.		
	CRIM395	Internship in C.J.	
V.	Open Electives		21 sem. hrs.
	TOTAL		120 sem. hrs.

BACHELOR OF ARTS – CRIMINAL JUSTICE (Suggested Four-Year Sequence)

First Year

POLI201	American Government (3)		
CRIM200	Introduction to Criminal Justice (3)		
SOC100	Principles of Sociology (3)		
MATH104	Finite Mathematics (3)		
ENGL101	College Writing Skills (3)		
ENGL102	Writing/Research Skills (3)		
CSCI104	Essential Computing I (3)		
	HPE Elective (3)		
	General Education Core (3)		
	General Education Core (3)		
	TOTAL		30 sem. hrs.

Second Year

CRIM310	Introduction to Corrections (3)		
CRIM330	Introduction to Policing (3)		
POLI365	Prosecution and the Courts (3)		
CRIM300+	Criminal Justice Elective (3)		
CRIM300+	Criminal Justice Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	TOTAL	30 sem. hrs.	

Third Year

SOC532	Criminology (3)		
CRIM300+	Criminal Justice Elective (3)		
CRIM300+	Criminal Justice Elective (3)		
CRIM300+	Criminal Justice Elective (3)		
CRIM300+	Criminal Justice Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	TOTAL	30 sem. hrs.	

Fourth Year

CRIM500	Seminar in Criminal Justice (3)		
CRIM395	Internship in Criminal Justice AND/OR		
CRIM 300+	Criminal Justice Elective (1-12)		
CRIM 300+	Criminal Justice Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	Core/Distribution/Open Elective (3)		
	TOTAL	30 sem. hrs.	
	TOTAL	120 sem. hrs.	

Associate of Arts Degree

Criminal Justice

The Associate of Arts degree in Criminal Justice is a 60-credit, two-year program that qualifies students to work in all facets of the criminal justice field. Students receive comprehensive exposure to the various components of the criminal justice system. Students also receive training in specific criminal justice topics. Individually and collectively, criminal justice courses at Edinboro University increase a student's knowledge, analytical and communication skills, and marketability.

What is the difference between the two-year Associate's degree program and the four-year Bachelor's degree program in Criminal Justice? Compared to the Bachelor of Arts major in Criminal Justice, the Associate's degree requires fewer general education courses, fewer open electives, and fewer courses in the major. In particular, Associate degree students in Criminal Justice do not take CRIM 500 (Seminar in Criminal Justice), do not complete a 12-credit internship (or additional coursework in lieu of the internship), and take 12, rather than 21, credits in criminal justice electives. The difference, therefore, is one of depth of knowledge and training. Persons with an interest in criminal justice can contact the Department of Political Science and Criminal Justice to talk to a professor about the comparative benefits of an Associate's versus Bachelor's degree from Edinboro University.

Many students who earn their Associate's degree in Criminal Justice decide to pursue the Bachelor's degree as well, either immediately or after working in the field for a time. The Associate's degree program is designed to allow for an easy transition into the Bachelor's degree program: All of a student's coursework for the Associate's degree will count toward the Bachelor's degree. Furthermore, the Department of Political Science and Criminal Justice at Edinboro University offers many of its Criminal Justice course online; this makes it easier for Associate's degree students to complete the Bachelor's degree requirements while continuing to work in the field.

All Associate's degree students take six courses that introduce them to the field of criminal justice and train students to analyze and critique the criminal justice system from different disciplinary perspectives. The six courses are POLI 201, American Government; SOC 100, Principles of Sociology; CRIM 200, Introduction to Criminal Justice; CRIM 310, Introduction to Corrections; CRIM 330, Introduction to Policing; and POLI 365, Prosecution and the Courts.

Associate's degree students take an additional four courses (12 credits) of criminal justice electives, which focus on a) law and the legal system, b) social, political, and historical causes of crime and delinquency, or c) techniques of investigating and preventing crime. Students choose elective course in consultation with their academic advisor and consistent with their personal and career interests.

Students must earn a C or better in all courses that count toward the Criminal Justice major.

I.	General Education Requirements		30 sem. hrs.
	ENGL101	College Writing Skills	3 sem. hrs.
	ENGL102	Writing and Research Skills	3 sem. hrs.
	MATH104	Finite Mathematics or higher	3 sem. hrs.
	CSCI104	Essential Computing	3 sem. hrs.
	One approved course from six of the seven following Core categories (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Ethics, Natural Science) 18 sem. hrs.		
II.	Criminal Justice Requirements		24 sem. hrs.
	POLI201	American Government (3)	
	SOC100	Principles of Sociology (3)	
A.	Requirements in the Criminal Justice System		12 sem. hrs.
	CRIM100	Introduction to Criminal Justice (3)	
	CRIM330	Introduction to Policing (3)	
	CRIM310	Introduction to Corrections (3)	
	POLI365	Prosecution and the Courts (3)	
	To be selected from at least two categories below:		
			12 sem. hrs.
B.	Legal Aspects of Crime		
	CRIM462	Pennsylvania Criminal Code (3)	
	CRIM/POLI469	Criminal Procedure and Evidence (3)	
C.	Societal Influences on Crime and Delinquency		
	PSYC350	Drugs and Human Behavior (3)	
	CRIM321	Organized Crime (3)	
	SOC335	Juvenile Delinquency (3)	
	HIST379	U.S. Police History (3)	
D.	Techniques of Dealing with Crime		
	CRIM340	Criminal Investigation (3)	
	POLI306	Public Administration (3)	
	CRIM355	Criminalistics (3)	
	CRIM370	Probation, Parole and Community Corrections (3)	
E.	Electives		
	CRIM380	Juvenile Justice (3)	
III.	Electives (Open)		6 sem. hrs.
	TOTAL		60 sem. hrs.

ASSOCIATE OF ARTS – CRIMINAL JUSTICE (Suggested Four-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
POLI201	American Government (3)		
SOC100	Principles of Sociology (3)		
CRIM100	Intro to Criminal Justice		
MATH 104	Finite Mathematics (3)		
	TOTAL		15 sem. hrs.

Second Semester

CRIM330	Introduction to Policing (3)		
CRIM310	Introduction to Corrections (3)		
ENGL102	Writing/Research Skills (3)		
CSCI104	Essential Computing (3)		
	Core (3)		
	TOTAL		15 sem. hrs.

Third Semester

POLI365	Prosecution and the Courts (3)		
	Criminal Justice Elective (3)		
	Criminal Justice Elective (3)		
	Core (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fourth Semester

	Criminal Justice Elective (3)		
	Criminal Justice Elective (3)		
	Core (3)		
	Open Elective (3)		
	Open Elective (3)		
		TOTAL	15 sem. hrs.
		TOTAL	60 sem. hrs.

Pre-Law Study

The pre-law program at Edinboro University prepares students for graduate-level education in law and, ultimately, the practice of law. The pre-law program is not an academic major. Rather, the pre-law program is a combination of rigorous law-related courses; strong guidance from the pre-law faculty and the pre-law advisor; internship and mentoring programs; and the Pre-Law Society, a student-run organization. Students thinking of attending law school should meet with the pre-law advisor as soon as possible to obtain advice about courses and other matters related to law school and the practice of law.

Law schools accept students from any major **so long as** the major is academically rigorous. Law schools are most comfortable accepting students who graduate with a degree in a "traditional" area of study: political science (the most common), history, economics, business, English, and philosophy, among others. Traditional areas of study develop a student's ability to read and think critically, conduct research, and write and speak clearly and persuasively. If a student is serious about attending law school, they must actively seek out an area of study, and particular courses, that are **challenging**: good majors, and courses, will force a student to read a lot, write a lot, and think broadly and critically on a regular basis.

COURSES FOR PRE-LAW STUDENTS

Edinboro University offers several law-related courses. The following constitute the 'core' pre-law courses that all students seriously considering law school are encouraged to take:

POLI343	Law and Legal Systems
POLI463	Civil Liberties
POLI465	Constitutional Law
BUAD360	Business Law I

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

POLI365	Prosecution and the Courts
POLI550	International Law
POLI560	Jurisprudence
POLI/CRIM469	Criminal Procedure and Evidence
BUAD365	Business Law II
BAUD410	Legal Environment of International Business
PSYC355	Psychology and Law

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:

POLI201	American Government
POLI240	Introduction to Comparative Politics
POLI348	Introduction to International Politics
POLI370	Political Thought I
POLI372	Political Thought II
HIST101	World Civilizations I

HIST102	World Civilizations II
HIST261	History of U.S. I
HIST262	History of U.S. II
ECON215	Macroeconomics
ECON220	Microeconomics
MATH260	Elements of Statistics
PSYC101	General Psychology
ANTH180	Introduction to Anthropology
PHIL200	Introduction to Philosophy and Values
PHIL240	Introduction to Contemporary Moral Issues
SOC100	Introduction to Sociology
	A course in research methods (any discipline)

Psychology Department

FACULTY: Ronald A. Craig, Charles A. Edwards, Sharon A. Hamilton, Joyce A. Jagielo, Gary LaBine, Susan J. LaBine, Cynthia Legin-Bucell, Gary M. Levine, Grant McLaren, Peter McLaughlin, Gregory D. Morrow, William D. Pithers, Michael A. Skelly, Heather T. Snyder

The Bachelor of Arts degree program in psychology is designed to serve the student seeking a terminal liberal arts degree, as well as the student who is preparing for graduate training in psychology or allied fields. Many career opportunities exist in mental health, schools, industry and government service for program graduates.

Students complete seven foundation courses, including at least one advanced research course. Students also choose their area of specialization in either the Applied Mental Health track, the Applied Developmental track, or design their own Custom track with their advisor.

Students may also choose to take the junior level Internship in Psychology (PSYC395). This course allows the student to obtain intensive "on the job" experience prior to graduation.

Bachelor of Art Degree**Psychology**

- | | |
|-----------------------------------|--------------|
| I. General Education Requirements | 48 sem. hrs. |
| II. Specialization in Psychology | 52 sem. hrs. |
| A. Required Psychology Courses* | |

Foundations (22 sem. hrs.)
 PSYC101 General Psychology (3)
 PSYC225/6 Psychological Statistics (4)**
 PSYC227 Experimental Psychology (*counts under General Education-Skills*) (3)**

Choose one of the following two courses:

PSYC300 Learning Theory (3) **or**
 PSYC400 Cognitive Psychology (3)

Choose one of the following two courses:

PSYC390 Social Psychology (3) **or**
 PSYC370 Psychology of Personality (3)

Choose one of the following two courses:

PSYC350 Drugs and Human Behavior **or**
 PSYC425 Behavioral Neuroscience (3)

*Choose one of the following PSYC lab courses:*****

PSYC380 Learning and Motivation
 PSYC405 Cognitive Lab
 PSYC 410 Sensation & Perception Lab
 PSYC 427 Applied Psychology Lab
 PSYC430 Lab in Social Psychology **or**
 PSYC440 Systems of Behavioral Intervention

And choose 3 credits from one of the following PSYC courses:

Any of the above lab courses,
 PSYC 395 or 396 (Internship)
 PSYC 490 (Independent study)
 PSYC 496 (Advanced Seminar in PSYC) **or**
 PSYC 497 (Advanced Research Seminar in PSYC)

- | |
|---|
| B. Specialization (Applied Mental Health, Applied Developmental, or Custom Focus) (15 sem. hrs.)* |
|---|

APPLIED MENTAL HEALTH FOCUS (15 sem. hrs.)

Required:
 PSYC365 Abnormal Psychology (3)
 PSYC373 Introduction to Clinical Psychology (3)
 PSYC385 Introduction to Professional Psychology (3)
 Choose two of the following courses:
 PSYC319 Psychology of Aging (3)
 PSYC375 Introduction to Psychological Assessment (3)
 PSYC388 Group Psychotherapy (3)

OR**APPLIED DEVELOPMENTAL FOCUS (15 sem. hrs.)**

Required:
 PSYC317 Developmental Psychology (3)
 PSYC377 Psychology of the Family (3)
 PSYC387 Developmental Psychopathology (3)
 Choose two of the following courses:
 PSYC375 Introduction to Psychological Assessment (3)
 PSYC385 Introduction to Professional Psychology (3)
 PSYC388 Group Psychotherapy (3)

OR**CUSTOM FOCUS (15 sem. hrs.)**

Required:
 Students complete 15 additional hours in Psychology based on their interests and career goals with guidance from their advisor.

C. Psychology Electives (15 sem. hrs.)

III. Free Electives 20 sem. hrs
 TOTAL 120 sem. hrs

Students are required to have an overall Q.P.A. of 2.5 or higher to graduate with a Degree in Psychology.

Students are required to have a Q.P.A. of 2.0 to declare Psychology as a major (except for 1st semester freshman).

* A grade of C or better must be earned in each foundation and specialization course.

** Students are required to successfully complete MATH104 (or above) with a C or better before enrolling in PSYC225/6 Psychological Statistics.

*** Students are required to successfully complete ENGL102 (or above) and PSYC225 Psychological Statistics with a grade of C or better in both courses **prior** to enrollment in PSYC227 Experimental Psychology.

**** Students are required to successfully complete PSYC227 Experimental Psychology with a grade of C or better **prior** to enrollment in any of the "lab" courses. Each lab course has an additional prerequisite as well.

NOTE: Psychology majors are **not** permitted to count psychology courses under General Education except PSYC227 for computer competency.

BACHELOR OF ARTS PSYCHOLOGY (Track: Applied-Mental Health) (Suggested Eight-Semester Sequence; other options are available)**First Semester**

PSYC101 General Psychology (3)
 ENGL101 College Writing Skills (3)
 MATH104 Finite Math (3)
 General Education Core Courses (6) 15 sem. hrs

Second Semester

PSYC225 Psychological Statistics (4)
 ENGL102 Specialized College Writing and Research Skills (3)
 General Education Core Courses (9) 16 sem. hrs

Third Semester

PSYC227 Experimental Psychology (*General Education-Computer Competency*) (3)
 PSYC370 Psychology of Personality (3) OR PSYC390 Social Psychology (3)
 General Education Core Courses (6)
 HPE Health and Physical Activity Combination Course (3) 15 sem. hrs

Fourth Semester

PSYC300 Learning Theory/Appl (3) OR PSYC400 Cognitive Psychology (3)
 PSYC365 Abnormal Psychology (3)
 PSYC373 Introduction to Clinical Psychology (3)
 General Education Core Course (3)
 General Education Distribution 1 (*Humanities and Fine Arts*) (3) 15 sem. hrs

Fifth Semester

PSYC350 Drugs and Human Behavior (3) OR PSYC425 Behav. Neuroscience (3)
 PSYC375 Introduction to Psychology Assessment (3)
 General Education Distribution 2 (*Social and Behavioral Sciences*) (3)
 Free Elective Course (3) 12 sem. hrs

Sixth Semester

PSYC385 Introduction to Professional Psychology (3)
 PSYC388 Group Psychotherapy (3)
 PSYC Psychology Lab Course (3)
 Free Elective Courses (5) 14 sem. hrs

SUMMER INTERNSHIP IN PSYCHOLOGY

12 sem. hrs

Seventh Semester

PSYC Psychology Electives (3)
 General Education Distribution 2 (*Social and Behavioral Sciences*) (3)
 Free Elective Courses (6) 12 sem. hrs

Eighth Semester

PSYC Psychology Elective (3)
 General Education Distribution 3 (*Natural Science and Math*) (3)
 Free Elective Courses (6) 12 sem. hrs

BACHELOR OF ARTS PSYCHOLOGY (Track: Applied-Developmental) (Suggested Eight-Semester Sequence; other options are available)**First Semester .**

PSYC101 General Psychology (3)
 ENGL101 College Writing Skills (3)
 MATH104 Finite Math (3)
 General Education Core Courses (6) 15 sem. hrs

Second Semester

PSYC225 Psychological Statistics (4)
 ENGL102 Specialized College Writing and Research Skills (3)
 General Education Core Courses (9) 16 sem. hrs

Third Semester

PSYC227 Experimental Psychology (*General Education-Computer Competency*) (3)
 PSYC370 Psychology of Personality (3) OR PSYC390 Social Psychology (3)
 General Education Core Courses (6)
 HPE Health and Physical Activity Combination Course (3) 15 sem. hrs

Fourth Semester

PSYC300 Learning Theory/Appl (3) OR PSYC400 Cognitive Psychology (3)
 PSYC317 Developmental Psychology (3)
 PSYC350 Drugs and Human Behavior (3) OR PSYC425 Behav Neuroscience (3)
 General Education Core Course (3)
 General Education Distribution 1 (*Humanities and Fine Arts*) (3) 15 sem. hrs

Fifth Semester

PSYC375 Introduction to Psychology Assessment (3)
 PSYC387 Develop Psychopath (3)
 General Education Distribution 2 (*Social and Behavioral Sciences*) (3)
 Free Elective Course (3) 12 sem. hrs

Sixth Semester

PSYC385	Introduction to Professional Psychology (3)	
PSYC377	Psychology of the Family (3)	
	PSYC Psychology Lab Course (3)	
	Free Elective Courses (5)	14 sem. hrs

SUMMER INTERNSHIP IN PSYCHOLOGY 12 SEM. HRS.**Seventh Semester**

	PSYC Psychology Elective (3)	
	General Education Distribution 2 (<i>Social and Behavioral Sciences</i>) (3)	
	Free Elective Courses (6)	12 sem. hrs

Eighth Semester

	PSYC Psychology Elective (3)	
	General Education Distribution 3 (<i>Natural Science and Math</i>) (3)	
	Free Elective Courses (6)	12 sem. hrs

**BACHELOR OF ARTS PSYCHOLOGY (TRACK: CUSTOM FOCUS)
(Suggested Eight-Semester Sequence; other options are available)****First Semester**

PSYC101	General Psychology (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Math (3)	
	General Education Core Courses (6)	15 sem. hrs

Second Semester

PSYC225/6	Psychological Statistics (4)	
	PSYC Psychology Elective (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
	General Education Core Courses (6)	16 sem. hrs

Third Semester

PSYC227	Experimental Psychology (<i>General Education-Computer Competency</i>) (3)	
	General Education Core Courses (9)	
	HPE Health and Physical Activity Combination Course (3)	15 sem. hrs

Fourth Semester

PSYC300	Learning Theory/Appl (3) OR PSYC400 Cognitive Psychology (3)	
PSYC370	Psychology of Personality (3) OR PSYC390 Social Psychology (3)	
	PSYC Psychology Course (determined with advisor) (3)	
	General Education Distribution 1 (<i>Humanities and Fine Arts</i>) (3)	
	General Education Distribution 2 (<i>Social and Behavioral Sciences</i>) (3)	15 sem. hrs

Fifth Semester

PSYC350	Drugs and Human Behavior (3) OR PSYC425 Behav Neuroscience (3)	
	PSYC Psychology Course (determined with advisor) (3)	
	PSYC Psychology Elective (3)	
	General Education Distribution 2 (<i>Social and Behavioral sciences</i>) (3)	
	General Education Distribution 3 (<i>Natural Science and Math</i>) (3)	15 sem. hrs

Sixth Semester

	PSYC Psychology Course (determined with advisor) (3)	
	PSYC Psychology Elective (3)	
	PSYC Psychology Lab Course (3)	
	Free Elective Courses (6)	15 sem. hrs

Seventh Semester

	PSYC Psychology Course (determined with advisor) (3)	
	PSYC Psychology Lab Course (3) OR other advanced PSYC course	
	PSYC Psychology Elective (3)	
	Free Elective Courses (6)	15 sem. hrs

Eighth Semester

	PSYC Psychology Course (determined with advisor) (3)	
	PSYC Psychology Elective (3)	
	Free Elective Courses (8)	14 sem. hrs

Social Work Department

FACULTY: Hilary Copp, Donna F. Hixon, Suzanne McDevitt, David N. Pugh, Roselle Scaggs, Margaret Smith

The Department offers a Bachelor of Science degree in Social Work. In addition to approval granted by the Pennsylvania State System of Higher Education, the program has been fully accredited by the Council of Social Work Education. A recent study revealed that 96 percent of our social work graduates obtained professional employment in the field.

Majors in the Department's degree program have had considerable success in being admitted to graduate schools.

Bachelor of Science Degree**Social Work**

The mission of the baccalaureate Social Work Program is to prepare graduates with the knowledge, values and skills for competent and effective beginning-level generalist social work practice and for a commitment to social and economic justice, cultural competency, advocacy for oppressed and at-risk populations, lifelong learning, and active participation, contributions, and leadership in the larger community. The program strives to achieve its mission by providing access to a quality education that offers a range of learning experiences and opportunities for students.

The program prepares students to achieve 10 competencies related to social work practices.

1. Identify as a professional social worker and conduct oneself accordingly.
2. Apply social work ethical principles to guide professional practice.
3. Apply critical thinking to inform and communicate professional judgments.
4. Engage diversity and difference in practice.
5. Advance human rights and social and economic justice.
6. Engage in research-informed practice and practice-informed research.
7. Apply knowledge of human behavior and the social environment.
8. Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
9. Respond to contexts that shape practice.
10. Engage, assess, intervene and evaluate with individuals, families, groups, organizations and communities.

Graduates find employment in a variety of settings working with the elderly, children, the mentally ill and mentally retarded, adult and juvenile offenders, and persons with disabilities. Graduates work in schools, institutions for dependent populations, group homes, mental health centers, hospitals, child welfare agencies, nursing homes, community centers and many other human service organizations.

The Baccalaureate Social Work Program is accredited by the Council on Social Work Education. Program requirements are designed to prepare students for direct services with client systems of various sizes and types. The curriculum is based on a liberal arts perspective and includes professional foundation courses that contain the common body of the social work profession's knowledge, values and skills. The liberal arts base provides knowledge in artistic expression, American and world civilizations, social and behavioral science, cultural diversity and social pluralism, literature, science and philosophy. There is considerable latitude for individual choice within the liberal arts component of the curriculum, but students are required to have courses that provide them with good oral and written communication skills, knowledge of social, psychological and biological determinants of human behavior and diverse cultures, social conditions and social problems.

The program does not grant social work course credit for life experience or previous work experience.

All freshmen and sophomore students pursuing a degree in social work are Level I pre-social work majors. All Level I pre-social work students, in the semester that they take SOWK250, must complete an application for formal admission into the program and must be interviewed by the social work program director or other designated social work program faculty. Students are responsible for returning completed application forms to the program director and for scheduling an appointment for a formal admission interview. The program will either accept the student unconditionally, accept the student with conditions explicitly stated or reject the student, giving clear reasons for that decision and recommending alternatives. The student and registrar will be informed of the decision. Applications are accepted in the spring semester only.

Students must maintain a G.P.A. of 2.30; 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. Students are not permitted to enroll in excess of two required social work courses per semester and all required courses must be completed prior to taking SOWK495/496.

I. General Education Requirements	48 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 General Psychology (3)	
PSYC225 Psychological Statistics (3)	
BIOL101 Human Biology (3)	
SOC100 Principles of Sociology (3)	
SOC326 Society and the Individual (3)	
SOC390 Sociology of the Life Cycle (3)	
III. Free Electives	12 sem. hrs.
TOTAL	120 sem. hrs.

BACHELOR OF SCIENCE – SOCIAL WORK (Suggested Eight-Semester Sequence)

First Semester

SOWK100 Introduction to Social Work (3)	
ENGL101 College Writing Skills (3)	
MATH104 Finite Mathematics (3)	
PSYC101 General Psychology (Core 4) (3)**	
SOC100 Principles of Sociology (Core 5) (3)**	
TOTAL	15 sem. hrs.

Second Semester

SOWK115 Human Diversity (3)	
ENGL102 Specialized College Writing and Research Skills (3)	
CSCI104 Essential Computing I (3)	
BIOL 101 Human Biology (Distribution 3) (3)**	
HPE (3)	
TOTAL	15 sem. hrs.

Third Semester

SOWK205 Human Behavior in the Social Environment (3)	
SOC326 Society and the Individual (Distribution 2) (3)**	
Core 1 (3)	
Core 3 (3)	
Core 7 (3)	
TOTAL	15 sem. hrs.

Fourth Semester

SOWK250 Introduction to Social Welfare Policy (3)	
Distribution 1 (3)	
Core 2 (3)	
Core 6 (3)	
Free Elective (3)**	

* Apply for admission to Level II – Social Work major in the fourth semester.

TOTAL 15 sem. hrs.

Fifth Semester

SOWK300 Social Welfare Policy (3)	
SOWK310 Social Work Practice I (3)	
PSYC225 Psychological Statistics (3)	
Free Elective (3)**	
Free Elective (3)**	

TOTAL 15 sem. hrs.

Sixth Semester

SOWK312 Social Work Practice II (3)	
SOWK315 Introduction to Social Work Research (3)	
SOC390 Sociology of the Life Cycle (Distribution 2) (3)**	
Free Elective (3)**	
Free Elective (3)**	

TOTAL 15 sem. hrs.

Seventh Semester

SOWK410 Social Work Practice III (3)	
Free Elective (3)**	
Free Elective (3)**	
Free Elective (3)**	
Free Elective (3)**	

TOTAL 15 sem. hrs.

Eighth Semester

SOWK495 Internship: Social Work Fieldwork (12)	
SOWK496 Senior Seminar (concurrent with SOWK495) (3)	

TOTAL 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 12 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.

Sociology Department

FACULTY: Ivan Chompalov, Irene Fiala, Werner Lange, Rhonda Matthews, Lee Williams

The Bachelor of Arts degree in Sociology is structured to give the student a background in theory, methodology, and program content with an emphasis on applied sociology. In addition to preparing the student for possible graduate education the general goal of the program is to provide the student with the basic applied sociological skills so that he/she may assume a variety of professional positions and become a contributing member of society. Applied sociological skills, such as report writing, research design, data collection and analysis, problem-solving, and computer knowledge, are highly sought after in the professional world.

Majors in the department's degree programs have had considerable success in being admitted to graduate schools. Recent graduates have been admitted to the University of Chicago, Northwestern, Ohio State, Penn State, the University of Pittsburgh, and Case-Western Reserve University.

Associate of Arts Degree

Human Services – Social Services

Many health and human service agencies desire individuals who have less than a baccalaureate degree but yet are sophisticated enough to be effective workers. There are several areas these two-year trained individuals could serve. This program is concerned with preparation of individuals as mental health workers/psychiatric aides, social service workers, workers for developmentally disabled, and workers with the elderly. The availability of trained paraprofessionals in these areas could make such services available to the public more efficiently and effectively. The goal of the program is to educate, in two years, a generalist worker who could move into a wide range of mental health and/or human services fields. The program's basic premise is that there is a common core of attitudes, skills, and knowledge that apply to a variety of settings. Individuals equipped with these competencies can make effective contributions to agencies involved in mental health, education, welfare, retardation, corrections and other areas.

Students may pursue this degree in either of two tracks: Developmental Disabilities (housed in the Department of Special Education and School Psychology), or Social Services (housed in the Department of Sociology). The specific courses required in the categories under the Major (items II. A, B and C) are listed below.

I. General Education		30 sem. hrs.	
ENGL101	College Writing Skills 3 sem. hrs.		
ENGL102	Writing and Research Skills 3 sem. hrs.		
MATH104	Finite Mathematics or higher 3 sem. hrs.		
CSCI104	Essential Computing I 3 sem. hrs.		
	One approved course from six of the seven following Core categories (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Ethics, Natural Science) 18 sem. hrs.		
II. Human Service Area		24 sem. hrs.	
A. Nature and Need of Service		9 sem. hrs.	
	Choose three of the following courses		
SOWK100	Introduction to Social Work (3)		
SOC100	Principles of Sociology (3)		
SOC207	Contemporary Social Problems (3)		
SOC364	Race and Ethnic Relations (3)		
SOC390	Sociology of the Life Cycle (3)		
B. Behaviors, Treatments and Strategies		9 sem. hrs.	
	Choose three of the following courses		
SOWK115	Human Diversity (3)		
SOWK250	Introduction to Social Welfare Policy (3)		
SOC326	Society and the Individual (3)		
SOC347	Work and Society		
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

I. General Education Requirements		48 sem. hrs.
II. Sociology Requirements		12 sem. hrs.
SOC100	Principles of Sociology (3)	
SOC250	History and Methods of Sociology (3)	
SOC260	Intro. to Sociological Theory (3)	
SOC457	Social Stratification (3)	
III. Required Support Course		3 sem. hrs.
MATH260	Elements of Statistics (3) or	
PSYC225	Psychological Statistics (3) or	
SOC500	Applied Methods in Sociology (3)	
IV. Sociology Electives*		18 sem. hrs.
V. Required Foreign Language & Culture Courses		6 sem. hrs.
VI. Free Electives		33sem. hrs.
	TOTAL	120 sem. hrs.

* During the sophomore year, each Sociology major shall meet with their advisor and develop a plan which prescribes a course of studies around a particular theme. This theme will include the courses required for the major as well as a specialized concentration within sociology, and will also take into consideration other course offerings which relate to the student's future plans. Some of these concentrations might include: family studies, organization theory and practice, advanced research methods and techniques, hospital administration and/or research, public opinion surveying, gerontology studies, computer applications, criminal justice administration, etc. This plan will be approved by the student, and his/her advisor.

Majors are also strongly encouraged to enroll in the Sociology internship experience. Many recent graduates feel that their internship experience was extremely important in obtaining a professional position.

Our Sociology majors have successfully secured jobs in a wide range of employment areas. Just to mention a few, such employment included jobs in government, retail trade, the criminal justice system, hospital administration, public relations and community based research firms.

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

First Semester

ENGL101	College Writing Skills (3)		
MATH104	Finite Mathematics (3)		
SOC100	Principles of Sociology (3)		
	Core (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Specialized College Writing/Research Skills (3)		
CSCI104	Essential Computing I (3)		
	Core (3)		
	Core (3)		
	HPE Elective (3)		
	TOTAL	15 sem. hrs.	

Third Semester

SOC250	History and Methods of Sociology (3)		
SOC260	Introduction to Sociological Theory (3)		
	Distribution (3)		
	Free Elective (3)		
	Core (3)		
	TOTAL		15 sem. hrs.

Fourth Semester

	Sociology Elective (3)		
	Sociology Elective (3)		
	Free Elective (3)		
	Core (3)		
	Distribution (3)		
	TOTAL		15 sem. hrs.

Fifth Semester

MATH260	Sociology Elective (3)		
	Elements of Statistics (3)		
	Core (3)		
	Distribution (3)		
	Free Elective (3)		
	TOTAL		15 sem. hrs.

Sixth Semester

	Sociology Elective (3)		
	Sociology Elective (3)		
	Distribution (3)		
	Foreign Language and Culture (3)		
	Free Elective (3)		
	TOTAL		15 sem. hrs.

Seventh Semester

SOC500	Methods of Sociological Research (3)		
	Foreign Language and Culture		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	TOTAL		15 sem. hrs.

Eighth Semester

SOC457	Social Stratification (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	TOTAL		15 sem. hrs.

Speech, Language and Hearing Department

FACULTY: Cynthia Grazio, Susan Hegel, Patricia Leigh, Dennis Lutz, Charlotte Molrine, Roy Shinn

The B.A. 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 disorders of communication in graduate school. Students are also introduced to 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 39 semester hour core and nine semester hours of interdisciplinary electives provides students with a very solid base with which to begin graduate study, plus it offers the flexibility of 24 hours of free electives. Although a master's degree is needed to qualify for PDE certification in speech and language, several of the required courses may be completed as a part of your undergraduate degree.

Students are strongly encouraged to become active members of our local chapter of the National Speech-Language-Hearing Association (NSSLHA). The Speech and Hearing Club is sanctioned by the Edinboro University Student Government Association. It provides opportunities for students to participate in service projects, fundraising, social/recreational activities, travel to conferences, and planning professional activities such as the annual alumni conference on Homecoming weekend.

Students majoring in the Speech and Hearing Sciences program have an opportunity to observe clinical services during their education at the Gov. George Leader Speech and Hearing Center or other approved sites.

Students majoring in the Speech and Hearing Sciences program must earn a minimum letter grade of C in all SHLD courses and in required English writing courses.

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 and Hearing Association (ASHA). The degree in Speech-Language Pathology prepares students to meet ASHA certification and Pennsylvania licensure requirements. Certification by the Pennsylvania Department of Education (PDE) is optional.

Bachelor of Arts Degree

Speech and Hearing Sciences

I.	General Education Requirements		48 sem. hrs.
II.	Speech-Language-Hearing Disorders Concentration		39 sem. hrs.
	A. Communication Sciences		15 sem. hrs.
	SHLD125	Psych of Comm (3)	
	SHLD300	Communication Across the Lifespan (3)	
	SHLD355	Anat and Phys of SLP Mech (3)	
	SHLD350	Speech and Hearing Science (3)	
	SHLD375	Acoustical Phonetics (3)	
	B. Introduction to Communication Disorders		12 sem. hrs.
	SHLD210	Survey Comm Dis Children (3)	
	SHLD220	Survey Comm Dis Adults (3)	
	SHLD230	Intro to Audiology (3)	
	SPED215	Psych of Excep Children (3)	
	C. Professional Foundations		12 sem. hrs.
	SHLD320	Found of Artic/Phono Dis (3)	
	SHLD340	Adv Language Dev and Analysis (3)	
	SHLD420	Observe Norm and Dis Comm (3)	
	SHLD515	Audiologic Rehab (3)	
III.	Speech and Hearing Electives		9 sem. hrs.
	SHLD500	Neuroanatomy for the SLP (3)	
	SHLD510	Clinical Experience (3)	
	SHLD520	Comm Dis Across Cultures (3)	
	SHLD530	Counseling and Comm Dis (3)	
	SHLD550	Prof Topics in Comm Dis (3)	
	SPED480	Develop/Learning Dis (3)	
V.	Free Electives: Special Student-Developed Study Focus		21 sem. hrs.
IV.	Required Supporting Course		3 sem. hrs.
	BIOL101	Human Biology (3)	
	PHYS101	Physical Science 1 (3)	
	TOTAL		120 sem. hrs.

* A grade of "C" or better is required in all SHLD courses.

To be recommended for Pennsylvania Instructional I Certification in Speech Language Impaired, the following program must be completed.

1. Complete all requirements for the Master of Arts degree in Speech-Language Pathology.
2. Complete: Three hours in composition, Six hours in math, Three hours in literature
3. Meet all other requirements, such as national standardized tests that currently are stipulated by the PA Department of Education.

BACHELOR OF ARTS – SPEECH AND HEARING SCIENCES
(Suggested Eight-Semester Sequence)
First Semester

ENGL101	College Writing Skills (3)		
MATH104	Finite Mathematics (3)		
SHLD125	Psychology of Communication (3)		
PSYC101	General Psychology (3)		
	HPE Elective (3)		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
PHYS101	Physical Science I (3)		
BIOL101	Human Biology (3)		
	Distribution (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Third Semester

SHLD210	Survey Comm. Dis. Children (3)		
SHLD300	Communication Across the Lifespan (3)		
SHLD355	Anatomy and Physiology of the SLP Mechanisms (3)		
	Distribution (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

SHLD220	Survey Comm. Dis. Adults (3)		
SHLD230	Introduction to Audiology (3)		
SHLD350	Speech and Hearing Science (3)		
SPED215	Psychology of Exceptional Children (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Fifth Semester

SHLD375	Acoustical Phonetics and Phonetic Analysis (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	Free Elective (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

SHLD320	Found of Artic/Phono Dis (3)		
SHLD340	Advanced Language Development/Analysis (3)		
SHLD365	Computer Tech App: Speech Language Pathology Audiology (3)		
	Distribution (3)		
	Free Elective (3)		
	TOTAL	15 sem. hrs.	

Seventh Semester

	Choose two from the following seven classes: SHLD500, SHLD510, SHLD520, SHLD530, SHLD550, or SPED480 (6)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	TOTAL	15 sem. hrs.	

Eighth Semester

SHLD420	Observe Norm. and Dis, Comm (3)		
SHLD515	Audiologic Rehabilitation (3)		
	Choose one from the following seven classes: SHLD500, SHLD510, SHLD520, SHLD530, SHLD550, or SPED480 (3)		
	Free Elective (3)		
	Free Elective (3)		
	TOTAL	15 sem. hrs.	

School of Education

Mission

The mission of the School of Education at Edinboro University is to prepare highly qualified professionals who meet the needs of P-12 schools, community agencies, health and fitness organizations, and the broader workforce. Clinical experiences for candidates are designed to assist agencies and to help public-schools meet the challenges of state and federal accountability measures while providing optimum learning experiences for students. Program development is based on a philosophy of continuous improvement through ongoing assessment. Candidates are encouraged to promote the ideals of American citizenship and to improve the quality of life for all people in a diverse and technologically sophisticated society.

The State Board of Education adopted changes that affect all of Pennsylvania's teacher certification programs by adding nine credits or 270 hours or equivalent combination for adaptations and accommodations for diverse students in an inclusive setting and three credits or 90 hours or equivalent combination to meet the instructional needs of English Language Learners. Therefore, additional program requirements have been developed and incorporated into your certification program to comply with new regulations for certifying teachers that become effective on January 1, 2013.

The State Board of Education also adopted changes specific to early childhood, elementary (K-6) and special education. New certification guidelines will apply January 1, 2013 regardless of a candidate's enrollment date. Programs listed in this catalog are effective beginning Fall 2010 semester with an anticipated graduation date after January 1, 2013.

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.

The NCATE Unit

The NCATE Unit is comprised of all programs and faculty in the School of Education as well as liberal arts faculty and programs in art education, music education, and speech-language pathology. The dean of education is the head of the unit, convenes unit faculty on a regular basis, and chairs the Unit Leadership Committee, which is empowered to approve curriculum innovations or changes in procedures that affect the entire unit. The Unit Leadership Committee consists of: (1) the deans of education, graduate studies, and liberal arts, (2) the chairs of art, early childhood/special education, elementary/middle/secondary education, health and physical education, music, professional studies, and (3) the program coordinator for speech-language pathology.

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 45 hours of undergraduate credits and meet all of the conditions listed below.

1. Earned a minimum undergraduate cumulative quality point average of 2.80.
2. Achieved passing scores on all of the following Praxis I tests: reading, writing, and mathematics.
3. Successfully completed six semester hours of college level mathematics and six semester hours of English, three hours of which must be literature.
4. Successfully completed SEDU271 Multi-cult in American Schools.
5. If enrolled in secondary education, completed a minimum of 18 credits in course work in the student's major field.
6. Met with content area co-advisor if enrolled in secondary education.
7. If majoring in health and physical education, have completed HPE133 and HPE220, HPE225, or HPE230.

Students are not eligible to enroll in upper level education courses or the Level II field experience until they have been admitted to candidacy. Students must submit the Admission to Teacher Candidacy form to the Office of the Dean of Education (Butterfield Hall 330) when all conditions of teacher candidacy have been met.

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, Praxis test performances, and other program requirements. Students who encounter difficulty with Praxis I tests in reading, writing, or mathematics are referred for tutoring and counseling. The individual academic departments that house certification programs are responsible for assisting students who encounter difficulty with Praxis II tests.

Following admission to candidacy, students must maintain a cumulative quality point average of 2.80. If a student's cumulative quality point average falls below 2.80, the student will be dismissed from the program at the discretion of the dean of the School of Education pending recommendations from the student's advisor and department chair.

Students enrolled in programs leading to teacher certification must earn a grade of C or better for each course in their major and for any courses in general education that are required for the major. Unless otherwise specified in the *2010-2012 Undergraduate Catalogue*, this provision applies to all courses in a student's program except for general education requirements and electives that are not dictated by the major.

Dispositions

In addition to the pedagogical skills and knowledge defined in the standards of NCATE, the Interstate New Teacher Assessment and Support Consortium (INTASC), and the Pennsylvania Department of Education, all candidates in programs for the preparation of school personnel are expected to demonstrate appropriate dispositions. The character traits, attitudes, beliefs, behaviors, and emotional qualities listed on the Edinboro University NCATE web page and in the *Pennsylvania Code of Professional Practice and Conduct* for Educators constitute the dispositions for future teachers from Edinboro University of Pennsylvania.

Each department that houses programs in teacher preparation has a Dispositions Committee. It is the responsibility of the 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 Dispositions Committee, the committee – with the approval of the chair of the department – may refer the candidate to the dean of the School of Education along with a written recommendation and rationale. At the discretion of the dean of education, the candidate may be dismissed from the program.

Admission to Student Teaching

Student teaching represents the culmination of the program of professional preparation. No undergraduate candidate will be considered for the degree or for the recommendation for a teaching certificate who has not completed, under the supervision of Edinboro University, 12 semester hours of student teaching. Applications for student teaching are available in the Office of Student Teaching and Student Assistance (Miller Research Learning Center 111).

Student teaching is a full-time activity in which students are given experience in most of the activities a classroom teacher might encounter. The student is expected to devote full time and energies 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 student teacher to schools in the service area according to the best interest of the student, the University and the program. All assignments are made at off-campus locations. Students must provide their living 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. No student may take additional academic work (in middle and secondary, one course is scheduled with student teaching – Classroom Community) while completing his/her student teaching assignment unless approved by the director of student teaching. Candidates are not permitted to work full time during the student teaching semester, and doing so is grounds for

termination of the student teaching experience. Part-time work is permitted; but if it interferes with student teaching, the candidate may be withdrawn from student teaching at the discretion of the director of student teaching.

To be eligible for student teaching, a candidate must have met all of the following conditions:

1. Maintained a cumulative quality point average of at least 2.80. (note: minimum QPA requirement for graduation and certification 3.0).
2. Completed at least 96 semester hours of undergraduate credit.
3. Passed all Praxis tests required by the Pennsylvania Department of Education for certification in the candidate's subject area. Candidates in dual certification programs must pass all of the state required Praxis tests for one certification and must have at least attempted all of the Praxis tests required for both certifications.
4. Completed, with a grade of C or better, the educational measurement course required within the individual's curriculum (SPED315, SEDU381, ELED380, ECED381, SPED420, MLED381, or HPE311).
5. Completed, with a grade of C or better, the Level II field experience course required in the individual's curriculum and have a recommendation from the field supervisor to advance to student teaching.
6. Completed, with a grade of C or better, (if enrolled in middle or secondary education), a course in the teaching of reading in the student's program: MLED 306 Literacy and the Young Adolescent or SEDU306 Content Literacy in Middle/Secondary Schools.
7. Completed, with a grade of C or better, the methods of teaching course(s) required in the individual's curriculum; OR completed, with a grade of C or better, the required methods courses which the student's major department deems necessary to be successful in student teaching.
8. Completed with a grade of C or better the course SEDU383, ARED383 or HPE384 (a computer technology course specifically designed for education).

Certification

Following graduation and the successful completion of testing requirements designated by the Pennsylvania Department of Education, 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 is the certification officer for Edinboro University. Students must apply for certification through the Student Teaching and Student Assistance Office and must meet all of the following conditions:

1. Have earned a bachelor's degree in an approved program in teacher education or have completed an approved post-baccalaureate certification program.
2. Have a minimum cumulative quality point average of 3.0.
3. Have earned a grade of C or better in student teaching.
4. Passed all Praxis tests required for certification by the Pennsylvania Department of Education.

Teacher candidates must meet the certification requirements, including testing, that are in effect *at the time at which they apply for certification*.

All Praxis tests required for certification cannot be more than 10 years old at the time of application for certification.

NCATE Unit Conceptual Framework

The School of Education Conceptual Framework evolved around the theme of Effective Facilitators of Learning. Teacher candidates, related professionals, and all members of the unit employ the theme as the basis on which decisions and plans are made and implemented. The vision of Edinboro University's NCATE Unit is to prepare highly qualified teacher candidates and related professionals who effectively facilitate student learning. Through knowledge, skills, dispositions, experiences, and an understanding of our diverse and technologically sophisticated society, candidates successfully contribute to the future of their students, to their own professional development, and to the well being of the larger community. Conceptual framework belief statements provide the core of the shared vision across all programs in the School of Education. Candidates in the School of Education:

- embrace diversity
- have solid content knowledge
- exhibit effective pedagogical skills
- understand the learner
- utilize community resources
- engage in lifelong learning
- exhibit informed decision making
- contribute to community

- use motivational and management skills
- integrate technology
- use effective communication skills
- creatively plan, adapt, and assess instruction

In addition, all undergraduate programs are aligned with the principles and standards established by the Interstate New Teacher Assessment and Support Consortium (INTASC), which defines the knowledge, skills, and dispositions within the conceptual framework. The INTASC principles are listed below:

1. **Content Pedagogy** The teacher understands the central concepts, tools of inquiry, and structures of the discipline he or she teaches and can create learning experiences that make these aspects of subject matter meaningful for students.
2. **Student Development**
The teacher understands how children learn and develop, and can provide learning opportunities that support a child's intellectual, social, and personal development.
3. **Diverse Learners**
The teacher understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.
4. **Multiple Instructional Strategies**
The teacher understands and uses a variety of instructional strategies to encourage student development of critical thinking, problem-solving, and performance skills.
5. **Motivation and Management**
The teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
6. **Communication and Technology**
The teacher uses knowledge of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.
7. **Planning**
The teacher plans instruction based upon knowledge of subject matter, students, the community, and curriculum goals.
8. **Assessment**
The teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner.
9. **Reflective Practice: Professional Growth**
The teacher is a reflective practitioner who continually evaluates the effects of his or her choices and actions on others (students, parents, and other professionals in the learning community) and who actively seeks out opportunities to grow professionally.
10. **School and Community Involvement**
The teacher fosters relationships with school colleagues, parents, and agencies in the larger community to support students' learning and well being.

Praxis Pass Rates for Program Completers 2008-2009

Type of Assessment	Institutional Pass Rate
Basic Skills:	
Reading	100%
Writing	100%
Mathematics	100%
Computerized Reading	100%
Computerized Writing	99%
Computerized Mathematics	100%
Fundamental Subjects: Content Knowledge	95%
Academic Content Areas:	
Art: Content Knowledge	100%
Early Childhood	100%
Elementary Education: Curriculum, Instruction and Assessment	95%
English: Eng Lang, Lit.& Composition: Content Knowledge	100%
Health and Physical Education	100%
Mathematics: Content Knowledge	100%
Special Education: N-12	100%
Social Studies: Content Knowledge	97%

Early Childhood and Special Education Department

FACULTY: Lisa Ann Brightman, Susan Criswell, Jean Faieta, Juanita Kasper, Virginia L. McGinnis, Mary Jo Melvin, Donna Murphy, Mary Nientimp, Rosemary A. Omniewski, Ruth Thompson, Sandra Waite-Stupiansky, Maureen A. Walcavich,

Associate of Arts Degree

Human Services: Developmental Disability Specialist

The Associate of Arts (A.A.) degree in the area of Developmental Disabilities Specialist is a two-year, individualized program that prepares students to work with people with disabilities in various public and private sectors. A person receiving this degree would be qualified to work as a trained instructional assistant in public or private schools, residential treatment programs, day care centers, early intervention programs, and other programs that provide services to people with disabilities. Students in the developmental disabilities program select from a wide variety of courses when designing their program of study. Prescribed professional courses provide extensive, relevant information and multiple hands-on field experiences. For their formal practicum, students work directly with professionals in a setting for children or adults with disabilities. The courses and credits earned through this program also apply toward a bachelor's degree (B.S.Ed.) and teacher certification in special education, should a student later choose to pursue the more advanced degree.

I. General Education Requirements	30 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101 College Writing Skills (3)	
ENGL102 Writing and Research Skills (3)	
MATH110 Math Reasoning I (3)	
SEDU183 Tech for Teaching and Learning (3)	
B. Core	18 sem. hrs.
Must choose one approved course from six of the seven core categories.	
See table below.	
1. Artistic Expression (3)	
2. World Civilizations (3)	
3. American Civilizations (3)	
4. Human Behavior (3)	
5. Cultural Diversity /Soc Pluralism (3)	
6. Ethics (3)	
7. Natural Science (3)	

If you are considering eventually pursuing teacher certification through our B.S. Ed. program Special Education P-8 and Early Childhood Education P-4, the following required courses will meet certain Core requirements:

Core 1	Literature	
Core 2	GEOG101 World Geography	
Core 3	HIST262 History of US II	
Core 4	PSYC101 General Psychology	
Core 5	SEDU271 Multiculturalism in American Schools	
Core 7	PHYS101 Physical Science	
II. Area of Specialization		30 sem. hrs.
A. Nature and Needs		
ECED 110	Child Development I (3)	
ECED 150	Child Development II (3)	
ECED 244	Building Partnerships that Support Young Children (3)	
ECED 270	Literacy Foundations Grades 1-4 (3)	
SPED210	Introduction to Exceptionalities (3)	
SPED240	Managing Inclusive Learning Environments (3)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
SPED350	Language and Literacy Skills for Students with Disabilities (3)	
SPED370	Adaptations and Accommodations in Inclusive Classrooms (3)	
TOTAL		60 sem. hrs.

**ASSOCIATE OF ARTS – HUMAN SERVICES-DEVELOPMENTAL
DISABILITIES SPECIALIST**
(Suggested Four-Semester Sequence)

First Semester

ECED110	Child Development I (3)
ENGL101	College Writing Skills (3)
MATH110	Math Reasoning I (3)
Core 1	Artistic Expression: (Literature recommended) (3)
Core 4	Human Behavior: PSYC101 required (3)
TOTAL 15 sem. hrs.	

Second Semester

ENGL102	Writing and Research Skills (3)
ECED150	Child Development II (3)
SEDU183	Educational Technology/Computer Literacy (3)
SPED210	Introduction to Exceptionalities and Special Education (3)
Core 2	World Civilizations: (GEOG 101 recommended) (3)
TOTAL 15 sem. hrs.	

Third Semester

ECED244	Building partnerships that Support Young Children (3)
ECED270	Literacy Foundations Grades 1-4 (3)
SPED240	Managing Inclusive Learning Environments (3)
Core 3	American Civilizations (HIST 262 recommended) (3)
Core 5	Cultural Diversity: SEDU 271 (Required) (3)
TOTAL 15 sem. hrs.	

Fourth Semester

SPED320	High Incidence Disabilities (3)
SPED340	Low Incidence Disabilities (3)
SPED350	Language and Literacy Skills for Students with Disabilities (3)
SPED370	Adaptations and Accommodations in Inclusive Classrooms (3)
Core 7	Natural Science: (Phys 101 recommended) (3)
TOTAL 15 sem. hrs.	

Associate of Science Degree

Preschool Education

The Department of Early Childhood and Special Education prepares preschool teachers and assistants for the Commonwealth of Pennsylvania in the area of preschool education. Upon completion of 60 credit hours, the candidate is granted an Associate of Science degree in Preschool education

I.	General Education Requirements	24 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101 College Writing Skills (3)	
	ENGL102 Writing and Research Skills (3)	
	MATH110 Math Reasoning I (3)	
	SEDU183 Education Tech/Comp. Lit. (3)	
B.	Core	12 sem. hrs.
1.	World Civilizations	
	GEOG101 World Geography (3)	
2.	American Civilizations	
	HIST261 U.S. History I (3)	
	OR	
	HIST262 U.S. History II (3)	
3.	Human Behavior	
	PSYC101 General Psychology (3)	
4.	Cultural Diversity & Social Pluralism	
	SEDU271 Multicultural American Schools (3)	
II.	ECED Competency Areas	33 sem. hrs.
	ECED110 Child Development I (3)	
	ECED120 Introduction to Early Childhood Education (3)	
	ECED150 Child Development II (3)	
	ECED200 Planning, Designing and Maintaining the Early Learning Environment (3)	
	ECED210 Play and Active Learning Approaches to ECE (3)	
	ECED244 Building Partnerships that Support Young Children (3)	
	<u>PRE-K/K Block with 74 Hours of Field</u>	
	ECED341 Language and Literacy (3)	

ECED342	Integrating Math and Science in the Early Years (3)	
ECED343	Creative Expressive Arts (3)	
ECED345	Advocacy and Guidance (3)	
ECED381	Observation Documentation and Assessment in Early Childhood Education (3)	
III.	Special Education Competency Area	3 sem. hrs.
	SPED210 Introduction to Exceptionalities (3)	
TOTAL		60 sem. hrs.

ASSOCIATE OF SCIENCE – PRESCHOOL EDUCATION (Suggested Four-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)*	
MATH110	Mathematical Reasoning I (3)	
PSYC101	General Psychology (3)*	
SEDU183	Educational Tech/Comp Lit. (3)	
	Other core General Education Course (3)	
TOTAL		15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research (3)	
ECED110	Child Development I (3)	
ECED120	Introduction to ECE (3)	
SPED210	Introduction to Exceptionalities (3)	
	Other core General Education Course (3)	
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)	
ECED244	Building Partnerships That Support Young Children (6 hours of field) (3)	
	Other core General Education Course (3)	
TOTAL		15 sem. hrs.

Fourth Semester

PreK/K Block	***75 hours of field***	
ECED341	Language and Literacy (3)	
ECED342	Integrating Math and Science (3)	
ECED343	Creative Expressive Arts (3)	
ECED345	Advocacy and Guidance (3)	
ECED381	Observation, Documentation and Assessment in EDE (3)	
TOTAL		15 sem. hrs.

Bachelor of Science in Education Degree

Early Childhood Education

The program in Early Childhood Education prepares candidates to meet the needs of students PreK through grade 4 in schools of the Commonwealth of Pennsylvania. Students are required to meet Edinboro University's guidelines for "Admission to Teacher Candidacy." Upon completion of the competencies in Early Childhood Education and 120 credit hours, the student is awarded a Bachelor of Science in Education degree. After successfully passing the designated national teacher examinations and meeting other Pennsylvania Department of Education requirements, students are recommended to the Commonwealth for teaching certification.

CERTIFICATION IN EARLY CHILDHOOD EDUCATION

I.	General Education Requirements	48 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101 College Writing (3)	
	ENGL102 Writing and Research (3)	
	MATH110 Math Reasoning I (3)	
	SEDU183 Education Tech/Comp. (3)	
B.	Core	21 sem. hrs.
	**Artistic Expression (3)*	
	World Civilizations - GEOG101 (3)	
	American Civilizations - HIST261 or HIST262 (3)	
	Human Behavior - PSYC101 (3)	
	Cultural Diversity and Social Pluralism (3)	

***SEDU 271 Multicult Am Schools

Ethics (3)

Natural Science - PHYS101 (3)

C. Distribution 12 sem. hrs.

**Humanities and Fine Arts (3)*

Social and Behavioral Sciences (3) (must be 300 level or above)

Natural Sciences and Mathematics (6)

BIOL102 (3)

**MATH210 Math Reasoning II (3)

D. Health and Physical Education Wellness (3) 3 sem. hrs.

II. Professional Education 72 sem. hrs.

A. **ECED COMPETENCY AREAS**

ECED110 Child Development I (3)

ECED120 Introduction to Early Childhood Education (3)

ECED150 Child Development II (3)

ECED200 Plan/Design/ Maintain Early Lrng Envi (3)

ECED210 Play and Active Learning Approaches to ECE (3)

ECED244 Bldg Partnerships/Young Children (3)

ECED270 Literacy Foundations Grades 1-4 (3)

ECED290 Language Arts Grades 1-4 (3)

ECED495 Student Teaching (12)

Pre-K/K Block with 75 Hours of field

ECED341 Language and Literacy (3)

ECED342 Integrating Math/Science Early Years (3)

ECED343 Creative Expressive Arts (3)

ECED345 Advocacy and Guidance (3)

ECED381 Observ/Doc/Assess Early Childhood Ed (3)

Primary/Methods Courses Block with 75 Hours of field

ECED340 Methods of Teaching Social Studies (3)

ECED350 Learning and Teaching Math in Grades 1-4 (3)

ECED360 Learning and Teaching Science in Grades 1-4 (3)

ECED370 Differentiated Reading in Grades 1-4 (3)

ECED380 Data Driven Assessment for Student Learning (3)

B. **SPECIAL EDUCATION COMPETENCY AREAS**

SPED210 Introduction to Exceptionalities (3)

SPED370 Adaptations and Accommodations (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
(Suggested Eight-Semester Sequence)**

First Semester

PSYC101 General Psychology (3)
ENGL101 College Writing Skills (3)
MATH110 Math Reasoning (3)
SEDU271 Multicultural Am Schools (3)
General education course (3)
Freshman Common hour

TOTAL 15 sem. hrs.

Second Semester

ECED110 Child Development I (3)
ECED120 Introduction to ECE (3)
SPED210 Introduction to Exceptionalities (3)
ENGL102 Writing/Research (3)
MATH210 Mathematical Reasoning II (3)

TOTAL 15 sem. hrs.

Third Semester

ECED150 Child Development II (3)
SEDU183 Tech for Teach/Learn (3)
English Literature Course (3)
General Education Courses (6)

TOTAL 15 sem. hrs.

Fourth Semester

ECED200 Planning, Designing and Managing the EC Learning Environment (3)
ECED210 Play and Active Learning Approaches to ECE (3)
ECED244 Building Partnerships that Support Young Children (3)
General Education Courses (6)

Each education course requires six hours of field

TOTAL 15 sem. hrs.

Fifth Semester

PK/K Block: Must take all five courses and 75 Hours Field
ECED341 Language and Literacy (3)
ECED342 Integrating Math and Science in the Early Years (3)
ECED343 Creative Expressive Arts (3)
ECED345 Advocacies and Guidance (3)
ECED381 Observation, Documentation and Assessment in ECE 3 credits

TOTAL 15 sem. hrs.

Sixth Semester

ECED270 Literacy Foundations Grades 1-4 (3)
ECED290 Language Arts Grades 1-4 (3)
General Education Courses (9)
*** 270 and 290 must be taken concurrently and have 6 hours of field***

TOTAL 15 sem. hrs.

Seventh Semester

Primary Methods Block: Must take all five courses with 75 hours 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)
ECED370 Differentiating Reading Instruction Grades 1-4 (3)
ECED380 Data Driven Assessment for Student Learning (3)
SPED370 Adaptations and Accommodations (3)

TOTAL 18 sem. hrs.

Eighth Semester

ECED495 Student Teaching (12)

TOTAL 12 sem. hrs.

CERTIFICATION IN EARLY CHILDHOOD (P-4) AND SPECIAL EDUCATION (P-8)

The program in Early Childhood and Special Education prepares candidates to meet the needs of students in Early Childhood (PreK through grade 4) and Special Education (PreK through grade 8) in schools of the Commonwealth of Pennsylvania. State teacher certification in special education indicates that, dependent upon program, an individual is qualified to teach children in grades PreK through 8 who have disabilities (e.g., learning disabilities, developmental disabilities, autism, emotional/behavioral disorders, other health impairments, and multiple disabilities). However, this program does not address students with hearing and visual impairments. Students take a wide variety of general education and professional education courses, and engage in numerous practicum experiences in area school districts and other appropriate clinical or educational settings. Students are required to meet Edinboro University's guidelines for "Admission to Teacher Candidacy."

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 48 sem. hrs.
A. Skills 12 sem. hrs.
ENGL101 College Writing (3)
**ENGL102 Writing and Research (3)
MATH110 Math Reasoning I (3)
SEDU183 Tech. for Teaching and Learning (3)
B. Core 21 sem. hrs.
** Artistic Expression – *Literature* (3)
World Civilizations – GEOG101 (3)
American Civilizations – HIST262 (3)

Human Behavior – PSYC101 (3)		
Cultural Diversity and Social Pluralism – SEDU271 (3)		
Ethics (3)		
Natural Science – PHYS101 (3)		
C. Distribution		12 sem. hrs.
** Humanities and Fine Arts – <i>Literature</i> (3)		
Social and Behavioral Sciences (3)		
Natural Science and Mathematics (6)		
BIOL102 (3)		
MATH210 (3)		
D. Health and Physical Education		3 sem. hrs.
II. Early Childhood Education		42 sem. hrs.
ECED120 Introduction to Early Childhood Education (3)		
ECED150 Child Development (3)		
ECED210 Play and Active Learning approaches to ECE (3)		
ECED244 Building Partnerships that Support Young Children (3)		
ECED270 Literacy Foundation Grades 1-4 (3)		
ECED290 Language Arts Grades 1-4 (3)		
PreK/K Block		
ECED341 Language and Literacy (3)		
ECED342 Integrating Math and Science in the Early Years (3)		
ECED343 Creative Expressive Arts (3)		
ECED345 Advocacy and Guidance (3)		
P- 4 Block		
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)		
ECED380 Data Driven Assessment for Student Learning (3)		
III. Special Education		33 sem. hrs.
** SPED210 Introduction to Exceptionalities and Special Education (3)		
SPED240 Managing Inclusive Learning Environments (3)		
SPED320 High Incidence Disabilities (3)		
SPED340 Low Incidence Disabilities (3)		
SPED350 Language and Literacy Skills for Students with Disabilities (3)		
SPED360 Instructional Planning and Strategies in Special Education (3)		
SPED370 Adaptations and Accommodations in Inclusive Classrooms (3)		
Special Education Block		
SPED410 Positive Behavior Supports and Interventions (3)		
SPED420 Assessment of Students with Disabilities (3)		
SPED430 Collaboration and IEP Development (3)		
SPED440 Field Experience in Special Education (3)		
VI. Professional Education		12 sem. hrs.
SPED495 Student Teaching (Sp.Ed.) (6)		
ECED495 Student Teaching (PK/K-4) (6)		
To be completed the same semester		
	TOTAL	135 sem. hrs.

**Courses with 2 asterisks are required for candidacy

**BACHELOR OF SCIENCE EARLY CHILDHOOD EDUCATION (P-4)
AND SPECIAL EDUCATION (P-8)
(Suggested Eight-Semester Sequence)**

First Semester

ENGL101	College Writing Skills (3)	
MATH110	Math Reasoning I (3)	
PSYC101	General Psychology (3)	
SEDU271	Multiculturalism in American Schools (3)	
	General Education: Core Course (3)	
	Freshman Common Hour (0)	
	TOTAL	15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
MATH210	Math Reasoning II (3)	
ECED150	Child Development II (3)	
ECED120	Introduction to Early Childhood Education (3)	
SPED210	Introduction to Exceptionalities and Special Education (3)	
	General Education: Core Course (3)	
	TOTAL	18 sem. hrs.

Third Semester

SPED240	Literature Course Core 1 (3)	
SEDU183	Managing Inclusive Learning Environments (3)	
	Tech for Teaching and Learning (3)	
	General Education (9)	
	TOTAL	18 sem. hrs.

Fourth Semester

SPED320	High Incidence Disabilities (3)	
SPED340	Educating with Low Incidence Disabilities (3)	
ECED210	Play and Active Learning Approaches to Early Childhood Ed (3)	
ECED244	Building Partnerships that Support Young Children (3)	
	General Education (6)	
	TOTAL	18 sem. hrs.

Fifth Semester

ECED341	PRE K/K Block:	
ECED342	Language and Literacy (3)	
ECED343	Integrating Math and Science in The Early Years (3)	
ECED345	Creative Expression Arts (3)	
SPED350	Advocacy and Guidance (3)	
	Language and Literacy Skills for Exceptional Students (3)	
SPED360	Instructional Planning Strategies (3)	
	TOTAL	18 sem. hrs.

Sixth Semester

SPED410	SPED BLOCK:	
SPED420	Positive Behavior Supports and Interventions (3)	
SPED430	Assessment of Students with Disabilities (3)	
SPED440	Collaboration and IEP Development (3)	
ECED290	Field Experience in Special Education (3)	
ECED270	Language Arts grades 1-4 (3)	
	Literacy Foundations Grade 1-4 (3)	
	TOTAL	18 sem. hrs.

Seventh Semester

ECED340	P-4 Block:	
ECED360	Methods of Teaching Social Studies (3)	
ECED350	Learning & Teaching Science Grades 1-4 (3)	
ECED380	Learning & Teaching Math Grades 1 - 4 (3)	
SPED370	Data Driven Assessment for Student Learning (3)	
	Adaptations and Accommodations in Inclusive Settings (3)	
	General Education course: (3)	
	TOTAL	18 sem. hrs.

Eighth Semester

SPED495	Student Teaching in Special Education P-8 (6)	
ECED495	Student Teaching in PK/K-4 (6)	
	TOTAL	12 sem. hrs.

Elementary, Middle and Secondary Education Department

FACULTY: Kathleen Benson, Nancy Briggs, Dennis E. Buckwalter, John Criswell, Charles W. Cross, Jo Ann Holtz, Jacqueline Power, Gwyneth Price, Thomas John Roden, Nicholas Stupiansky, William Weber

The Department of Elementary, Middle and Secondary Education provides prospective teacher candidates with the essential professional education courses as well as carefully planned experiences in the public schools to enable them to successfully enter the world of professional educators in our public schools.

In addition it helps prospective teachers to become informed concerning the general background discipline, including such studies as historical, philosophical, psychological, methodological and social foundations of education. These studies affect the teachers' success in meeting the educational needs of their students and in assisting them in solving the problems of leading a worthwhile life in our contemporary society.

Successful applicants for Pennsylvania teaching certification must achieve passing scores on the:

1. Pre-professional skills - reading
2. Pre-professional skills - writing
3. Pre-professional skills - mathematics
4. Specialty area exam appropriate to the applicants' field of certification.

PROGRAMS IN ELEMENTARY, 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 the secondary school.

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 behaviors.
4. Measurement and evaluation as a process for analysis and decision making in the classroom.
5. Those clinical experiences and applications associated with pre-professional field experiences and student teaching.

Each Middle and Secondary Education curriculum includes in its four-year program an area of specialization in which students can be certified to teach. These are as follows:

Middle Level Education:

English/Language Arts & Reading
 Mathematics
 Science
 Social Studies
 Math and English/Language Arts & Reading
 Math and Science
 Math and Social Studies
 Science and English/Language Arts & Reading
 Science and Social Studies

Secondary Education:

Biology
 Chemistry
 Comprehensive English
 Earth/Space Science
 Foreign Languages German
 Foreign Languages Spanish
 General Science
 Mathematics
 Physics
 Social Studies

A student in Middle and Secondary Education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

Courses in specialization areas may be used, where appropriate, and as defined below, to meet General Education requirements thus students to complete degrees within or close to the minimum 120 hours required for graduation. This requires careful planning.

All middle and secondary education majors must complete a three semester hour literature course in addition to ENGL101 and ENGL102, and two math courses at the 100 level or above to comply with PDE certification requirements.

The State Board of Education adopted changes that affect all of Pennsylvania's teacher certification programs by adding nine credits or 270 hours or equivalent combination for adaptations and accommodations for diverse students in an inclusive setting and three credits or 90 hours or equivalent combination to meet the instructional needs of English Language Learners. Although these regulatory changes became effective on September 22, 2007, the Pennsylvania Department of Education has not yet developed **final** requirements for

colleges/universities to follow. Therefore, additional program requirements will be developed and incorporated into your certification program to comply with new regulations for certifying teachers that become effective on January 1, 2013.

The programs in middle level education (grades 4-8) and secondary education (grades 7-12) prepare candidates to meet the needs of students in schools of the Commonwealth of Pennsylvania. As a result of new state law, the "Elementary" component of this department is available only to students enrolled before July 2010 in an elementary major. Beginning August 2010, the Elementary, Middle and Secondary Education Department only provide programs for middle level and secondary education. Teacher candidates in middle level and secondary education are provided with essential professional education courses as well as carefully planned experiences in public schools. Students are required to meet Edinboro University's guidelines for "Admission to Teacher Candidacy." Upon completion of the competencies in Middle Level or Secondary education, the student is awarded a Bachelor of Science in Education degree. After successfully passing the designated national teacher examinations and meeting other Pennsylvania Department of Education requirements, students are recommended to the Commonwealth for teaching certification.

MIDDLE LEVEL - The middle level concentration for education majors includes four Option 1 concentrations and five Option 2 concentrations. Option 1 concentrations are designed specifically for one concentration area. Option 2 concentrations include a high-need content area (math and/or science) plus a second content area.

OPTION 1 - Edinboro University of Pennsylvania will provide for teacher candidates in middle level education the Option 1 concentrations as outlined in the Pennsylvania Department of Education framework. These include one concentration and three generalist academic content areas. In addition, content courses in the specialty areas are aligned with the PA Academic standards and assessment anchors. This option requires teacher candidates to complete a minimum of 30 credit hours in their program of concentration and 12 credits in each of the remaining three areas. Evidence of meeting these requirements in the content areas can be found by examining the course of studies as outlined below.

Middle Level – Option 1 – includes the following programs:

- English/Language Arts & Reading
- Mathematics
- Science
- Social Studies

BACHELOR OF SCIENCE IN EDUCATION

Area of Certification – Middle Level English/Language Arts & Reading

I. General Education Requirements		48 sem. hrs.
A. Skills		12 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH110	Math Reasoning I (3)	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		21 sem. hrs.
	Artistic Expression – ENGL118 (3)	
	World Civilizations – HIST101, HIST102 or GEOG101 (3)	
	American Civilizations – HIST261, HIST262 or GEOG260 (3)	
	Human Behavior – PSYC101 (3)	
	Cultural Diversity and Social Pluralism – SEDU271 (3)	
	Ethics (3)	
	Natural Science (3)	
C. Distribution		12 sem. hrs.
	Humanities and Fine Arts – ENGL201 or ENGL202 (3)	
	Social and Behavioral Sciences – HIST380 (3)	
	Natural Sciences and Mathematics (Science only) (6)	
D. Health and Physical Education		3 sem. hrs.
	Health Lecture and Activity (3) 3 sem. hrs.	
II. Professional Education		43 sem. hrs.
SPED210	Intro to Exception & Special Ed (3)	
MLED306	Literacy and the Young Adolescent (4)	
MLED350	Characteristics ML Learners (3)	
MLED360	Dev. Appropriate ML Feat/Prac (3)	
SPED370	Adapt/Accom Inclusive Clssrm (3)	
MLED381	Assessment for Learning Young Adoles (3)	
MLED466	Integrated Lang Arts/Soc St ML (3)	

MLED467	Integrated Math/Science ML (3)		
MLED475	Middle Level Field Experience (3)		
MLED491	ML Classroom Community (3)		
MLED495	Student Teaching (12)		
III.	Specialization in English	31 sem. hrs.	
A.	Required Courses	18 sem. hrs.	
	ENGL205	Multi Ethnic American Lit (3)	
	ENGL211	Traditional Grammar (3)	
	ENGL241 or 242	British Lit Survey I or II (3)	
	ENGL525	Composition Theory (3)	
	ENGL545	Adolescent Literature (3)	
	THEA218	Intro to Theatre (3)	
B.	Supporting Courses	13 sem. hrs.	
	MATH100	Intermediate Algebra (3)	
	MATH210	Mathematical Reasoning I (3)	
	MATH260	Elements of Statistics (3)	
	Science (Lab) (4)		
	TOTAL	122 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.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL
ENGLISH/LANG ARTS & READING
(Suggested Eight-Semester Sequence)**

First Semester

ENGL101	College Writing Skills (3)		
PSYC101	General Psychology (3)		
MATH100	Intermediate Algebra (3)		
ENGL118	Intro to Poetry (3)		
	HPE Elective (3)		
	Common Hour		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Writing and Research (3)		
MATH110	Math Reasoning I (3)		
SEDU183	Technology for Teaching and Learning (3)		
SEDU271	Multiculturalism in American Schools (3)		
	Core 7 Natural Science (any) (3)		
	TOTAL	15 sem. hrs.	

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed (3)		
ENGL205	Multi Ethnic American Literature (3)		
HIST101	World Civilizations I (3)		
Or			
HIST102	World Civilizations II		
Or			
GEOG101	World Geography		
ENGL201	American Literature Survey I (3)		
Or			
ENGL 202	American Literature Survey II		
	Distribution 3 Science (3)		
	(both courses in this distribution must have the same prefix)		
	TOTAL	15 credits	

Junior Year

Fourth Semester

MATH210	Mathematical Reasoning II (3)		
ENGL211	Traditional Grammar (3)		
ENGL241	British Literature Survey I (3)		
Or			
ENGL242	British Literature Survey II		
ETHICS	Core 6 Ethics (3)		
	Distribution 3 Science (3)		
	(must have the same prefix as course previous semester)		
	TOTAL	15 credits	

Fifth Semester

HIST261	History of U. S. I (3)		
	Or		
HIST262	History of U. S. II		
	Or		
GEOG260	Geography of U.S. and Canada		
SCIENCE	Laboratory Course (any)(4)		
ENGL525	Composition Theory (3)		
MLED350	Characteristics of ML Learners (3)		
MLED360	Devel Appropriate Features & Prac (3)		
	TOTAL	16 credits	

Sixth Semester

THEA218	Introduction to Theatre(3)		
ENGL545	Adolescent Literature (3)		
HIST380	History (3)		
MLED306	Literacy and the Young Adolescent (4)		
MATH260	Elements of Statistics (3)		
	TOTAL	16 credits	

Seventh Semester

SPED370	Adapt/Accom in Inclusive Claims (3)		
MLED381	Assess for Learning of Young Adoles (3)		
MLED466	Integra LgArts & SocStud ML Learner (3)		
MLED467	Integra Math/ Science ML Learner (3)		
MLED475	Middle Level Field (3)		
	TOTAL	15 credits	

Eighth Semester

MLED491	ML Classroom Community	3 credits	
MLED495	Student Teaching	12 credits	
	TOTAL	15 credits	

**BACHELOR OF SCIENCE IN EDUCATION AREA OF
CERTIFICATION – MIDDLE LEVEL MATHEMATICS: OPTION 1**

I.	General Education Requirements	49 sem. hrs.	
A.	Skills	13 sem. hrs.	
	ENGL101	College Writing Skills (3)	
	ENGL102	Specialized College Writing and Research Skills (3)	
	MATH107	Pre Calculus (4)	
	SEDU183	Tech. for Teaching and Learning (3)	
B.	Core	21 sem. hrs.	
	Artistic Expression (3)		
	World Civilizations – HIST101, HIST102 or GEOG101 (3)		
	American Civilizations – HIST261, HIST262 or GEOG260 (3)		
	Human Behavior – PSYC101 (3)		
	Cultural Diversity and Social Pluralism – SEDU271 (3)		
	Ethics (3)		
	Natural Science (3)		
C.	Distribution	12 sem. hrs.	
	Humanities and Fine Arts – English Lit 300 level or above (3)		
	Social and Behavioral Sciences – HIST380 (3)		
	Natural Sciences and Mathematics (6)		
D.	Health and Physical Education	3 sem. hrs.	
	Health Lecture and Activity (3)		
II.	Professional Education	43 sem. hrs.	
	SPED210	Intro to Exception & Special Ed (3)	
	MLED306	Literacy and the Young Adolescent (4)	
	MLED350	Characteristics ML Learners (3)	
	MLED360	Dev. Appropriate ML Feat/Prac (3)	
	SPED370	Adapt/Accom Inclusive Clssrm (3)	
	MLED381	Assessment for Learning Young Adoles (3)	
	MLED466	Integrated Lang Arts/Soc St ML (3)	
	MLED467	Integrated Math/Science ML (3)	
	MLED475	Middle Level Field Experience (3)	
	MLED491	ML Classroom Community (3)	
	MLED495	Student Teaching (12)	
III.	Specialization in Math	30 sem. hrs.	
A.	Required Courses	26 sem. hrs.	
	MATH211	Analytical Geom. & Calculus I (4)	
	MATH212	Analytical Geom. & Calculus II (4)	
	MATH270	Discrete Mathematics I (3)	
	MATH275	Linear Algebra I (3)	

126/Curricula and Organization

MATH250 Informal Geometry (3)
 MATH300 Applied Statistical Methods (3)
 MATH403 Math for Sec. Sch. Teachers (3)
 MATH 404 Comp. and Calc. Sec. Curric. (3)

B. Supporting Courses 4 sem. hrs.
 Science (Lab) (4)

TOTAL 122 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.

BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATHEMATICS: OPTION 1

(Suggested Eight-Semester Sequence)

ENGL101 College Writing Skills (3)
 PSYC101 General Psychology (3)
 MATH107 Pre Calculus (4)
 SEDU183 Technology for Teaching and Learning (3)
 HPE Elective (3)
 Common Hour

TOTAL 16 sem. hrs.

Second Semester

ENGL102 Writing and Research (3)
 MATH211 Analytic Geometry & Calc I (3)
 HIST101 World Civilizations I (3)
 Or
 HIST102 World Civilizations II
 Or
 GEOG101 World Geography
 SEDU271 Multiculturalism in American Schools (3)
 Core 7 Natural Science (any) (3)

TOTAL 16 sem. hrs.

Third Semester

SPED210 Intro to Exceptionalities/Spec Ed (3)
 MATH212 Analytical Geometry and Calculus II (3)
 MATH275 Linear Algebra I I (3)
 Artistic Expression Core 1 (any)
 SCIENCE Distribution 3 Science (3)
 (both courses in this distribution must have the same prefix)

TOTAL 16 credits

MATH250 Informal Geometry (3)
 MATH270 Discrete Mathematics (3)
 ENGL Literature 300 Level or Above (3) (fulfills Distribution 1)
 ETHICS Core 6 Ethics (3)
 SCIENCE Distribution 3 Science (3)
 (must have the same prefix as course previous semester)

TOTAL 15 credits

Fifth Semester

HIST261 History of U. S. I (3)
 OR
 HIST262 History of U. S. II
 OR
 GEOG260 Geography of U.S. and Canada
 MATH300 Applied Statistical Methods (4)
 MATH403 Math for the Sec. School Teacher (3)
 MLED350 Characteristics of ML Learners (3)
 MLED360 Devel Appropriate Features & Prac (3)

TOTAL 15 credits

Sixth Semester

MATH404 Comp/Calc Sec. Curr. (3)
 HIST380 Pennsylvania History (3)
 MLED306 Literacy and the Young Adolescent (4)
 SCIENCE Science Lab (4)

TOTAL 14 credits

Seventh Semester

SPED370 Adapt/Accom in Inclusive Classrms (3)
 MLED381 Assess for Learning of Young Adoles (3)
 MLED466 Integra LgArts & SocStud ML Learner (3)
 MLED467 Integra Math/ Science ML Learner (3)
 MLED475 Middle Level Field (3)

TOTAL 15 credits

Eighth Semester

MLED491 ML Classroom Community 3 credits
 MLED495 Student Teaching 12 credits

TOTAL 15 credits

BACHELOR OF SCIENCE IN EDUCATION

Area of Certification – Middle Level Science: Option 1

I. General Education Requirements 48 sem. hrs.
 A. Skills 12 sem. hrs.
 ENGL101 College Writing Skills (3)
 ENGL102 Specialized College Writing and Research Skills (3)
 MATH105 College Algebra (3)
 SEDU183 Tech. for Teaching and Learning (3)
 B. Core 21 sem. hrs.
 Artistic Expression (3)
 World Civilizations – HIST101, HIST102 or GEOG101 (3)
 American Civilizations – HIST261, HIST262 or GEOG260 (3)
 Human Behavior – PSYC101 (3)
 Cultural Diversity and Social Pluralism – SEDU271 (3)
 Ethics (3)
 Natural Science – GEOS101(3)
 C. Distribution 12 sem. hrs.
 Humanities and Fine Arts – English Lit 300 level or above (3)
 Social and Behavioral Sciences – HIST380 (3)
 Natural Sciences and Mathematics – MATH208 & MATH260 (6)
 D. Health and Physical Education 3 sem. hrs.
 Health Lecture and Activity (3)
 II. Professional Education 43 sem. hrs.
 SPED210 Intro to Exception & Special Ed (3)
 MLED306 Literacy and the Young Adolescent (4)
 MLED350 Characteristics ML Learners (3)
 MLED360 Dev. Appropriate ML Feat/Prac (3)
 SPED370 Adapt/Accom Inclusive Clssrm (3)
 MLED381 Assessment for Learning Young Adoles (3)
 MLED466 Integrated Lang Arts/Soc St ML (3)
 MLED467 Integrated Math/Science ML (3)
 MLED475 Middle Level Field Experience (3)
 MLED491 ML Classroom Community (3)
 MLED495 Student Teaching (12)
 III. Specialization in General Science 31 sem. hrs.
 A. Required Courses 28 sem. hrs.
 BIOL103 Principles of Biology (4)
 BIOL230 Botany
 or
 BIOL240 Zoology (4)
 CHEM140 General Chemistry (4)
 GEOS109 Atmospheric & Space Sci (3)
 PHYS101 Physical Science (3)
 PHYS271 Frontiers in Astronomy (3)
 Field Course (300 level or above) (3)
 Science Lab (4)
 B. Supporting Courses 3 sem. hrs.
 MATH250 Informal Geometry (3)
 TOTAL 122 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.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL
SCIENCE: OPTION 1****(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)		
PSYC101	General Psychology (3)		
MATH105	College Algebra (3)		
BIOL103	Principles of Biology (4)		
	HPE Elective (3)		
	Common Hour		
	TOTAL	16 sem. hrs.	

Second Semester

ENGL102	Writing and Research (3)		
SEDU183	Technology for Teaching and Learning (3)		
HIST101	World Civilizations I (3)		
Or			
HIST102	World Civilizations II		
Or			
GEOG101	World Geography		
SEDU271	Multiculturalism in American Schools (3)		
MATH208	Essentials of Calculus (3)		
	TOTAL	15 sem. hrs.	

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed (3)		
BIOL230	Botany (4)		
Or			
BIOL240	Zoology (4)		
MATH250	Informal Geometry (3)		
PHYS101	Physical Science (3)		
Artistic Expression	Core 1 (any) (3)		
	TOTAL	16 credits	

Fourth Semester

MATH260	Elements of Statistics (3)		
CHEM140	General Chemistry (4)		
ENGL Literature	300 Level or Above (3) (fulfills Distribution 1)		
ETHICS	Core 6 Ethics (3)		
GEOS101	Dynamic Earth (3)		
	TOTAL	16 credits	

Fifth Semester

HIST261	History of U. S. I (3)		
OR			
HIST262	History of U. S. II		
OR			
GEOG260	Geography of U.S. and Canada		
GEOS109	Atmospheric & Space Science (3)		
MLED350	Characteristics of ML Learners (3)		
MLED360	Devel Appropriate Features & Prac (3)		
SCIENCE	Laboratory (any) (4)		
	TOTAL	16 credits	

Sixth Semester

HIST380	Pennsylvania History (3)		
PHYS271	Frontiers of Astronomy (3)		
MLED306	Literacy and the Young Adolescent (4)		
SCIENCE	Field Course (3)		
	TOTAL	13 credits	

Seventh Semester

SPED370	Adapt/Accom in Inclusive Classrms (3)		
MLED381	Assess for Learning of Young Adoles (3)		
MLED466	Integra LgArts & SocStud ML Learner (3)		
MLED467	Integra Math/ Science ML Learner (3)		
MLED475	Middle Level Field (3)		
	TOTAL	15 credits	

Eighth Semester

MLED491	ML Classroom Community	3 credits	
MLED495	Student Teaching	12 credits	
	TOTAL	15 credits	

BACHELOR OF SCIENCE IN EDUCATION**Area of Certification – Middle Level Social
Studies Option 1**

I. General Education Requirements		48 sem. hrs.	
A. Skills		12 sem. hrs.	
ENGL101	College Writing Skills (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH110	Math Reasoning I (3)*		
SEDU183	Tech. for Teaching and Learning (3)		
B. Core		21 sem. hrs.	
Artistic Expression			
World Civilizations - HIST101	World Civ I (3)		
American Civilizations- HIST261	History of U.S. I (3)		
Human Behavior - PSYC101	General Psychology (3)		
Cultural Diversity and Social Pluralism - SEDU271	Multicult Amer Schools (3)		
Ethics (3)			
Natural Science - Science (3)			
C. Distribution		12 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 -must have same prefix Science (3)			
Science (300 level or above) (3)			
D. Health and Physical Education		3 sem. hrs.	
Health Lecture and Activity (3)			
II. Professional Education		43 sem. hrs.	
SPED210	Intro to Exception & Special Ed (3)		
MLED306	Literacy and the Young Adolescent (4)		
MLED350	Characteristics ML Learners (3)		
MLED360	Dev. Appropriate ML Feat/Prac (3)		
SPED370	Adapt/Accom Inclusive 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 Social Studies		31 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)		
POLI240	Comparative Government (3)		
IV. Required Supporting Courses		13 sem. hrs.	
MATH100	Intermediate Algebra (3)		
MATH210	Mathematical Reasoning I (3)		
MATH260	Elements of Statistics (3)		
Science (Lab) (4)			
	TOTAL	122 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.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL
SOCIAL STUDIES****(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)	3 credits	
PSYC101	General Psychology (3)	3 credits	
MATH100	Intermediate Algebra (3)	3 credits	
GEOG101	World Geography (3)	3 credits	
HPE	Health Lecture & Activity	3 credits	
	Freshman Common Hour		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Writing and Research	3 credits
MATH110	Math Reasoning I	3 credits
SEDU183	Technology for Teaching and Learning	3 credits
SEDU271	Multiculturalism in American Schools	3 credits
Core 7	Natural Science (any)	3 credits
TOTAL		15 credits

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed	3 credits
ECON100	Elements of Economics	3 credits
HIST101	World Civilizations I	3 credits
Core 1	Artistic Expression (any)	3 credits
Distribution 3	Science	3 credits
TOTAL		15 credits

Fourth Semester

MATH210	Mathematical Reasoning II	3 credits
POLI201	American Government	3 credits
HIST102	World Civilizations II	3 credits
Core 6	Ethics	3 credits
Distribution 3	Science	3 credits
	must have the same prefix as course	
TOTAL		15 credits

Fifth Semester

HIST261	History of U. S. I	3 credits
MATH260	Elements of Statistics	3 credits
SCIENCE	Laboratory Course (any)	4 credits
MLED350	Characteristics of ML Learners	3 credits
MLED360	Devel Appropriate Features & Prac	3 credits
TOTAL		16 credits

Sixth Semester

HIST380	Pennsylvania History	3 credits
HIST262	History of U.S. II	3 credits
Distribution 1	ENGL literature 300 level or above	3 credits
MLED306	Literacy and the Young Adolescent	4 credits
POLI240	Intro to Comparative Govt	3 credits
TOTAL		16 credits

Seventh Semester

SPED370	Adapt/Accom in Inclusive Clarms	3 credits
MLED381	Assess for Learning of Young Adoles	3 credits
MLED466	Integra LgArts & SocStud ML Learner	3 credits
MLED467	Integra Math/ Science ML Learner	3 credits
MLED475	Middle Level Field	3 credits
TOTAL		15 credits

Eighth Semester

MLED491	ML Classroom Community	credits
MLED495	Student Teaching	12 credits
TOTAL		15 credits

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		48 sem. hrs.
A. Skills		12 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	College Writing and Research Skills (3)	
MATH105	College Algebra (3)	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		21 sem. hrs.
	Artistic Expression – ENGL118 Intro to Poetry (3)	
	World Civilizations – HIST101 or HIST102 World Civ I or II) or GEOG101 World Geography (3)	
	American Civilizations – HIST261 or HIST262 U.S. History I or II or GEOG260 Geography of U.S. and Canada (3)	
	Human Behavior – PSYC101 General Psychology (3)	
	Cultural Diversity and Social Pluralism – *SEDU271 Multicult Am Schools (3)	
	Ethics (3)	
	Natural Science – Science (3)	
C. Distribution		12 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) Science (3)	
	Science (3)	
	(Must be the same prefix)	
D. Health and Physical Education		3 sem. hrs.
	Health Lecture and Activity (3)	
	Or	
	Health Lecture (2)	
	And	
	Phy. Ed. Activity (1)	
	<i>*Fulfills Core 5 for Education majors only</i>	
II. Professional Education		43 sem. hrs.
SPED210	Intro to Exception & Special Ed (3)	
MLED306	Literacy and the Young Adolescent (4)	
MLED350	Characteristics ML Learners (3)	
MLED360	Dev. Appropriate ML Feat/Prac (3)	
SPED370	Adapt/Accom Inclusive Clssrm (3)	
MLED381	Assessment for Learning Young Adoles (3)	
MLED466	Integrated Lang Arts/Soc St ML (3)	
MLED467	Integrated Math/Science ML (3)	
MLED475	Middle Level Field Experience (3)	
MLED491	ML Classroom Community (3)	
MLED495	Student Teaching (12)	
III. Specialization in Math and Language Arts		31 sem. hrs.
A. Required Courses		27 sem hrs.
ENGL205	Multi-ethnic Amer Lit (3)	
ENGL211	Traditional Grammar (3)	
ENGL545	Adolescent Lit (3)	
MATH208	Essentials of Calculus (3)	
MATH270	Discrete Mathematics I (3)	
MATH275	Linear Algebra I (3)	
MATH250	Informal Geometry (3)	
MATH260	Elements of Statistics (3)	
MATH403	Math for Sec. Sch. Teachers (3)	
OR		
MATH404	Comp. and Calc. Sec. Curric. (3)	
B. Supporting Courses		4 sem hrs.
	Science (lab) (4)	
TOTAL		122 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.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL
MATH & ENGL/LANG ARTS & READING
(Suggested Eight-Semester Sequence)**

First Semester

ENGL101	College Writing Skills (3)
PSYC101	General Psychology (3)
MATH105	College Algebra (3)
ENGL118	Intro to Poetry (3)
HPE	Elective (3)
<i>Freshman Common Hour</i>	

TOTAL 15 sem. hrs.

Second Semester

ENGL102	Writing and Research	3 credits
MATH208	Essentials of Calculus	3 credits
SEDU183	Technology for Teaching and Learning	3 credits
SEDU271	Multiculturalism in American Schools	3 credits
SCIENCE	Core 7 Natural Science	3 credits

TOTAL 15 credits

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed	3 credits
MATH270	Discrete Mathematics I	3 credits
HIST101	World Civilizations I	
	Or	
HIST102	World Civilizations II	
	Or	
GEOG101	World Geography	3 credits
ENGL201	American Literature Survey I	
	Or	
ENGL202	American Literature Survey II	3 credits
SCIENCE	Distribution 3 (Must have same prefix as Science course in following semester)	3 Credits

TOTAL 15 credits

Fourth Semester

MATH275	Linear Algebra I	3 credits
MATH250	Informal Geometry	3 credits
ENGL205	Multi-ethnic Literature	3 credits
SCIENCE	Distribution 3 Science (must have same prefix as third semester)	3 credits
HIST261	History of U.S. I	
	OR	
HIST262	History of U.S. II	
	OR	
GEOG260	Geog of U.S. and Canada	3 credits

TOTAL 15 credits

Fifth Semester

MATH260	Elements of Statistics	3 credits
SCIENCE	Science Lab	4 credits
ETHICS	Core 6 (any)	3 credits
MLED350	Characteristics of ML Learners	3 credits
MLED 360	Devel Appropriate Features & Prac	3 credits

TOTAL 16 credits

Sixth Semester

HIST380	Pennsylvania History	3 credits
MATH403	Math for Sec. Sch. Teachers	
	OR	
MATH404	Comp. and Calc. in Sec. Curric.	3 credits
ENGL211	Traditional Grammar	3 credits
ENGL545	Adolescent Literature	3 credits
MLED306	Literacy and the Young Adolescent	4 credits

TOTAL 16 credits

Seventh Semester

SPED370	Adapt/Accom in Inclusive Clarms	3 credits
MLED381	Assess for Learning of Young Adoles	3 credits
MLED466	Integra LgArts & SocStud ML Learner	3 credits
MLED467	Integra Math/ Science ML Learner	3 credits
MLED475	Middle Level Field	3 credits

TOTAL 15 credits

Eighth Semester

MLED491	ML Classroom Community	3 credits
MLED495	Student Teaching	12 credits

TOTAL 15 credits

BACHELOR OF SCIENCE IN EDUCATION**Area of Certification – Math and Science****Option 2**

I.	General Education Requirements	51 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101 College Writing Skills (3)	
	ENGL102 College Writing and Research Skills (3)	
	MATH107 Pre Calculus (4)	
	SEDU183 Tech. for Teaching and Learning (3)	
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 General Psychology (3)	
	Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools (3)	
	Ethics (3)	
	Natural Science – GEOS101 or GEOS109 (3)	
C.	Distribution	14 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)	
	MATH212 Analyt Geom/Calc II (4)	
D.	Health and Physical Education	3 sem. hrs.
	Health Lecture and Activity (3)	
II.	Professional Education	43 sem. hrs.
	SPED210 Intro to Exception & Special Ed (3)	
	MLED306 Literacy and the Young Adolescent (4)	
	MLED350 Characteristics ML Learners (3)	
	MLED360 Dev. Appropriate ML Feat/Prac (3)	
	SPED370 Adapt/Accom Inclusive Clssrm (3)	
	MLED381 Assessment for Learning Young Adoles (3)	
	MLED466 Integrated Lang Arts/Soc St ML (3)	
	MLED467 Integrated Math/Science ML (3)	
	MLED475 Middle Level Field Experience (3)	
	MLED491 ML Classroom Community (3)	
	MLED495 Student Teaching (12)	
III.	Specialization in Math and Science	28 sem. hrs.
	MATH270 Discrete Mathematics I (3)	
	MATH250 Informal Geometry (3)	
	MATH260 Elements of Statistics (3)	
	BIOL103 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)	

TOTAL 122 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.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL
MATH AND SCIENCE
(Suggested Eight-Semester Sequence)**

First Semester

ENGL101	College Writing Skills (3)		
PSYC101	General Psychology (3)		
MATH107	Pre Calculus (4)		
GEOS101	Dynamic Earth		
Or			
GEOS109	Atmosphere/Space Sci (3)		
HPE	Elective (3)		
	Freshman Common Hour		
		TOTAL	16 sem. hrs.

Second Semester

ENGL102	Writing and	3 credits	
BIOL103	Principles of Biology	credits	
SEDU183	Technology for Teaching and Learning	3 credits	
SEDU271	Multiculturalism in American Schools	3 credits	
Core 1	Artistic Expression (any)	3 credits	

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed	3credits	
BIOL230	Botany		
Or			
BIOL240	Zoology	4 credits	
MATH211	Analytical Geometry/Calc I	4 credits	
HIST101	World Civilizations I		
Or			
HIST102	Word Civilizations II		
Or			
GEOG101	World Geography	3 credits	
		TOTAL	14 credits

Fourth Semester

MATH212	Analytic Geometry/Calc II	4 credits	
MATH250	Informal Geometry	3 credits	
CHEM1400	General Chemistry I	4 credits	
Core 6	Ethics (any)	3 credits	
		TOTAL	14 credits

Fifth Semester

MATH270	Discrete Mathematics I	3 credits	
PHYS201	Physics I	4 credits	
HIST261	History of U. S. I		
Or			
HIST262	History of U.S. II		
Or			
GEOG260	Geography of U.S. and Canada	3 credits	
MLED350	Characteristics of ML Learners	3 credits	
MLED360	Devel Appropriate Features & Prac	3 credits	
		TOTAL	16 credits

Sixth Semester

HIST380	Pennsylvania History	3 credits	
Distribution 1	English Literature 300 level or above	3 credits	
GEOS	300 level or above	3 credits	
MATH260	Elements of Statistics	3 credits	
MLED306	Literacy and the Young Adolescent	4 credits	
		TOTAL	16 credits

Seventh Semester

SPED370	Adapt/Accom in Inclusive Clarms	3 credits	
MLED381	Assess for Learning of Young Adoles	3 credits	
MLED466	Integra LgArts & SocStud ML Learner	3 credits	
MLED467	Integra Math/ Science ML Learner	3 credits	
MLED475	Middle Level Field	3 credits	
		TOTAL	15 credits

Eighth Semester

MLED491	ML Classroom Community	credits
MLED495	Student Teaching	credits

TOTAL 15 credits

BACHELOR OF SCIENCE IN EDUCATION

Area of Certification – Math and Social Studies

Option 2

I.	General Education Requirements	48 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101 College Writing Skills (3)	
	ENGL102 Specialized College Writing and Research Skills (3)	
	MATH105 College Algebra (3)	
	SEDU183 Tech. for Teaching and Learning (3)	
B.	Core	21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations – HIST101 or 102 World Civ I or II (3)	
	American Civilizations – HIST261 or 262 History of U.S. I or II (3)	
	Human Behavior – PSYC101 General Psychology (3)	
	Cultural Diversity and Social Pluralism –	
	*SEDU271 Multicult Am Schools (3)	
	Ethics (3)	
	Natural Science – Science (3)	
C.	Distribution	12 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 – must have same prefix	
	Science (3)	
	Science (3)	
D.	Health and Physical Education	3 sem. hrs.
	Health Lecture and Activity (3)	
	Or	
	Health Lecture (2)	
	And	
	Phy. Ed. Activity (1)	
	<i>*Fulfills Core 5 for Education majors only</i>	
II.	Professional Education	43 sem. hrs.
	SPED210 Intro to Exception & Special Ed (3)	
	MLED306 Literacy and the Young Adolescent (4)	
	MLED350 Characteristics ML Learners (3)	
	MLED360 Dev. Appropriate ML Feat/Prac (3)	
	SPED370 Adapt/Accom Inclusive Clssrm (3)	
	MLED381 Assessment for Learning Young Adoles (3)	
	MLED466 Integrated Lang Arts/Soc St ML (3)	
	MLED467 Integrated Math/Science ML (3)	
	MLED475 Middle Level Field Experience (3)	
	MLED491 ML Classroom Community (3)	
	MLED495 Student Teaching (12)	
III.	Specialization in Math and Social Studies	31 sem. hrs.
B.	Required Courses	27 sem hrs.
	MATH208 Essentials of Calculus (3)	
	MATH270 Discrete Mathematics I (3)	
	MATH275 Linear Algebra I (3)	
	MATH250 Informal Geometry (3)	
	MATH260 Elements of Statistics (3)	
	MATH403 Math for Sec. Sch. Teachers (3)	
	OR	
	MATH404 Comp. and Calc. Sec. Curric. (3)	
	ECON 100 Elements of Economics (3)	
	GEOG200 or above (3)	
	POLI201 American Government (3)	
C.	Supporting Courses	4 sem. hrs.
	Science (Lab) (4)	
		TOTAL 122 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.

**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	General Psychology (3)
HIST101	World Civilizations I (3)
Or	
HIST102	World Civilizations II (3)
HPE	Elective(3)
<i>Freshman Common Hour</i>	

TOTAL 15 sem. hrs.

Second Semester

ENGL102	Writing and Research (3)
MATH208	Essentials of Calculus (3)
SEDU183	Technology for Teaching and Learning (3)
SEDU271	Multiculturalism in American Schools (3)
SCIENCE	Core 7 Natural Science (any) (3)

TOTAL 15 sem. hrs.

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed (3)
MATH270	Discrete Mathematics I (3)
HIST261	History of U.S. I (3)
Or	
HIST262	History of U.S. II (3)
ENGL Literature	300 level or above (3)
SCIENCE	Distribution 3 Science (must have same Prefix as following semester)

TOTAL 15 sem. hrs.

Fourth Semester

MATH275	Linear Algebra I (3)
MATH250	Informal Geometry 3 credits (3)
ECON100	Elements of Economics (3)
CORE 1	Artistic Expression (any) (3)
SCIENCE	Distribution 3 Science (must have the same prefix as course previous semester)

TOTAL 15 sem. hrs.

Fifth Semester

MATH260	Elements of Statistics (3)
SCIENCE	Science lab (any) (4)
POLI201	American Government (3)
MLED350	Characteristics of ML Learners (3)
MLED360	Devel Appropriate Features & Prac (3)

TOTAL 16 sem. hrs.

Sixth Semester

MATH403	Mathematics for Sec. Sch. Teachers (3)
Or	
MATH404	Comp. and Calc. in the Sec. Curric. (3)
GEOG	200 level or above (3)
HIST380	Pennsylvania History (3)
CORE 6	Ethics (any) (3)
MLED306	Literacy and the Young Adolescent (4)

TOTAL 16 sem. hrs.

Seventh Semester

SPED370	Adapt/Accom in Inclusive Classrooms (3)
MLED381	Assess for Learning of Young Adoles (3)
MLED466	Integra LgArts & SocStud ML Learner (3)
MLED467	Integra Math/ Science ML Learner (3)
MLED475	Middle Level Field (3)

TOTAL 15 sem. hrs.

Eighth Semester

MLED491	ML Classroom Community (3)
MLED495	Student Teaching (12)

TOTAL 15 sem. hrs.

BACHELOR OF SCIENCE IN EDUCATION

**Area of Certification – Science and
English/Language Arts & Reading Option 2**

I. General Education Requirements	48 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	College Writing and Research Skills (3)
MATH105	College Algebra (3)
SEDU183	Tech. for Teaching and Learning (3)
B. Core	21 sem. hrs.
Artistic Expression - ENGL118 Intro to Poetry (3)	
World Civilizations - HIST101 or HIST102	
World Civ I or II or GEOG101 World Geography (3)	
American Civilizations- HIST261 or HIST262	
U.S. History I or II or GEOG260 Geography of U.S. and Canada (3)	
Human Behavior - PSYC101 General Psychology (3)	
Cultural Diversity and Social Pluralism -	
SEDU271 Multicult Amer Schools (3)	
Ethics (3)	
Natural Science - GEOS101 Dynamic Earth or GEOS109 Atmos & Space Sci(3)	
C. Distribution	12 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	
MATH208 Essentials of Calculus (3)	
MATH260 Elements of Statistics (3)	
D. Health and Physical Education	3 sem. hrs.
Health Lecture and Activity (3)	
II. Professional Education	43 sem. hrs.
SPED210 Intro to Exception & Special Ed (3)	
MLED306 Literacy and the Young Adolescent (4)	
MLED350 Characteristics ML Learners (3)	
MLED360 Dev. Appropriate ML Feat/Prac (3)	
SPED370 Adapt/Accom Inclusive Clssrm (3)	
MLED381 Assess 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	31 sem. hrs.
A. Required Courses	28 sem hrs.
ENGL205 Multi-ethnic Amer Lit (3)	
ENGL211 Traditional Grammar (3)	
ENGL545 Adolescent Lit (3)	
BIOL103 Principles of Biology (4)	
BIOL230 Botany (4)	
CHEM140 General Chemistry I (4)	
GEOS300 level or above (3)	
PHYS201 Physics I (4)	
B. Supporting Courses	3 sem hrs.
MATH250 Informal Geometry (3)	
TOTAL	122 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.

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL
SCIENCE & ENGL/LANG ARTS & READING
(Suggested Eight-Semester Sequence)**

ENGL101	College Writing Skills (3)
PSYC101	General Psychology (3)
MATH105	College Algebra (3)
ENGL118	Intro to Poetry (3)
HPE Elective (3)	
<i>Freshman Common Hour</i>	

TOTAL 15 sem. hrs.

Second Semester

ENGL102	Writing and Research (3)		
SEDU183	Technology for Teaching and Learning (3)		
SEDU271	Multiculturalism in American Schools (3)		
BIOL103	Principles of Biology (4)		
GEOS101	Dynamic Earth (3)		
	OR		
GEOS109	Atmosphere & Space Science (3)		
	TOTAL	16 sem. hrs.	

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed (3)		
MATH208	Essentials of Calculus (3)		
BIOL230	Botany(4)		
	Or		
BIOL240	Zoology(4)		
HIST101	World Civilizations I (3)		
	Or		
HIST102	World Civilizations II(3)		
	Or		
GEOG101	World Geography(3)		
ENGL201	American Lit Survey I(3)		
	Or		
ENGL202	American Lit Survey II(3)		
	TOTAL	16 sem. hrs.	

Fourth Semester

MATH250	Informal Geometry (3)		
CHEM140	General Chem I (4)		
ENGL205	Multi-ethnic Literature (3)		
GEOS	300 level or above (3)		
HIST 261	History of U. S. I (3)		
	Or		
HIST262	History of U.S. II (3)		
	Or		
GEOG260	Geog of U.S. and Canada (3)		
	TOTAL	16 sem. hrs.	

Fifth Semester

Core 6	Ethics (any) (3)		
ENGL211	Traditional Grammar (3)		
PHYS201	Physics I (4)		
MLED350	Characteristics of ML Learners (3)		
MLED360	Devel Appropriate Features & Prac (3)		
	TOTAL	16 sem. hrs.	

Sixth Semester

HIST380	Pennsylvania History (3)		
MATH260	Elements of Statistics (3)		
ENGL545	Adolescent Literature (3)		
MLED306	Literacy and the Young Adolescen (4)		
	TOTAL	13 sem. hrs.	

Seventh Semester

SPED370	Adapt/Accom in Inclusive Class (3)		
MLED381	Assess for Learning of Young Adoles(3)		
MLED466	Integra LgArts & SocStud ML Learner (3)		
MLED467	Integra Math/ Science ML Learner (3)		
MLED475	Middle Level Field (3)		
	TOTAL	15 sem. hrs.	

Eighth Semester

MLED491	ML Classroom Community	3 credits	
MLED495	Student Teaching	12 credits	
	TOTAL	15 sem. hrs.	

BACHELOR OF SCIENCE IN EDUCATION**Area of Certification – Middle Level Science & Social Studies: Option 2**

I. General Education Requirements	48 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101 College Writing Skills (3)	

ENGL102	Specialized College Writing and Research Skills (3)		
MATH105	College Algebra (3)		
SEDU183	Tech. for Teaching and Learning (3)		
B. Core		21 sem. hrs.	
	Artistic Expression (3)		
	World Civilizations – HIST101 or HIST102 (3)		
	American Civilizations – HIST261or HIST262 (3)		
	Human Behavior – PSYC101 (3)		
	Cultural Diversity and Social Pluralism – SEDU271 (3)		
	Ethics (3)		
	Natural Science – GEOS101 or GEOS109 (3)		
C. Distribution		12 sem. hrs.	
	Humanities and Fine Arts – English Lit 300 level or above (3)		
	Social and Behavioral Sciences – HIST380 (3)		
	Natural Sciences and Mathematics – MATH208 & MATH260 (6)		
D. Health and Physical Education		3 sem. hrs.	
	Health Lecture and Activity (3)		
II. Professional Education		43 sem. hrs.	
	SPED210 Intro to Exception & Special Ed (3)		
	MLED306 Literacy and the Young Adolescent (4)		
	MLED350 Characteristics ML Learners (3)		
	MLED360 Dev. Appropriate ML Feat/Prac (3)		
	SPED370 Adapt/Accom Inclusive Clssrm (3)		
	MLED381 Assessment for Learning Young Adoles (3)		
	MLED466 Integrated Lang Arts/Soc St ML (3)		
	MLED467 Integrated Math/Science ML (3)		
	MLED475 Middle Level Field Experience (3)		
	MLED491 ML Classroom Community (3)		
	MLED495 Student Teaching (12)		
III. Specialization in Science and Social Studies		31 sem. hrs.	
A. Required Courses		28 sem. hrs.	
	BIOL103 Principles of Biology (4)		
	BIOL230 Botany		
	or		
	BIOL240 Zoology (4)		
	CHEM140 General Chemistry (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		3 sem. hrs.	
	MATH250 Informal Geometry (3)		
	TOTAL	122 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.

**BACHELOR OF SCIENCE IN EDUCATION - MIDDLE LEVEL
SCIENCE & SOCIAL STUDIES: OPTION 2
(Suggested Eight-Semester Sequence)**

ENG101	College Writing Skills (3)		
PSYC101	General Psychology (3)		
MATH105	College Algebra (3)		
HIST101	World Civilizations I (3)		
	Or		
HIST102	World Civilizations II		
	HPE Elective (3)		
	Common Hour		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Writing and Research (3)		
SEDU183	Technology for Teaching and Learning (3)		
BIOL103	Principles of Biology (4)		
SEDU271	Multiculturalism in American Schools (3)		
GEOS101	Dynamic Earth (3)		
	Or		
GEOS109	Atmospheric and Space Sciences		
	TOTAL	16 sem. hrs.	

Third Semester

SPED210	Intro to Exceptionalities/Spec Ed (3)		
BIOL230	Botany (4)		
	Or		
BIOL240	Zoology		
MATH208	Essentials of Calculus (3)		
HIST261	History of U. S. I (3)		
	OR		
HIST262	History of U. S. II		
Core 1	Artistic Expression (any) (3)		
		TOTAL	16 sem. hrs.

Fourth Semester

MATH250	Informal Geometry (3)		
CHEM140	General Chemistry I (4)		
ECON100	Elements of Economics (3)		
GEOG	200 level or above (3)		
GEOS	300 level or above (3)		
		TOTAL	16 sem. hrs.

Fifth Semester

PHYS201	Physics I (4)		
POL1201	American Government (3)		
MLED350	Characteristics of ML Learners (3)		
MLED360	Devel Appropriate Features & Prac (3)		
ETHICS	Core 6 (any) (3)		
		TOTAL	16 sem. hrs.

Sixth Semester

HIST380	Pennsylvania History (3)		
MATH260	Elements of Statistics (3)		
MLED306	Literacy and the Young Adolescent (4)		
ENGL Literature	Distribution 1 300 level or above (3)		
		TOTAL	13 sem. hrs.

Seventh Semester

SPED370	Adapt/Accom in Inclusive Classrms (3)		
MLED381	Assess for Learning of Young Adoles (3)		
MLED466	Integra LgArts & SocStud ML Learner (3)		
MLED467	Integra Math/ Science ML Learner (3)		
MLED475	Middle Level Field (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

MLED491	ML Classroom Community		3 credits
MLED495	Student Teaching		12 credits
		TOTAL	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
- Foreign Languages
 - German
 - Spanish
- General Science
- Mathematics
- Physics
- Social Studies

Bachelor of Science in Education Degree**Area of Certification – Secondary Biology**

I. General Education Requirements			52 sem. hrs.
A. Skills			13 sem. hrs.
ENGL101	College Writing Skills (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH107	Pre-Calculus (4)		
SEDU183	Tech. for Teaching and Learning (3)		
B. Core			22 sem. hrs.

	Artistic Expression (3)		
	World Civilizations (3)		
	American Civilizations (3)		
	Human Behavior - PSYC101 (3)		
	Cultural Diversity and Social Pluralism-SEDU271 Multi-cult in Amer Schools (3)		
	Ethics GEOG145 Environmental Issues (3)		
	Natural Science - CHEM240 Principles of Chemistry I (4)		
C. Distribution			14 sem. hrs.
	Humanities and Fine Arts - English Literature 300 level or above (3)		
	Social and Behavioral Sciences (3)		
	Natural Sciences and Mathematics		
	CHEM241 Principles of Chem II (4)		
	CHEM301 Gen Organic Chem (4)		
D. Health and Physical Education			3 sem. hrs.
	Health and Activity (3)		
II. Professional Education			33 sem. hrs.
SEDU306	Content Literacy in the Middle and Secondary Schools (3)		
SEDU472	Instructional Techniques for Secondary Science (3)		
SEDU475	Secondary Field Experience (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
SEDU491	Classroom Management in 7-12 Classrooms (3)		
SEDU495	Student Teaching (12)		
SPED210	Intro to Excep in Spec Ed (3)		
SPED370	Adapt & Accom Includ Clsrms (3)		
III. Specialization in Biology			27 sem. hrs.
BIOL103	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			15 sem. hrs.
PHYS201	Physics I (4)		
PHYS202	Physics II (4)		
MATH260	Elements of Statistics (3)		
MATH211	Analyt Geom & Calc I (4)		
		TOTAL	127 sem. hrs.

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – SECONDARY BIOLOGY**(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)		
BIOL103	Principles of Biology (4)		
MATH107	Pre-Calculus (4)		
CHEM240	Principles of Chem I (4)		
		TOTAL	15 sem. hrs.

Second Semester

MATH260	Elements of Statistics (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
PHYS201	Physics I (4)		
PSYC101	General Psychology (3)		
	Dist – English Literature 300 level or above (3)		
		TOTAL	16 sem. hrs.

Third Semester

PHYS202	Physics II (4)		
SEDU271	Multi-cult in Amer Schools (3)		
	Core (3)		
	HPE Elective (3)		
CHEM241	Principles of CHEM II (4)		
		TOTAL	17 sem. hrs.

Fourth Semester

BIOL240	Zoology (4)		
BIOL230	Botany (4)		
SEDU183	Tech. for Teaching and Learning (3)		
GEOG145	Environmental Issues (3) Distribution 2 (3)		
		TOTAL	17 sem. hrs.

Fifth Semester

BIOL300	Genetics (4)		
CHEM301	General Organic Chemistry (4)		
SPED210	Intro to Except/Spec Ed (3)		
MATH211	Analyt Geom & Calc I (4)		
		TOTAL	15 sem. hrs.

Sixth Semester

BIOL320	Plant Physiology (4)		
Or			
BIOL340	Animal Physiology (4) Core (3) Core (3)		
BIOL400	Ecology (4)		
SPED370	Adapt & Accom Inclu Clsrm (3)		
		TOTAL	17 sem. hrs.

Seventh Semester

SEDU306	Content Literacy in Mid/Sec Schools (3)		
SEDU472	Instructional Techniques for Secondary Science (3)		
SEDU475	Sec. Ed. Field Experience (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
BIOL Elective 300 level or above (3)			
		TOTAL	15 sem. hrs.

Eighth Semester

SEDU491	Classroom Management in 7-12 Classrooms (3)		
SEDU495	Student Teaching (12)		
		TOTAL	15 sem. hrs.

Bachelor of Science in Education Degree**Area of Certification – Secondary Chemistry**

I. General Education Requirements		52 sem. hrs.
A. Skills		13 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH107	Pre-Calculus (4)	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		22 sem. hrs.
Artistic Expression (3)		
World Civilizations (3)		
American Civilizations (3)		
Human Behavior - PSYC101 - General Psychology (3)		
Cultural Diversity and Social Pluralism - SEDU271 Multi-cult Amer. Schools (3)		
Ethics (3)		
Natural Science - CHEM240 (4)		
C. Distribution		14 sem. hrs.
Humanities and Fine Arts (3)		
Social and Behavioral Sciences (3)		
Natural Sciences and Mathematics		
MATH211 Analytic Geom & Calc I (4)MATH212 Analytic Geom & Calc II (4)		
D. Health and Physical Education		3 sem. hrs.
Health and Activity (3)		
II. Professional Education		33 sem. hrs.
SEDU306	Content Literacy in the Middle and Secondary Schools (3)	
SEDU472	Instructional Techniques for Secondary Science (3)	
SEDU475	Secondary Field Experience (3)	
SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SPED210	Intro to Except/Spec Ed	
SPED370	Adapt & Accom Inclu Clsrm	
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.	
MATH260	Elements of Statistics (3)		
PHYS201	Physics I (4)*		
PHYS202	Physics II (4)*		
GEOS101	Dynamic Earth (3)		
		TOTAL	128 sem. hrs.

* Counts as General Education.

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – SECONDARY CHEMISTRY (Suggested Eight-Semester Sequence)**First Semester**

CHEM240	Principles of Chemistry I (4)		
ENGL101	College Writing Skills (3)		
MATH107	Pre-Calculus (4) Core (3)		
		TOTAL	14 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
MATH211	Anal. Geom. and Calc. I(4)		
PHYS201	Physics I (4)		
PSYC101	General Psychology (3)		
Distribution 1 Literature (3)			
		TOTAL	17 sem. hrs.

Third Semester

CHEM241	Principles of Chemistry II (4)		
MATH212	Anal Geom and Calc II (4)		
PHYS202	Physics II (4)		
SEDU271	Multi-cult Amer Schools (3)		
GEOS101	Dynamic Earth (3)		
		TOTAL	18 sem. hrs.

Fourth Semester

CHEM330	Organic Chemistry I (4)		
SEDU183	Tech. for Teaching and Learning (3)		
SPED210	Intro to Except/Spec Ed (3) Core (3) HPE Elective (3)		
		TOTAL	16 sem. hrs.

Fifth Semester

CHEM331	Organic Chemistry II (4)		
CHEM310	Quantitative Analysis (4)		
CHEM280	Laboratory Safety I (1) Core (3) Distribution (3)		
		TOTAL	15 sem. hrs.

Sixth Semester

CHEM341	Biochemistry (4)		
CHEM530	Physical Chemistry I (4)		
MATH260	Elements of Statistics (3)		
SPED370	Adapt & Accom Inclu Clsrm (3) Core (3)		
		TOTAL	17 sem. hrs.

Seventh Semester

CHEM531	Physical Chemistry II(4)		
SEDU306	Content Literacy (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
SEDU491	Pro. Perform Mid./Sec. (3)Classroom Management in 7-12 Classrooms (3)		
SEDU472	Instructional Techniques (3)		
SEDU475	Sec. Ed. Field Experience (3)		
	TOTAL	19 sem. hrs.	

Eighth Semester

SEDU495	Student Teaching (12)		
	TOTAL	12 sem. hrs.	

Bachelor of Science in Education Degree**Area of Certification – Secondary Comprehensive English**

I.	General Education Requirements	48 sem. hrs.	
A.	Skills	12 sem. hrs.	
	ENGL101 College Writing Skills (3)		
	ENGL102 Specialized College Writing and Research Skills (3)		
	MATH104 Finite Math or higher math (3)		
	SEDU183 Technology for Teaching and Learning (3)		
B.	Core	21 sem. hrs.	
	Artistic Expression – THEA218 Intro to Theater (3)		
	World Civilizations (3)		
	American Civilizations (3)		
	Human Behavior – PSYC101 General Psychology (3)		
	Cultural Diversity and Social Pluralism SEDU271 Multi-Culturalism/Amer Schools-(3)		
	Ethics (3)		
	Natural Science (3)		
C.	Distribution	12 sem. hrs.	
	Humanities and Fine Arts (6)		
	ENGL201 American Lit Survey I		
	ENGL202 American Lit Survey II		
	Social and Behavioral Sciences (3)		
	Natural Sciences and Mathematics (3) – MATH100 level or higher		
D.	Health and Physical Education	3 sem. hrs.	
	Health Lecture and Activity (3)		
II.	Professional Education	33 sem. hrs.	
	SEDU306 Content Literacy in the Middle and Secondary Schools (3)		
	SEDU465 Instructional Techniques for English (3)		
	SEDU475 Secondary Field Experience (3)		
	SEDU381 Assessment for Middle and Secondary Classrooms (3)		
	SPED210 Intro to Except and Spec Ed (3)		
	SPED370 Adapt & Accom Incl Clsrn		
	SEDU491 Classroom Mgmt. in 7-12 Classrooms (3)		
	SEDU495 Student Teaching (12)		
III.	Specialization in English	42 sem. hrs.	
	COMM107 Fundamentals of Speech (3)		
	ENGL205 Multi-ethnic American Lit (3)		
	ENGL209 Foundations of Lit. Study (3)		
	ENGL211 Traditional Grammar (3)		
	ENGL489 Lit. Criticism: Theory (3)		
	ENGL499 Thesis Seminar in Lit. (3)		
	ENGL521 Hist: English Lang. (3)		
	ENGL525 Composition Theory (3)		
	ENGL545 Adolescent Literature (3)		
	Ancient/Classical/Renaissance	6 sem. hrs.	
	ENGL260 Lit. of Ancient/Classical World		
	Or		
	ENGL261 Medieval and Renaissance Lit (3)		
	ENGL315 Shakespeare I		
	Or		
	ENGL319 Shakespeare II (3)		
	British Literature	6 sem. hrs.	
	ENGL241 British Literature Survey I (3)		
	ENGL242 British Literature Survey II (3)		
	Topic/Author Course	3 sem. hrs.	
	ENGL332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 411, 412, 413, 414, 415, 416 (3)		

IV. Free Electives	2 sem. hrs.
TOTAL	123 sem. hrs.

* Counts as General Education.

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – COMPREHENSIVE ENGLISH (Suggested Eight-Semester Sequence)**First Semester**

COMM107	Fundamentals of Speech (3)		
ENGL101	College Writing Skills (3)		
MATH104	Finite Math or higher math (3)		
THEA218	Intro to Theatre (3)		
	HPE Elective		
	Health Lecture and Activity(3)		
	TOTAL	15 sem. hrs.	

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
ENGL201	American Literature Survey (3)		
PSYC101	General Psychology (3)		
	Core 3 American Civilizations (3)		
	Dist 3 MATH- 100 level or higher (3)		
	TOTAL	15 sem. hrs.	

Third Semester

ENGL202	American Literature Survey II (3)		
ENGL209	Foundations of Literature Study (3)		
ENGL211	Traditional Grammar (3)		
SEDU271	Multi-culture in Amer Schools (3)		
	Core 2 World Civilizations (3)		
	TOTAL	15 sem. hrs.	

Fourth Semester

ENGL241	British Literature Survey I (3)		
ENGL205	Multi-Ethnic American Lit. (3)		
SEDU183	Tech. for Teaching and Learning(3)		
	Topic/Author Selection Elective (3)		
	Distribution 2 Social and Behavioral Sciences (3)		
	TOTAL	15 sem. hrs.	

Fifth Semester

ENGL242	British Literature Survey II (3)		
ENGL260	Literature: Classical World		
Or			
ENGL261	Medieval and Renaissance Literature (3)		
ENGL489	Literature Criticism: Theory (3)		
SPED210	Intro to Except/ Spec Ed (3)		
	Core 6 Ethics (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

ENGL315	Shakespeare I		
Or			
ENGL319	Shakespeare II (3)		
ENGL521	History of English Language (3)		
ENGL525	Composition Theory (3)		
ENGL545	Adolescent Literature (3)		
	Core 7 Natural Science (3)		
	TOTAL	15 sem. hrs.	

Seventh Semester

ENGL499	Thesis Seminar in Literature (3)		
SEDU306	Content Literacy (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
SEDU491	Classroom Mgmt. in 7-12 Classrooms (3)		
SEDU465	Instructional Techniques (3)		
SEDU475	Secondary Education Field Experience (3)		
	TOTAL	18 sem. hrs.	

Eighth Semester

SPED370 Adapt & Accom Includ Clsrm (3)
 SEDU495 Student Teaching (12)

TOTAL 15 sem. hrs.

Bachelor of Science in Education Degree**Area of Certification – Secondary Earth and Space Science**

I. General Education Requirements	49 sem. hrs.
A. Skills	13 sem. hrs.
ENGL101 College Writing Skills (3)	
ENGL102 Specialized College Writing and Research Skills (3)	
MATH107 Precalculus (4)*	
SEDU183 Tech. for Teaching and Learning (3)	
B. Core	21 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior – PSYC101 (3)	
Cultural Diversity and Social Pluralism – SEDU271 Multi-cult Amer Schools (3)	
Ethics (3)	
Natural Science – BIOL100 Intro to Biology (3)	
C. Distribution	12 sem. hrs.
Humanities and Fine Arts – English Literature 300 level or above (3) above (3)	
Natural Sciences and Mathematics	
GEOS310 Intro to Oceanography (3)	
GEOS375 Environmental Geology (3)	
D. Health and Physical Education	3 sem. hrs.
Health and Activity (3)	
II. Professional Education	33 sem. hrs.
SEDU306 Content Literacy in the Middle/Secondary Schools (3)	
SEDU472 Instructional Techniques for Secondary Science (3)	
SEDU475 Secondary Field Experience (3)	
SEDU381 Assessment for Middle and Secondary Classrooms (3)	
SPED210 Intro to Except/Spec Ed	
SPED370 Adapt & Accom Includ Clsrm	
SEDU491 Classroom Management in 7-12 Classrooms (3)	
SEDU495 Student Teaching (12)	
III. Specialization in Earth and Space Science	26 sem. hrs.
GEOS101 Dynamic Earth (3)	
GEOS112 Principles of Earth History (3)	
GEOS320 Meteorology I (3)	
PHYS271 Frontiers of Astronomy (3)	
Field Course (3)	
GEOS Electives (choose 11 credits) – GEOS311, 505, 510, 521, 523, 531, 541, 545	
IV. Required Supporting Courses	15-16 sem. hrs.
CHEM240 Principles of Chemistry I (4)	
PHYS201 Physics I (4)*	
PHYS202 Physics II (4)*	
Or	
CHEM241 Principles of Chemistry II (4)	
MATH211 Analy Geometry & Calc I (4)	
Or	
MATH260 Elements of Statistics (3)	
TOTAL	123-124 sem. hrs.

* Counts as General Education.

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY
 EARTH/SPACE SCIENCE
 (Suggested Eight-Semester Sequence)**

First Semester

BIOL100 Intro to Biology (3)
 ENGL101 College Writing Skills (3)
 GEOS101 Dynamic Earth (3)
 MATH107 Precalculus (4)
 Core (3)

TOTAL 16 sem. hrs.

Second Semester

ENGL102 Specialized College Writing and Research Skills (3)
 GEOS310 Introduction to Oceanography (3)
 PHYS201 Physics I (4)
 PSYC101 General Psychology (3)
 Core (3)

TOTAL 16 sem. hrs.

Third Semester

CHEM240 Principles of Chemistry I (4)
 SEDU271 Multi-Cult Amer Schools (3)
 Distribution 1 Literature- 300 level or above (3)
 HPE Elective (3)
 Core (3)

TOTAL 16 sem. hrs.

Fourth Semester

CHEM241 Principles of Chemistry II (4)
 Or
 PHYS202 Physics II (4)
 GEOS112 Principles of Earth History (3)
 SEDU183 Tech. for Teaching and Learning (3)
 Core (3)
 Distribution 2 Social & Behavioral Sciences-300 level or above (3)

TOTAL 16 sem. hrs.

Fifth Semester

GEOS320 Meteorology I (3)
 PHYS271 Frontiers of Astronomy (3)
 MATH211 Analy Geom & Calc I (4) Or
 MATH260 Elements of Statistics (3)
 GEOS375 Environmental Geology (3)
 GEOS Elective GEOS 311, 505, 507, 510, 521, 523, 531, 541 or 545 (3-4)

TOTAL 15-17 sem. hrs.

Sixth Semester

SPED210 Intro to Except/Spec Ed (3)
 GEOS Elective GEOS 311, 505, 507, 510, 521, 523, 531, 541 or 545 (3-4)
 GEOS Elective GEOS 311, 505, 507, 510, 521, 523, 531, 541 or 545 (3-4)
 Field Course (3)

TOTAL 12-14 sem. hrs.

Seventh Semester

SEDU475 Secondary Education Field Experience (3)
 SEDU472 Instructional Techniques for Secondary Science (3)
 SEDU306 Content Literacy (3)
 SEDU381 Assessment for Middle and Secondary Classrooms (3)
 SPED370 Adapt & Accom Includ Clsrm (3)

TOTAL 15 sem. hrs.

Eighth Semester

SEDU491 Classroom Management in 7-12 Classrooms (3)
 SEDU495 Student Teaching (12)

TOTAL 12-15 sem. hrs.

Bachelor of Science in Education Degree

Area of Certification – Foreign Language German

The Foreign Language program is for the education and certification of students to teach German or Spanish in the Commonwealth of Pennsylvania and the nation. Content material is in a single foreign language including a minimum of 30 credits above the 100 level in a particular language plus methods in teaching foreign languages. The language courses should be enriched by additional courses in English and Speech and in the history and civilization of the countries using the language.

German

I. General Education Requirements	48 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101 College Writing Skills (3)	
ENGL102 Specialized College Writing and Research Skills (3)	
MATH110 Mathematical Reasoning I (3)	
SEDU183 Tech. for Teaching and Learning (3)	
B. Core	21 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior – PSYC101 – General Psychology (3)	
Cultural Diversity and Social Pluralism – SEDU271 Multi-cult Am Schools (3)	
Ethics (3)	
Natural Science (3)	
C. Distribution	12 sem. hrs.
Humanities and Fine Arts (3 or 6) (3 credits must be literature)	
Social and Behavioral Sciences (3 or 6)	
Natural Sciences and Mathematics (3 or 6) (3 credits must be MATH210)	
D. Health and Physical Education	3 sem. hrs.
Health and Activity (3)	
II. Professional Education	33 sem. hrs.
SEDU306 Content Literacy in the Middle and Secondary Schools (3)	
SEDU474 Instructional Techniques for Modern Foreign Languages (3)	
SEDU475 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 Management in 7-12 Classrooms (3)	
SEDU495 Student Teaching (12)	
III. Specialization in German	30 sem. hrs.
Required Courses	(24 sem. hrs.)
GERM101 First Course German (3)*	
GERM102 Second Course German (3)*	
GERM201 Third Course German (3)	
GERM202 Fourth Course German (3)	
GERM307 German Conversation and Composition (3)	
GERM310 Adv. Translation (3)	
GERM331 Hist. of Ger. Culture (3)	
GERM351 Survey of Ger. Lit. I (3)	
GERM352 Survey of Ger. Lit. II (3)	
GERM407 Adv. Ger. Conv./Comp. (3)	
Electives (Two upper level German offerings) (6)	
IV. Free Electives	9 sem. hrs.
TOTAL	120 sem. hrs.

* German courses at the 100 level cannot be counted toward the major.

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

*** Counts as general education

(Petition for substitution or exemption from any of the above must be done through the chair of the Department of Foreign Languages.)

BACHELOR OF SCIENCE IN EDUCATION – GERMAN (Suggested Eight-Semester Sequence)

First Semester			
ENGL101	College Writing Skills (3)		
PSYC101	General Psychology (3)		
MATH104	Finite Math or higher math (3)		
GERM201	Third Course German (3)		
	HPE Elective (3)		
	TOTAL		15 sem. hrs.
Second Semester			
ENGL102	Specialized College Writing and Research Skills (3)		
SEDU183	Tech for Teaching and Learning (3)		
GERM202	Fourth Course German (3)		
SPED210	Intro to Except and Sp Ed (3)		
	Distribution (3) (MATH 100 level or higher)		
	TOTAL		15 sem. hrs.
Third Semester			
GERM307	German Conv./Comp. I (3)		
SEDU271	Multi-cult Amer schools (3)		
	Core (3)		
	Distribution 1 English Literature (3)		
	Free Elective (3)		
	TOTAL		15 sem. hrs.
Fourth Semester			
GERM331	History of German Culture (3)		
GERM310	Advanced Translation (3)		
	Core (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	TOTAL		18 sem. hrs.
Fifth Semester			
GERM351	Survey of German Lit. I (3)		
	German Elective (3)		
	Core (3)		
	Distribution (3)		
	Free Elective (3)		
	TOTAL		15 sem. hrs.
Sixth Semester			
GERM352	Survey of German Lit. II (3)		
GERM407	Adv. German Conv./Comp. (3)		
SPED370	Adapt & Accom Inclu Clsrm (3)		
	Free Elective (3)		
	German Elective (3)		
	TOTAL		15 sem. hrs.
Seventh Semester			
SEDU306	Content Lit. in M/S and S.S. (3)		
SEDU491	Classroom Management in 7-12 Classrooms (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
SEDU474	Instructional Techniques for Modern Foreign Languages (3)		
SEDU475	Sec. Ed Field Exp. (3)		
	TOTAL		15 sem. hrs.
Eighth Semester			
SEDU495	Student Teaching (12)		
	TOTAL		12 sem. hrs.

Bachelor of Science in Education Degree

Area of Certification – Foreign Language

Spanish

I. General Education Requirements	48 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101 College Writing Skills (3)	
ENGL102 Specialized College Writing and Research Skills (3)	
MATH104 Finite Math or higher level (3)	
SEDU183 Tech. for Teaching and Learning (3)*	
B. Core	21 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior - PSYC101 (3)	
Cultural Diversity and Social Pluralism- SEDU271 Multi-cult Amer Schools (3)	
Ethics (3)	
Natural Science (3)	
C. Distribution	12 sem. hrs.
Humanities and Fine Arts (3 or 6)	
Social and Behavioral Sciences (3 or 6)	
Natural Sciences and Mathematics (3 or 6) (MATH100 or higher level)	
D. Health and Physical Education	3 sem. hrs.
Health and Activity (3)	
II. Professional Education	33 sem. hrs.
SEDU306 Content Literacy in the Middle and Secondary Schools (3)	
SEDU474 Instructional Techniques for Modern Foreign Languages (3)	
SEDU475 Secondary Field Experience (3)	
SEDU381 Assessment for Middle and Secondary Classrooms (3)	
SPED210 Intro to Except and Spec Ed (3)	
SPED370 Adapt & Accom Incl Clsrm (3)	
SEDU491 Classroom Management for 7-12 Classrooms (3)	
SEDU495 Student Teaching (12)	
III. Specialization in Spanish	33 sem. hrs.
Required Courses	(24 sem. hrs.)
SPAN101 First Course Spanish (3)**	
SPAN102 Second Course Spanish (3)**	
SPAN201 Third Course Spanish (3)	
SPAN202 Fourth Course Spanish (3)	
SPAN307 Spanish Conversation and Composition I (3)	
SPAN308 Spanish Conversation and Composition II (3)	
SPAN331 Sp. Civilization (3)	
SPAN335 Sp.-Am. Culture (3)	
SPAN355 Survey of Sp./Am. Lit. I (3)	
SPAN356 Survey of Sp./Am. Lit. II (3)	
Electives (Three 300 level or above Spanish offerings)	(9)
IV. Free Electives	6 sem. hrs.
TOTAL	120 sem. hrs.

* Counts as general education

** Spanish courses at the 100 level cannot be counted toward the major. (Petition for substitution or exemption from any of the previous must be done through the chair of the Department of Foreign Languages.)

*** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – SPANISH (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)	
PSYC101	General Psychology (3)	
MATH104	Finite Math or higher level math (3)	
SPAN201	Third Course Spanish (3)	
	Core (3)	
TOTAL		15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
SEDU183	Tech. for Teaching and Learning (3)	
SPAN202	Fourth Course Spanish (3)	
	HPE Elective (3)	
	Distribution (MATH at the 100 level or above)	
TOTAL		15 sem. hrs.

Third Semester

SEDU271	Multi-cult Amer Schools (3)	
SPAN307	Spanish Conv./Comp. I (3)	
	Core (3)	
	Distribution (3) (Literature)	
	Free Elective (3)	
TOTAL		15 sem. hrs.

Fourth Semester

SPAN308	Spanish Conv./Comp. II (3)	
	Spanish Elective 300 level or above (3)	
	Free Elective (3)	
	Core (3)	
	Distribution (3)	
SPED210	Intro Excep Sp Ed (3)	
TOTAL		18 sem. hrs.

Fifth Semester

SPAN331	Spanish Civilization (3)	
SPAN355	Survey of Spanish/Am. Lit. I (3)	
	Spanish Elective 300 level or above (3)	
	Core (3)	
	Core (3)	
TOTAL		15 sem. hrs.

Sixth Semester

SPAN335	Spanish American Culture (3)	
SPAN356	Survey of Spanish/Am. Lit. II (3)	
SPED370	Adapt & Accom Incl Clsrm (3)	
	Distribution (3)	
	Spanish Elective 300 level or above (3)	
TOTAL		15 sem. hrs.

Seventh Semester

SEDU306	Reading in the Subject Area (3)	
SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SEDU474	Techniques for Modern Foreign Language (3)	
	Education Field Experience (3)	
TOTAL		15 sem. hrs.

Eighth Semester

SEDU495	Student Teaching (12)	
TOTAL		12 sem. hrs.

Bachelor of Science in Education Degree

Area of Certification – Secondary General Science

I. General Education Requirements	51 sem. hrs.
A. Skills	13 sem. hrs.
ENGL101 College Writing Skills (3)	
ENGL102 Specialized College Writing and Research Skills (3)	
MATH107 Precalculus (4)*	
SEDU183 Tech. for Teaching and Learning (3)	
B. Core	22 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior – PSYC101 (3)	
Cultural Diversity and Social Pluralism – SEDU271 Multi-cult Amer Schools (3)	
Ethics (3)	
Natural Science – BIOL103 Principles of Biology (4)	
C. Distribution	13 sem. hrs.
Humanities and Fine Arts – English Literature 300 level or above (3)	

	Social and Behavioral Sciences – 300 level or above (3)		
	Natural Sciences and Mathematics		
	BIOL304 Biology of Aging (3)		
	BIOL230 Botany		
	Or		
	BIOL240 Zoology (4)		
A.	Health and Physical Education	3 sem. hrs.	
	Health and Activity (3)		
II.	Professional Education	33 sem. hrs.	
	SEDU306 Content Literacy in the Middle and Secondary Schools (3)		
	SEDU472 Instructional Techniques for Secondary Science (3)		
	SEDU475 Secondary Field Experience (3)		
	SEDU381 Assessment for Middle and Secondary Classrooms (3)		
	SEDU491 Classroom Management in 7-12 Classrooms (3)		
	SEDU495 Student Teaching (12)		
	SPED210 Intro to Except and Spec Ed (3)		
	SPED370 Adapt & Accom Includ Clsrm (3)		
III.	Specialization in General Science	42-43 sem. hrs.	
	GEOS101 The Dynamic Earth (3)		
	GEOS112 Principles of Earth History (3)		
	GEOS302 Our Hazardous Planet (3)		
	GEOS320 Meteorology I (3)		
	MATH211 Analytic Geometry and Calculus I (4)		
	Or		
	MATH260 Elements of Statistics (3)		
	BIOL300 Genetics (4)		
	CHEM140 General Chemistry I (4)		
	CHEM301 Gen Organic Chem (4)		
	CHEM302 Gen Bio Chem (4)		
	PHYS201 Physics I (4)		
	PHYS202 Physics II (4)		
	PHYS271 Frontiers in Astronomy (3)		
	TOTAL	126-127 sem. hrs.	

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – SECONDARY GENERAL SCIENCE (Suggested Eight-Semester Sequence)

First Semester			
	ENGL101 College Writing Skills (3)		
	BIOL103 Principles of Biology (4)		
	MATH107 Precalculus (4)		
	GEOS101 Dynamic Earth (3)		
	Core (3)		
	TOTAL	17 sem. hrs.	
Second Semester			
	BIOL230 Botany		
	Or		
	BIOL240 Zoology (4)		
	ENGL102 Specialized College Writing and Research Skills (3)		
	PHYS201 Physics I (4)		
	PSYC101 General Psychology (3)		
	Core (3)		
	TOTAL	17 sem. hrs.	
Third Semester			
	PHYS202 Physics II (4)		
	SEDU271 Multi-cult Amer Schools (3)		
	PHYS271 Frontiers in Astronomy (3)		
	HPE Elective (3)		
	Core (3)		
	TOTAL	16 sem. hrs.	

Fourth Semester			
	GEOS112 Principles of Earth History (3)		
	CHEM140 General Chemistry I (4)		
	SEDU183 Tech. for Teaching and Learning (3)		
	Core (3)		
	Distribution (3) (English Literature 300 level or above)		
	TOTAL	16 sem. hrs.	
Fifth Semester			
	GEOS320 Meteorology I (3)		
	BIOL304 Biology of Aging (3)		
	MATH211 Analytical Geom. and Calculus I (4)		
	Or		
	MATH260 Elements of Statistics (3)		
	CHEM301 General Organic Chem (4)		
	SPED210 Intro to Except and Spec Ed (3)		
	TOTAL	16-17 sem. hrs.	
Sixth Semester			
	CHEM302 Gen Bio-organic Chemistry (4)		
	GEOS302 Our Hazardous Planet (3)		
	Distribution 2 300 level or above (3)		
	BIOL300 Genetics (4)		
	TOTAL	14 sem. hrs.	
Seventh Semester			
	SEDU475 Secondary Field Experience (3)		
	SEDU472 Instructional Techniques for Secondary Science (3)		
	SEDU306 Content Literacy (3)		
	SEDU381 Assessment for Middle and Secondary Classrooms (3)		
	SPED370 Adapt & Accom Includ Clsrm (3)		
	TOTAL	15 sem. hrs.	
Eighth Semester			
	SEDU491 Classroom Management in 7-12 Classrooms (3)		
	SEDU495 Student Teaching (12)		
	TOTAL	15 sem. hrs.	

Bachelor of Science in Education Degree

Area of Certification – Secondary Mathematics

I.	General Education Requirements	51 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101 College Writing Skills (3)	
	ENGL102 Specialized College Writing and Research Skills (3)	
	MATH107 Pre-Calculus (4)	
	SEDU183 Tech for Teaching and Learning (3)	
B.	Core	21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior	
	PSYC101 (3)	
	Cultural Diversity and Social Pluralism - SEDU271 Multi-cult Amer Schools (3)	
	Ethics (3)	
	Natural Science (3)	
C.	Distribution	14 sem. hrs.
	Humanities and Fine Arts	
	English Literature (3)	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics	
	MATH211 Analy Geom & Calc I (4)	
	MATH212 Analy Geom & Calc II (4)	
D.	Health and Physical Education	3 sem. hrs.
	Health Lecture & Activity (3)	
II.	Professional Education	33 sem. hrs.
	SEDU306 Content Literacy in the Middle/Secondary Schools (3)	
	SEDU381 Assessment for Middle and Secondary Classrooms (3)	
	SEDU471 Instructional Techniques for Mathematics (3)	

140/Curricula and Organization

SEDU475	Secondary Field Experience (3)		
SEDU491	Classroom Management in 7-12 Classrooms (3)		
SEDU495	Student Teaching (12)		
SPED210	Intro to Except. and Spec. Ed. (3)		
SPED370	Adapt. & Accom. Inclu. Clsrm (3)		
III.	Specialization in Mathematics	38 sem. hrs.	
A.	Required Courses	35 sem. hrs.	
MATH311	Analytic Geometry and Calculus III (4)		
MATH270	Discrete Mathematics I (3)		
MATH275	Linear Algebra (3)		
MATH350	Mathematical Probability & Statistics (3)		
MATH353	College Geometry (3)		
MATH370	Discrete Mathematics II (3)		
MATH372	Hist. Roots of Math. (3)		
MATH403	Math for Sec. Sch. Tch. (3)		
MATH404	Comp./Calc. in SEMA (3)		
MATH411	Math Analysis (3)		
MATH421	Abstract Algebra (3)		
MATH480	Mathematics Seminar (1)		
B.	Related Course	3 sem. hrs.	
CSCI130	Principles of Programming (3)		
	TOTAL	122 sem. hrs.	

BACHELOR OF SCIENCE IN EDUCATION – SECONDARY MATHEMATICS (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
MATH107	Pre-Calculus (4)		
PSYC101	General Psychology (3)		
	Core (3)		
	Core (3)		
	TOTAL	16 sem. hrs.	

Second Semester

ENGL102	Specialized College and Writing Skills (3)		
MATH211	Analytic Geometry and Calculus I (4)		
MATH270	Discrete Mathematics I (3)		
SEDU183	Tech. for Teaching and Learning (3)		
	Distribution (3) – English Literature		
	TOTAL	16 sem. hrs.	

Third Semester

MATH212	Analytic Geometry and Calculus II (4)		
MATH275	Linear Algebra (3)		
SEDU271	Multicultural Am. Schools (3)		
CSCI130	Principles of Programming (3)		
	Core (3)		
	TOTAL	16 sem. hrs.	

Fourth Semester

MATH311	Analytic Geometry and Calculus III (4)		
MATH370	Discrete Mathematics II (3)		
MATH421	Abstract Algebra (3)		
	Core (3)		
	Distribution (3)		
	TOTAL	16 sem. hrs.	

Fifth Semester

MATH350	Mathematical Prob./Statistics (3)		
MATH353	College Geometry (3)		
MATH372	Historical Root of Math (3)		
MATH411	Math Analysis (3)		
	Core (3)		
	TOTAL	15 sem. hrs.	

Sixth Semester

MATH403	Math for Sec. Sch. Tch. (3)		
MATH404	Comp./Calc. in SEMA (3)		
SPED210	Intro. To Except. & Spec. Ed. (3)		
SEDU306	Content Literacy in the Middle/Secondary Schools (3)		
	HPE Elective (3)		
	TOTAL	15 sem. hrs.	

Seventh Semester

SEDU471	Instructional Techniques for Mathematics (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
SEDU475	Sec. Ed. Field Experience (3)		
SPED370	Adapt. & Accom. Inclu. Clsrm. (3)		
MATH480	Math Seminar (1)		
	TOTAL	13 sem. hrs.	

Eighth Semester

SEDU491	Classroom Management in 7-12 Classrooms (3)		
SEDU495	Student Teaching (12)		
	TOTAL	15 sem. hrs.	

Bachelor of Science in Education Degree

Area of Certification – Secondary Physics

I.	General Education Requirements	52 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH107	Pre-Calculus (4)
	SEDU183	Tech for Teaching and Learning (3)
B.	Core	22 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior - PSYC101 (3)	
	Cultural Diversity and Social Pluralism - SEDU271 Multi-cult Amer Schools (3)	
	Ethics (3)	
	Natural Science - CHEM240 Principles of Chem I (4)	
C.	Distribution	14 sem. hrs.
	Humanities and Fine Arts (3)	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics	
	MATH211	Analyt Geom & Calc I (4)
	MATH212	Analyt Geom & Calc II (4)
D.	Health and Physical Education	3 sem. hrs.
	Health and (3)	
II.	Professional Education	33 sem. hrs.
	SEDU306	Content Literacy in Mid./Sec. Sch. (3)
	SEDU381	Assessment for Middle and Secondary Classrooms (3)
	SEDU472	Instructional Techniques for Secondary Science (3)
	SEDU475	Sec. Ed. Field Experience (3)
	SEDU491	Classroom Management in 7-12 Classrooms (3)
	SEDU495	Student Teaching (12)
	SPED210	Intro to Except and Spec Ed (3)
	SPED370	Adapt & Accom Inclu Clsrm (3)
III.	Specialization in Physics	31 sem. hrs.
	Required Courses	(22 sem. hrs.)
	PHYS150	Physics Orientation (3)
	PHYS312	Technical Electronics II (4)
	PHYS320	University Physics I (4)
	PHYS321	University Physics II (4)
	PHYS322	Physical Measurements I (1)
	PHYS323	Physical Measurements II (1)
	PHYS325	Intro. to Modern Physics (3)
	PHYS305/404/405	Advanced Lab* (2)
	* Select one course from the above	
	Physics Electives (9)	
	Take 3 of the following 5:	
	PHYS420	Mechanics I (3)
	PHYS430	Electricity and Mag. I (3)
	PHYS441	Thermal Physics (3)
	PHYS453	Quantum Physics (3)
	PHYS449	Math. Methods in Phys. (3)
IV.	Required Supporting Courses	10 sem. hrs.
	BIOL100	Intro to Biology (3)
	MATH317	Intro. to Diff. Equations (3)
	CHEM241	Principles of Chemistry II (4)
	TOTAL	126 sem. hrs.

* Counts as General Education.

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – SECONDARY PHYSICS

(Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
PHYS150	Physics Orientation (3)		
MATH107	Pre-Calculus (4)		
CHEM240	Principles of Chemistry I (4)		
	Core (3)		
		TOTAL	17 sem. hrs.

Second Semester

PHYS320	University Physics I (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH211	Analytic Geom. and Calculus I (4)		
CHEM241	Principles of Chemistry II (4)		
		TOTAL	15 sem. hrs.

Third Semester

PHYS321	University Physics II (4)		
SEDU271	Multi-cult in Amer Schools (3)		
MATH212	Analytic Geom. and Calculus II (4)		
PSYC101	General Psychology (3)		
	HPE Elective (3)		
		TOTAL	17 sem. hrs.

Fourth Semester

PHYS322	Physical Measurements I (1)		
PHYS325	Intro. to Modern Physics (3)		
SEDU183	Tech. for Teaching and Learning (3)		
SPED210	Intro to Except and Spec Ed (3)		
	Core (3)		
	Distribution (3)		
		TOTAL	16 sem. hrs.

Fifth Semester

PHYS323	Physical Measurements II (1)		
SEDU306	Content Literacy Mid/Sec Schools (3)		
MATH317	Intro. to Diff. Equations (3)		
	Choose one from the following Advanced Lab:		
	PHYS305/404/405 (2)		
BIOL100	Intro to Biology (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Sixth Semester

SPED370	Adapt & Accom Inclu Clsrms (3)		
PHYS312	Technical Electronics II (4)		
	Choose two from the following five physics electives (6):		
	PHYS420, PHYS430, PHYS441, PHYS453, or		
	PHYS449		
GEOG145	Environmental Issues (3)		
		TOTAL	16 sem. hrs.

Seventh Semester

SEDU475	Sec. Ed. Field Experience (3)		
SEDU472	Instructional Tech for Sec Science (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
	Choose one from the following five physics electives (3):		
	PHYS420, PHYS430, PHYS441, PHYS453, or		
	PHYS449		
	Core (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

SEDU491	Classroom Management in 7-12 Classrooms (3)		
SEDU495	Student Teaching (12)		
		TOTAL	15 sem. hrs.

Bachelor of Science in Education Degree

Area of Certification – Secondary Social Studies

I.	General Education Requirements		48 sem. hrs.
A.	Skills		12 sem. hrs.
	ENGL101	College Writing Skills (3)	
	ENGL102	Specialized College Writing and Research Skills (3)	
	MATH104	Finite Math or higher level (3)	
	SEDU183	Tech for Teaching and Learning (3)	
B.	Core		21 sem. hrs.
	Artistic Expression (3)		
	World Civilizations - HIST101 (3)		
	American Civilizations - HIST261 (3)		
	Human Behavior - PSYC101 (3)		
	Cultural Diversity and Social Pluralism SEDU271(3)		
	Ethics (3)		
	Natural Science (3)		
C.	Distribution		12 sem. hrs.
	Humanities and Fine Arts - Engl Lit 300 level or above (3)		
	Social and Behavioral Sciences		
	ECON225 (3)		
	ECON220 (3)		
	Natural Sciences and Mathematics- MATH 100 level or above (3)		
D.	Health and Physical Education		3 sem. hrs.
	Health and Activity (3)		
II.	Professional Education		33 sem. hrs.
	SEDU306	Content Literacy in the Middle/Secondary Schools (3)	
	SEDU473	Instructional Techniques for Social Studies (3)	
	SEDU475	Secondary Field Experience (3)	
	SEDU381	Assessment for Middle and Secondary Classrooms (3)	
	SEDU491	Classroom Management in 7-12 Classrooms (3)	
	SEDU495	Student Teaching (12)	
	SPED210	Intro to Except & Spec Ed (3)	
	SPED370	Adapt & Accom Inclus Clsrms (3)	
III.	Specialization in Social Studies		42 sem. hrs.
A.	Required Courses		(36)
	ANTH180	Introduction to Anthropology (3)	
	GEOG101	World Geography (3)	
	Or		
	GEOG130	Cultural Geography (3)	
	GEOG300	Level course or above (3)	
	HIST102	World Civilization II (3)	
	HIST262	U.S. History II (3)	
	HIST380	Pennsylvania Hist (3)	
	HIST100	Study of History (3)	
	Or		
	SOC250	Methods of Socio. Research (3)	
	SOC100	Principles of Sociology (3)	
	POLI201	American Government (3)	
	POLI315	American State and Local Government (3)	
	POLI240	Introduction to Comparative Government (3)	
	PSYC390	Social Psychology (3)	
	Or		
	SOC326	Society and Indiv. (3)	
B.	History Electives-		6 sem hrs.
	choose 1 U.S. and 1 World (6)		
	U.S.: HIST315, 336, 361, 362, 363, 364, 366, 370,		
	373, 375, 376, 377, 378, 383, 405, 415		
	World: HIST 303, 305, 306, 309, 310, 312, 314, 316,		
	318, 319, 323, 324, 330, 331, 332, 339, 341, 346, 347,		
	353, 355, 357, 358		
		TOTAL	123 sem. hrs.

142/Curricula and Organization

** A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

BACHELOR OF SCIENCE IN EDUCATION – SECONDARY SOCIAL STUDIES

(Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)
HIST101	World Civilization I(3)
MATH104	Finite Math or higher level (3)
PSYC101	General Psychology (3) Core (3)
TOTAL 15 sem. hrs.	

Second Semester

HIST261	History of U.S. I (3)
ENGL102	Specialized College Writing and Research Skills (3)
SOC100	Principles of Sociology (3)
ANTH180	Introduction to Anthropology (3) Dist 1 – Humanities and Fine Arts – Engl Lit 300 level or above (3)
TOTAL 15 sem. hrs.	

Third Semester

ECON225	Principles of Macroeconomics (3)
HIST102	World Civilizations II (3)
SEDU271	Multi-cult Amer Schools (3) Core (MATH at the 100 level or higher (3) HPE Elective (3)
TOTAL 15 sem. hrs.	

Fourth Semester

ECON220	Principles of Microeconomics (3)
HIST262	History of U.S. II (3)
SEDU183	Tech. for Teaching and Learning (3) Core (3) Core (3)
TOTAL 15 sem. hrs.	

Fifth Semester

GEOG101	World Geography (3)
Or	
GEOG130	Cultural Geography (3)
HIST100	Study of History (3)
Or	
SOC250	Methods of Soc. Research (3)
HIST380	Pennsylvania History (3)
POL1201	American Government (3)
SPED210	Intro to Except and Spec Ed (3) History Elective choose 1 U.S. Hist: U.S.: HIST315, 336, 361, 362, 363, 364, 366, 370, 373, 375, 376, 377, 378, 383, 405, 415
TOTAL 18 sem. hrs.	

Sixth Semester

SPED370	Adapt & Accom Includ Clsrm (3)
PSYC390	Social Psychology (3)
Or	
SOC326	Society and the Individual (3)
POL1315	American State and Local Government (3)
POL1240	Intro to Comparative Government (3) History Elective choose World History (3): World: HIST 303, 305, 306, 309, 310, 312, 314, 316, 318, 319, 323, 324, 330, 331, 332, 339, 341, 346, 347, 353, 355, 357, 358
TOTAL 15 sem. hrs.	

Seventh Semester

SEDU475	Sec. Ed. Field Experience (3)
SEDU381	Assessment for Middle and Secondary Classrooms (3)
SEDU306	Literacy in Mid/Sec Schools (3)
SEDU473	Instruc. Techniques/Science (3)
Geography Elective – 300 level or above (3)	
TOTAL 15 sem. hrs.	

Eighth Semester

SEDU491	Classroom Management in 7-12 Classrooms (3)
SEDU495	Student Teaching (12)
TOTAL 15 sem. hrs.	

Bachelor of Science in Art Education Degree

Please refer to the Art Department section for information regarding the Art Education program.

Health and Physical Education Department

FACULTY: Eileen Cullen, Kenneth R. Felker, Linda J. Felker, Michael Haesey, Mary McDade, Laura M. Miller, Shawn S. Reagan, George Roberts, James Roberts, Bonnie J. Scarpino, Ruth Stauffer

Bachelor of Science in Health and Physical Education

The Health and Physical Education Department offers undergraduate work leading to the Bachelor of Science degree in Health and Physical Education with a concentration in teacher certification, sport administration, recreation administration, health promotion, or human performance. The degree requires successful completion of a minimum of 120 hours of approved coursework consisting of a 48 hour general education program, a 27 hour core of professional courses and a concentration of 42 hours to complete departmental requirements for the various degree options.

General Education 48 sem. hrs.

Each student is required to complete a 48 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		9 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH104	Finite Math (3)	
B. Core		21 sem. hrs.
Artistic Expression (3)		
World Civilization (3)		
American Civilization (3)		
Human Behavior (PSYC101) (3)		
Cultural Diversity/Social Pluralism (3)		
Science and Technology (3)		
Ethics (3)		
C. Distribution		12 sem. hrs.
Humanities and Fine Arts (3-6)		
Social/Behavioral Sciences (3-6)		
Science and Mathematics (3-6) BIOL101 (3)		
D. Health and Physical Education		3 sem. hrs.

*Required courses will vary depending on concentration area.

Required Courses 27 sem. hrs.

HPE300	Applied Anatomy and Physiology in HPE* (3)
HPE265	Health Emergencies (3)
HPE311	Planning and Evaluation in Health and Physical Ed (3)
HPE384	Technology Integration (3)
HPE406	Worksite Field Experience (3) or
HPE405	Field Experience
HPE496	Internship in HPE (6-12) <i>or HPE495 Student Teaching (12)</i>

* HPE Department requires that BIOL101 be taken before this course. (Satisfies Dist. 3)

Health Promotion

The health promotion track prepares students to compete for the increasing number of employment opportunities in the areas of health promotion and disease prevention. This inter-disciplinary degree combines coursework from the areas of health education, exercise science, communication, philosophy, and psychology, as well as electives from areas of special interest. A full semester internship serves as the capstone course for the health promotion track providing students with valuable experience in settings such as state and local health departments, corporate wellness programs, public health agencies, hospitals and HMOs, and health clubs. After completion of the track, graduates are eligible to take the National Health Education Specialist (CHES) examination from the National Commission for Health Education Credentialing (NCHEC).

COMM312	Group Discussion (3)
COMM325	Interpersonal Communication (3)
CSCI104	Essential Computers I (3)
HPE132	Health/Fitness Promotion (3)
HPE135	Drugs/Alcohol/Tobacco (3)
HPE245	Human Sexuality (3)
HPE315	Management of Sport and Physical Education Programs (3)
HPE320	Consumer Health (3)
HPE355	Community Health (3)
HPE364	Health Methodology (3)
HPE400	Critical Issues in Health (3)
JOUR360	Writing for Public Relations (3)
JOUR365	Introduction to Public Relations (3)
PHIL265	Death and Dying (3)
PSYC319	Psychology of Aging (3)

Human Performance

The Human Performance track is designed for those interested in the exercise sciences, human performance, and/or personal training. Coursework prepares students through theory, practical application, and laboratory experiences to have the skills necessary for developing exercise programs, and health and wellness program design for a variety of populations including healthy, athletes, obese, etc. Professional career opportunities include: corporate fitness, cardiac rehabilitation, strength and conditioning coach, personal training, and research assistant.

After completion of the program, graduates will be prepared for several National Certifications in the health and fitness industry including personal training and group led exercise (aerobics). Students satisfactorily completing the required coursework will be granted a Bachelor of Science in Health and Physical Education with a concentration in Human Performance.

ENGL404	Technical Writing (3)
HPE132	Health and Fitness Promotion in the Workplace (3)
HPE222	Principles of Fitness Instruction (3)
HPE270	Sports Nutrition (3)
HPE301	Applied Human Anatomy & Physiology II in HPE (3)
HPE310	Care and Prevention of Athletic Injuries (3)
HPE314	Kinesiology (3)
HPE350	Exercise Physiology I (3)
HPE360	Adapted Physical Education (3)
HPE400	Critical Issues in Health (3)
HPE402	Legal Aspects of Spt/Rec (3)
HPE410	Faculty Mgmt/Oper (3)
HPE450	Exercise Physiology II (3)
HPE470	Research in Human Performance (3)

Recreation Administration

The recreation administration track is designed to prepare students who hold a strong desire to gain the necessary skills and experience to enter the recreation profession. The track will focus on such disciplines as leadership theory, personnel management, law and liability, program implementation, and recre-

ational facility design. Upon satisfactory completion of the required coursework, students will be granted a Bachelor of Science degree in Health and Physical Education with a concentration in recreation administration. This particular degree will qualify students for employment in such areas as: municipal recreation, collegiate recreation, corporate recreation, and private recreation. Also, upon completion of this degree graduates will be eligible to take the Recreational Sports Specialist Certification (CRSS) exam given by the National Intramural and Recreational Sports Association (NIRSA).

CSCI104	Essential Computers I (3)
HPE145	Intro to Rec/Leisure (3)
HPE252	Lead in Rec Management (3)
HPE315	Management of Sport and Physical Education Programs (3)
HPE324	Outdoor Rec Programming (3)
HPE402	Legal Aspects of Spt/Rec (3)
HPE410	Facility Mgmt/Oper (3)
HPE424	Cont. Issues in Recreation (3)
JOUR360	Writing for Public Relations (3)
JOUR365	Introduction to Public Relations (3)
JOUR425	Public Relations Program Design (3)
PSYC330	Sports Psychology (3)

Sport Administration

This sport administration track is designed to provide students with the necessary skills to become successful managers in sport related agencies. The sport management program combines coursework from the disciplines of physical education, communication, and journalism. Examples of sport management employment opportunities include interscholastic and intercollegiate athletics, facility management, minor and professional sport teams, sport clubs, and the physical fitness industry.

COMM325	Interpersonal Communications (3)
JOUR365	Introduction to Public Relations (3)
JOUR425	Public Relations Program Design (3)
CSCI104	Essential Computers I (3)
HPE132	Health/Fitness Promotion (3)
HPE315	Management of Sport and Physical Education (3)
HPE323	Soc/Cult/for Sport (3)
HPE402	Legal Aspects of Spr/Rec (3)
HPE410	Facility Mngmt/Oper (3)
JOUR216	Beginning Reporting (3)
JOUR324	Sports Writing (3)
JOUR360	Writing for Public Relations (3)
PSYC330	Sports Psychology (3)

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.

The State Board of Education adopted changes that affect all of Pennsylvania's teacher certification programs by adding nine credits or 270 hours or equivalent combination for adaptations and accommodations for diverse students in an inclusive setting and three credits or 90 hours or equivalent combination to meet the instructional needs of English Language Learners. Although these regulatory changes became effective on September 22, 2007, the Pennsylvania Department of Education has not developed **final** requirements for colleges/universities to follow. Therefore, additional program requirements will be developed and incorporated into your certification program to comply with new regulations for certifying teachers that become effective on January 1, 2013.

The State Board of Education also adopted changes specific to early childhood, elementary (K-6) and special education. New certification guidelines will apply January 1, 2013 regardless of a candidate's enrollment date. Candidates seeking current certifications must complete their program by December 3, 2012.

SEDU271	Educ in Multicultural Society (3)
HPE133	Personal and Community Health I (3)
HPE135	Drugs/Alcohol/Tobacco (3)
HPE215	Pedagogy of Activities and Gymnastics (3)

144/Curricula and Organization

HPE220	Pedagogy for Team Games I (3) <i>or HPE225 Pedagogy Team Games II (3)</i>
HPE222	Principles of Fitness Instruction (3)
HPE230	Pedagogy of Life Activities I (3)
HPE245	Human Sexuality (3)
HPE278	PE in the Elementary School (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)
SPED330	Exp. Lrnrs. P-12 Incl. Clsrn. (3)

** The School of Education requires that PSYC101 General Psychology be completed before this course. (Satisfies Core - 4)

**BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION – HEALTH PROMOTION
(Suggested Eight-Semester Sequence)**

First Semester

ENGL101	College Writing Skills (3)
HPE132	Health/Fitness Promo (3)
MATH104	Finite Mathematics (3)
PSYC101	General Psych. (Core 4) (3) HPE Wellness/Activity (3)
TOTAL	
	15 sem. hrs.

Second Semester

BIOL101	Human Biology (3)
CSCI104	Essential Computing (3)
ENGL102	Specialized College Writing and Research Skills (3)
HPE135	Alcohol, Tobacco/Drug Use (3) Core 2 (3)
TOTAL	
	15 sem. hrs.

Third Semester

COMM107	Fund. Speech (Distribution) (3)
HPE245	Human Sexuality (3)
HPE300	Applied Anatomy and Physiology in HPE (3) Core 1 (3) Core 3 (3)
TOTAL	
	15 sem. hrs.

Fourth Semester

COMM325	Interpersonal Comm. (3)
HPE265	Health Emergencies (3)
PHIL265	Death and Dying (3) Core 5 (3) Core 6 (3)
TOTAL	
	15 sem. hrs.

Fifth Semester

HPE311	Planning and Evaluation in HPE (3)
HPE355	Community Health Ed. (3)
HPE384	Technology Integration in HPE (3)
JOUR360	Writing for Public Relations (3) Core 7 (3) Distribution (3)
TOTAL	
	18 sem. hrs.

Sixth Semester

COMM312	Group Discussion (3)
HPE315	Mgmt. Sport/PE Prog. (3)
HPE320	Consumer Health (3)
HPE364	Health Methodology (3) Distribution (3)
TOTAL	
	15 sem. hrs.

Seventh Semester

COMM365	Intro to Public Relations (3)	
HPE400	Critical Issues in Health (3)	
HPE406	Field Experience (3)	
PSYC319	Psychology of Aging (3)	
	Free Elective (3)	
TOTAL		15 sem. hrs.

Eighth Semester

HPE496	Internship in HPE (12)	
TOTAL		12 sem. hrs.

**SCIENCE IN HEALTH AND PHYSICAL EDUCATION – HUMAN PERFORMANCE
(Suggested Eight-Semester Sequence)**

First Semester

ENGL101	College Writing Skills (3)	
HPE132	Health/Fitness Promo (3)	
MATH104	Finite Mathematics (3)	
PSYC101	General Psych. (Core 4) (3) HPE Wellness/Activity (3)	
TOTAL		15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
HPE222	Principles of Fitness Instruction (3)	
HPE270	Sports Nutrition (3)	
MATH260	Elementary Statistics (3)	
PHYS101	Physical Science (3)	
TOTAL		15 sem. hrs.

Third Semester

HPE265	Health Emergencies (3)	
HPE300	Applied Anatomy and Physiology in HPE (3) Core (3) Core (3) Distribution (3)	
TOTAL		15 sem. hrs.

Fourth Semester

CSCI104	Essential Computing I (3)	
HPE301	Applied Human Anatomy II (3)	
HPE400	Critical Issues in Health (3) Core (3) Core (3)	
TOTAL		15 sem. hrs.

Fifth Semester

HPE310	Care and Prevention of Athletic Injuries (3)	
HPE311	Planning and Evaluation in HPE (3)	
HPE314	Kinesiology (3)	
HPE350	Exercise Physiology I (3) Core (3) Distribution (3)	
TOTAL		18 sem. hrs.

Sixth Semester

ENGL404	Technical Writing (3)	
HPE360	Adapted Physical Education (3)	
HPE384	Technology Integration in HPE (3)	
HPE402	Legal Aspects of Sports and Recreation (3)	
HPE410	Faculty Mgmt/Oper (3)	
TOTAL		15 sem. hrs.

Seventh Semester

HPE406	Worksite Field Experience (3)	
HPE450	Exercise Physiology II (3)	
HPE470	Research in Human Performance (3) Distribution (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 – RECREATION ADMINISTRATION (Suggested Eight-Semester Sequence)

First Semester			
ENGL101	College Writing Skills (3)		
HPE145	Introduction to Recreation/Leisure Mgmt. (3)		
MATH104	Finite Mathematics (3)		
	Core (3)		
	Distribution 1 (3)		
		TOTAL	15 sem. hrs.

Second Semester			
BIOL101	Human Biology (3)		
CSCI104	Essential Computing I (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
PSYC101	General Psychology (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Third Semester			
HPE265	Health Emergencies (3)		
HPE300	Applied Anatomy and Physiology in HPE (3)		
PSYC330	Sports Psychology (3)		
	HPE (General Education) (3)		
	Core (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Fourth Semester			
HPE252	Leadership in Rec. Mgmt. (3)		
HPE311	Planning and Evaluation in HPE (3)		
	Core (3)		
	Free Elective (3)		
	HPE Course (Dist. D) (3)		
		TOTAL	15 sem. hrs.

Fifth Semester			
HPE315	Management of Sport/PE Programs (3)		
HPE384	Technology Integration in HPE (3)		
JOUR360	Writing for Public Relations (3)		
JOUR365	Introduction to Public Relations (3)		
	Core (3)		
	Distribution (3)		
		TOTAL	18 sem. hrs.

Sixth Semester			
HPE324	Outdoor Recreation Prog. (3)		
HPE402	Legal Aspects of Sports and Recreation (3)		
HPE406	HPE Field Experience (3)		
	Distribution 2 (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Seventh Semester			
HPE410	Facility Management and Operations (3)		
HPE424	Contemporary Issues in Recreation (3)		
JOUR425	Public Relations Program Design (3)		
	Core (3)		
	Free Electives (6)		
		TOTAL	15 sem. hrs.

Eighth Semester			
HPE496	Internship in HPE (12)		
		TOTAL	12 sem. hrs.

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION – SPORT ADMINISTRATION (Suggested Eight-Semester Sequence)

First Semester			
COMM107	Public Speaking (3)		
ENGL101	College Writing Skills (3)		
MATH104	Finite Mathematics (3)		
PSYC101	General Psychology (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Second Semester			
BIOL101	Human Biology (3)		
COMM325	Interpersonal Communications (3)		
CSCI104	Essential Computing I (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
HPE132	Health and Fitness Promotion in the Workplace (3)		
		TOTAL	15 sem. hrs.

Third Semester			
HPE300	Applied Anatomy and Physiology in HPE (3)		
JOUR216	Beginning Reporting (3)		
PSYC330	Sports Psychology (3)		
	Core (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Fourth Semester			
JOUR365	Introduction to Public Relations (3)		
HPE265	Health Emergencies (3)		
JOUR324	Sports Writing (3)		
	Core (3)		
	Free Elective (3)		
	HPE Course (Dist. D) (3)		
		TOTAL	18 sem. hrs.

Fifth Semester			
HPE311	Planning and Evaluation in HPE (3)		
HPE315	Management of Sport and Physical Education Programs (3)		
JOUR360	Writing for Public Relations (3)		
JOUR425	Public Relations Program Design (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Sixth Semester			
HPE323	Soc/Cult Foundations of Sport (3)		
HPE402	Legal Aspects of Sports/Recreation (3)		
HPE406	Worksite Field Experience (3)		
	Core (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

Seventh Semester			
HPE384	Technology Integration in HPE (3)		
HPE410	Facility Management/Operations (3)		
	Core (3)		
	Core (3)		
	Free Electives (6)		
		TOTAL	15 sem. hrs.

Eighth Semester			
HPE496	Internship in HPE (12)		
		TOTAL	12 sem. hrs.

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION – TEACHER CERTIFICATION
(Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
HPE133	Personal and Community Health I (3)		
HPE 220	Pedagogy for Team Games I or HPE225 Pedagogy Team Games II (3)		
MATH104	Finite Mathematics (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Second Semester

ENGL102	Specialized College Writing and Research Skills (3)		
ENGL115	Intro to Literature (Core I) (3)		
HPE135	Drugs/Alcohol/Tobacco (3)		
HPE222	Principles of Fitness Instruction (3)		
HPE265	Health Emergencies (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Third Semester

BIOL101	Human Biology (3)		
HPE215	Pedagogy for Individual Activities (3)		
HPE245	Human Sexuality (3)		
PSYC101	General Psychology (Core 4) (3)		
SEDU271	Educ. In Multicultural Society (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fourth Semester

HPE230	Pedagogy for Lifetime Activities (3)		
HPE278	Physical Education in the Elementary School (3)		
HPE300	Applied Human Anatomy/Physiology in HPE (3)		
	Core (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

Fifth Semester

HPE301	Applied Human Anatomy/Physiology in HPE II (3)		
HPE311	Planning and Evaluation in HPE (3)		
HPE314	Kinesiology (3)		
HPE364	Health Methodology (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Sixth Semester

HPE306	Classroom Management in HPE (3)		
HPE315	Management of Sports/Physical Education Programs (3)		
HPE360	Adapted Physical Education (3)		
HPE384	Technology Integration in HPE (3)		
HPE414	Exercise Physiology (3)		
		TOTAL	15 sem. hrs.

Seventh Semester

HPE400	Critical Issues in Health (3)		
HPE405	HPE Field Experience (3)		
SPED330	Excp. Lrnrs. P-12 Incl. Clsrm. (3)		
	Distribution (3)		
	Distribution (3)		
		TOTAL	15 sem. hrs.

Eighth Semester

HPE495	Student Teaching (12)		
		TOTAL	12 sem. hrs.

For non-majors, the following classes have been approved to count as the one credit activity class and the two credit health and physical education requirement: HPE111 Wellness/Bicycling, HPE112 Women's Wellness/Weight Training and Aerobics, HPE113 Wellness/Walking, HPE114 Wellness/Tennis, HPE115 Wellness/Social Dancing, HPE116 Lifeguarding, HPE118

Wellness/Golf, HPE121 Wellness/Cross Country Skiing, HPE124 Wellness/Step Aerobics, HPE125 Wellness/Aquatic Fitness, and HPE126 Wellness/Weight Training. These courses replace all HPE general education courses from HPE052 through HPE110.

Special Programs

Bachelor of Arts Degree

Natural Sciences and Mathematics

This program provides students with a broad background in the fundamentals of science and mathematics and yet allows great flexibility. As a non-departmental curriculum, it facilitates inter-disciplinary study and also provides for the opportunity to concentrate in one area. The initial program must be planned in consultation with the student's faculty advisor and approved by the dean of Science, Management and Technology.

I.	General Education Requirements	51 sem. hrs.
II.	Specialization	42 sem. hrs.
	MATH (Courses to be selected with prior approval of Mathematics and Computer Science Department) (7-8)	
	BIOL103 Principles of Biology (4)	
	BIOL230 Botany (4) or BIOL240 Zoology (4)	
	CHEM140, 141 General Chemistry, Bioorganic Chemistry (8) or CHEM240, 241 Principles of Chemistry I, II (8)	
	PHYS201, 202 and one of the following:	
	PHYS301 Nature of Sound	
	PHYS302 Nature of Light and Color	
	PHYS303 Nature of Nuc. Energy	
	GEOS101 and two of the following four:	
	GEOS109	
	GEOS310	
	GEOS112	
	GEOS320	
III.	Electives from Natural Sciences and Mathematics	12 sem. hrs.
	Nine credits must be 300 level or higher	
IV.	Electives (300 level courses or higher)	27 sem. hrs.
	TOTAL	120 sem. hrs.

BACHELOR OF ARTS – NATURAL SCIENCE AND MATHEMATICS

(Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)		
	Math Block A - First Course:		
	Math Block B – First Course:		
MATH107	Precalculus (4) or		
	Analytical Geom. and Calculus I (4)		
MATH211	Dynamic Earth (3)		
GEOS101	HPE Elective (3)		
	Core (3)		
		TOTAL	16 sem. hrs.

Second Semester

ENGL10	2 Specialized College Writing and Research Skills (3)		
CSCI104	Essential Computing I (3)		
	Math Block A – Second Course:		
MATH211	Analytical Geom. and Calculus I (4) or		
	Math Block B – Second Course:		
MATH212	Analytical Geom. and Calculus II (4)		
	Core (3)		
	Core (3)		
		TOTAL	16 sem. hrs.

Third Semester

BIOL103	Principles of Biology (4)		
PHYS201	Physics I (4)		
	GEOS Block A – First Course (3)		
	Core (3)		
	Core (3)		
		TOTAL	17 sem. hrs.

Fourth Semester		Chemistry Block A – First Course: General Chemistry (4) or Chemistry Block B – First Course: Principles of Chemistry I (4)			
CHEM140		PHYS202	Physics II (4) Core (3) Distribution (3)		
				TOTAL	14 sem. hrs.
Fifth Semester		Chemistry Block A – Second Course: Bio-organic Chemistry (4) or Chemistry Block B – Second Course: Principles of Chemistry II (4)			
CHEM141		CHEM241	Science and Math Elective (3) Distribution (3) PHYS301, PHYS302 or PHYS303 (4)		
				TOTAL	14 sem. hrs.
Sixth Semester		Zoology (4) or Botany (4)			
BIOL240		BIOL230	Science and Math Elective (6) Free Elective (6)		
				TOTAL	16 sem. hrs.
Seventh Semester		GEOS Block A – Second Course (3) Science and Math Elective (3) Free Elective (9)			
				TOTAL	15 sem. hrs.
Eighth Semester		Free Elective (3) Free Elective (3) Free Elective (3) Free Elective (3)			
				TOTAL	12 sem. hrs.
Second Semester		CSCI104 ENGL102	Essential Computing (3) Specialized College Writing and Research Skills (3) Economics Elective (3) Core (3) Core (3)		
				TOTAL	15 sem. hrs.
Third Semester		Geography Elective (3) Psychology Elective (3) Distribution (3) Core (3) HPE Elective (3)			
				TOTAL	15 sem. hrs.
Fourth Semester		Soc. or Anthropology Elective (3) History Elective (3) Free Elective (3) Core (3) Distribution (3)			
				TOTAL	15 sem. hrs.
Fifth Semester		Geography Elective (3) Economics Elective (3) Core (3) Distribution (3) Distribution (3)			
				TOTAL	15 sem. hrs.
Sixth Semester		Political Science Elective (3) Psychology Elective (3) Core (3) Free Elective (3) Free Elective (3)			
				TOTAL	15 sem. hrs.
Seventh Semester		Anthropology or Soc. Elective (3) History Elective (3) Free Elective (3) Free Elective (3) Free Elective (3)			
				TOTAL	15 sem. hrs.
Eighth Semester		Economics Elective (3) Free Elective (3) Free Elective (3) Free Elective (3) Free Elective (3)			
				TOTAL	15 sem. hrs.

Bachelor of Arts Degree

Social Science

I.	General Education Requirements	48 sem. hrs.
II.	Social Sciences Requirements	42 sem. hrs.
	A student will distribute 42 hours among the following disciplines of:	
	Economics (6)	
	Geography (6)	
	History (6)	
	Political Science (6)	
	Psychology (6)	
	Sociology-Anthropology (6)	
	Two additional courses in one of the above disciplines (6)	
III.	Free Electives	30 sem. hrs.
	Majors are strongly urged to take courses in statistics and/or courses designed to develop reading skills in a foreign language. These courses may be included in the general education requirements listed above.	
		TOTAL
		120 sem. hrs.

BACHELOR OF ARTS – SOCIAL SCIENCE (Suggested Eight-Semester Sequence)

First Semester

ENGL101	College Writing Skills (3)	
MATH104	Finite Mathematics (3)	
HIST261	U.S. History I (3)	
POL1201	American Government (3) Core (3)	
		TOTAL
		15 sem. hrs.

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 select and combine courses into concentration areas appropriate to their career pursuits.

I.	General Education Requirements	48 sem. hrs.
II.	Individualized Studies Concentration	42 sem. hrs.
A.	No more than 24 semester hours of the same course prefix may be used in the individualized studies concentrations.	

B. Introductory courses may not be used to fulfill the individualized studies concentration.	
C. Courses used in the individualized studies concentration cannot be used to fulfill a minor program requirement.	
D. 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	30 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
Core 2:	World Civilizations
Core 4:	Human Behavior

Second Semester

Computer Competency	
ENGL102	Specialized College Writing and Research Skills (3)
Core 3:	American Civilizations
Core 5:	Cultural Diversity
Core 7:	Science and Technology

Third Semester

Concentration (3 credits)	
Core 6:	Ethics
Distribution 1:	Arts and Humanities
Distribution 2:	Social and Behavioral Sciences
Free Elective (3 credits)	

Fourth Semester

Concentration (6 credits)	
Distribution 3:	Science and Mathematics
Health and Physical Education (3 credits)	
Free Elective (3 credits)	

Fifth Semester

Concentration (6 credits)	
Distribution 1, 2 or 3 second course	
Free Elective (6 credits)	

Sixth Semester

Concentration (9 credits)	
Free Elective (6 credits)	

Seventh Semester

Concentration (9 credits)	
Free Elective (6 credits)	

Eighth Semester

Concentration (9 credits)	
Free Electives (6 credits)	

Minor Programs

The purpose of Minor programs is to allow students to follow a planned program of coursework in addition to their own major. Minor program requirements vary between fifteen semester hours and twenty-four semester hours.

Minor programs are self-advised. They are structured to enable students to follow the program with limited advice.

The student must complete an application form for each minor and submit it to the Office of Records and Registration no later than their last semester prior to graduation. A student is limited to two minors he/she can apply for or complete. Minor requirements must be complete at the time of graduation. The dean of the school in which the graduating student is majoring will certify satisfactory completion of the minor(s).

The official transcript will show any minor program the student has satisfactorily completed at the time of graduation.

Africana Studies

The program permits students to focus on African and African-American history and African-American literature. Moreover, students can learn about geography, philosophy, sociology and other disciplines and their relationship to the Africana experience. Secondly, the demand for Africana studies at Edinboro University has increased significantly in the past five years. Students have consistently asked for the minor as well as for more courses on the black experience. Presently, we have a core of faculty members who have the expertise and the desire to offer courses in the field of Africana studies. Finally, as we prepare for the 21st century, we will be living in a more diverse and multiethnic society. It will be important that our students develop a knowledge base, values, and an appreciation for different cultures and different historical experiences.

Africana Studies is the systematic and critical study of the multidimensional aspects of African thought and actions. As an interdisciplinary discipline, the minor encourages both a specialized and integrative approach to subject areas in the social sciences and humanities. It seeks to provide students with a conceptual framework for examining the thought and actions of Africans and African-Americans. Courses within the minor are derived from various disciplines and thus this program seeks to integrate knowledge and practice with a multidisciplinary approach.

“Africana Studies” is chosen because it is one of the most widely used designations and it best describes the conceptual framework of our specific program. Africana Studies include courses that have the Africana experience as the principal object and content of the continental African experience in Africa and the Diaspora African experience, i.e., the African experience and influence in the United States, South America, the Caribbean, Canada, and the world.

Prerequisites:

None

Curriculum:

A. Required Courses		12 sem. hrs.
HIST271	Black America I (3)	
HIST272	Black America II (3)	
ENGL310	African-American Literature (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)	
PHIL312	Black/White: Appearance and Reality (3)	
SSCI273	Black Images in Film (3)	
SOC364	Race and Ethnic Relations (3)	
HIST565	Slavery, Civil War, and Reconstruction (3)	
TOTAL		21 sem. hrs.

Anthropology

Prerequisites:

None

Curriculum:

Any Anthropology courses and up to six semester hours of Archaeology courses of the student's choice to total	18 sem. hrs.
TOTAL	18 sem. hrs.

Applied Computer Technology

The Applied Computer Technology minor allows the student to obtain the skills necessary to successfully use the computer in a variety of disciplines, while concurrently allowing the student to concentrate their studies in another major area of interest. The combination of this minor with any other field of study should lead to many additional employment opportunities for the student. The 15 hours required for the minor meet general education requirements.

Prerequisites:

None

Curriculum:

CSCI104	Essential Computing I (3)	
CSCI204	Essential Computing II (3)	
CSCI207	Programming in Visual Basic (3)	
CSCI280	Principles of System Operations and Administration (3)	
CSCI304	Web Development and Enterprise Computing (3)	
TOTAL		15 sem. hrs.

Applied Mathematics

MATH208	Essentials of Calculus (3)
MATH275	Linear Algebra I (3)
MATH270	Discrete Math I (3)
MATH260	Elements of Statistics (3)
MATH360	Statistical Inference (3)

One of the following two courses:

MATH209	Math of Finance (3) or
MATH370	

TOTAL 18 sem. hrs.

Archaeology**Prerequisites:**

None

Curriculum:

Any Archaeology courses of the student's choice to total 18 sem. hrs.

TOTAL 18 sem. hrs.

Art History**Prerequisites:**

None

Curriculum:

* Any Art History Courses 21 sem. hrs.

TOTAL 21 sem. hrs.

* ART100 Intro to Art will not count toward a minor.

Astronomy**Prerequisites:**

For both the PHYS320, PHYS321 and the PHYS371, PHYS372 sequences, the courses MATH211 Calculus I and MATH212 Calculus II are required.

Curriculum:

A. Basic Physics Sequence 8 sem. hrs.

PHYS201	Physics I (4)
PHYS202	Physics II (4) or
PHYS320	University Physics I (4)
PHYS321	University Physics II (4)

B. Basic Astronomy Sequence 6 or 9 sem. hrs.

PHYS271	Frontiers in Astronomy (3)
PHYS371	The Solar System (3)
PHYS471	Relativity, Black Holes and Cosmology (3)

C. Solar Phenomena 3 sem. hrs.

PHYS472	The Sun (3)
---------	-------------

TOTAL 15 or 20 sem. hrs.

Athletic Coaching**Prerequisites:**

None

Curriculum:

Required Courses 21 sem. hrs.

HPE222	Principles of Fitness Instruction (3)
HPE270	Sports Nutrition (3)
HPE310	Care and Prevention of Athletic Injuries (3)
HPE323	Socio-Cultural Foundations Sport (3)
HPE428	Coaching Techniques* (3)
HPE350	Exercise Physiology (3)

One of the following courses

HPE220	Pedagogy for Team Sports (Basketball, Track and Field, Soccer) (3)
--------	--

HPE225	Pedagogy for Team Sports (Softball, Volleyball, Football) (3)
--------	---

HPE230	Pedagogy for Lifetime Activities: (Golf/Tennis/Badminton) (3)
--------	---

TOTAL 21 sem. hrs.

* A department committee with approval of the department chairperson or the department chairperson will grant or deny the waiver of these 3 credits. In either case, the recommendation will be forwarded to the dean. A consultation

between the dean and the department chairperson will occur when there is a difference in recommendation. A copy of the approval waiver will be sent to the registrar for the student's academic file.

Biology**Prerequisites:**

None

Curriculum:

A. Required Course(s) 4-8 sem. hrs.

(Options 1 or 2 below)

Option 1 4 sem. hrs.

BIOL103 Principles of Biology (4)

(Any two of the following courses will be accepted for 4 sem. hrs. credits in lieu of the BIOL103 course.)

BIOL100 Intro to Biology (3)

BIOL101 Human Biology (3)

BIOL102 Environmental Biology (3)

Option 2 8 sem. hrs.

BIOL312 Human Physiology and Anatomy I (4)

BIOL313 Human Physiology and Anatomy II (4)

(BIOL340 Animal Physiology and BIOL341 Vertebrate Anatomy cannot be used as electives under this option.)

B. Electives* 12-16 sem. hrs.

*Any course with a BIOL prefix may be chosen under this category except the following:

BIOL100 Intro to Biology (3)

BIOL103 Principles of Biology (4)

BIOL101 Human Biology (3)

BIOL304 Biology of Aging (3)

BIOL306 Introduction to Human Genetics (3)

BIOL310 Human Anatomy and Physiology (4)

BIOL311 Basic Experimental Physiology (3)

BIOL312 Human Physiology and Anatomy I (4)

BIOL313 Human Physiology and Anatomy II (4)

BIOL102 Environmental Biology (3)

Any course with PYMA prefix.

TOTAL 20 sem. hrs.

Ceramics**Prerequisites:**

Art Major

Curriculum:

A. Required courses:

ART101 Two Dimensional Design (3)

ART102 Three Dimensional Design (3)

ART216 Ceramics I (3)

ART217 Ceramics II (3)

ART315 Intermediate Ceramics (3)

B. Select two courses from the following:

ART315 Intermediate Ceramics (3)

ART480 Advanced Ceramics (3)

ART236 Wood Furniture I (3)

ART211 Metals I (3)

Any ARHI (Art History) course (3)

TOTAL 21 sem. hrs.

Chemistry**Prerequisites:**

None

Curriculum:

A. Required Courses 12 sem. hrs.

CHEM240 Principles of Chemistry I (4)

CHEM241 Principles of Chemistry II (4)

CHEM310 Quantitative Analysis (4)

B. Electives 7-8 sem. hrs.

Any Chemistry courses from the 300 level or higher

TOTAL 19-20 sem. hrs.

Cinema**Prerequisites:**

Art Major

Curriculum:

- A. Select a combination of 15 credits from the following: 15 sem. hrs.
- | | | |
|--------|-----------------------------------|--|
| ART267 | Film and Video Production (3) | |
| ART268 | Beginning Animation (3) | |
| ART363 | Film Aesthetics (3) | |
| ART364 | Problems in Film (3) | |
| ART367 | Intermediate Film/Video (3 or 6) | |
| ART368 | Documentary Film (3) | |
| ART369 | Experimental Film (3) | |
| ART467 | Advanced 16mm Production (3 or 6) | |
- B. Any ART (Art) or ARHI (Art History) course with the exception of
ART100 Intro to Art 3 sem. hrs.
- C. Any additional course from A or B 3 sem. hrs.
- TOTAL 21 sem. hrs.

Computer Science

The purpose of the Computer Science Minor is to provide the student with an opportunity to gain knowledge of the computer and skill in applying its technology to his/her major field of study. The minor can be coordinated with virtually any academic discipline.

A minimum of eighteen (18) semester hours of courses in Computer Science is required:

Nine (9) semester hours:

- | | |
|---------|--------------------------------------|
| CSCI125 | Introduction to Computer Science (3) |
| CSCI130 | Principles of Programming I (3) |
| CSCI230 | Principles of Programming II (3) |

Three (3) semester hours from the following:

- | | |
|---------|-----------------------------------|
| CSCI320 | Business Programming in COBOL (3) |
| CSCI330 | Object Oriented Programming (3) |

Six (6) semester hours from the following:

- | | |
|---------|---|
| CSCI280 | Principles of System Operation and Administration (3) |
| | any 300, 400 or 500 level Computer Science courses* |

- Suggested track for business majors

- | | | | | | | | |
|---------|----|---------|----|---------|----|---------|---------|
| CSCI125 | -> | CSCI130 | -> | CSCI230 | -> | CSCI320 | |
| | | | | | | -> | CSCI280 |
| | | | | | | -> | CSCI313 |
| | | | | | | or | |
| | | | | | | -> | CSCI308 |

- Suggested track for science majors

- | | | | | | | | |
|---------|----|---------|----|---------|----|---------|---------|
| CSCI125 | -> | CSCI130 | -> | CSCI230 | -> | CSCI330 | |
| | | | | | | -> | CSCI280 |
| | | | | | | -> | CSCI310 |

TOTAL 18 sem. hrs.

* Some 300-level Computer Science courses require MATH270. You must choose courses in parts A and B above which allow you to satisfy all prerequisites for all upper level Computer Science courses that you take.

Creative Writing**Prerequisites:**

ENGL101/103 and ENGL102/104

Curriculum:

Seven courses in the following sequence:

- | | | |
|---------------------------------|------------------------------|--------------|
| A. Core | | 6 sem. hrs. |
| ENGL301 | Creative Writing (3) | |
| ENGL385 | Advanced Composition (3) | |
| B. Intermediate Writing Courses | | 12 sem. hrs. |
| <i>Choose four from:</i> | | |
| ENGL322 | Screenwriting (3) | |
| THEA351 | Playwriting (3) | |
| ENGL402 | Fiction Workshop (3) | |
| ENGL403 | Poetry Workshop (3) | |
| ENGL440 | Essay Workshop (3) | |
| C. Advanced Writing Course | | 3 sem. hrs. |
| <i>Choose four from:</i> | | |
| ENGL441 | Advanced Fiction Writing (3) | |

TOTAL 21 sem. hrs.

- | | |
|---------|----------------------------------|
| ENGL442 | Advanced Poetry Writing (3) |
| ENGL443 | Advanced Creative Nonfiction (3) |
| ENGL444 | Advanced Screenwriting (3) |

Criminal Justice**Curriculum:**

- | | | |
|------------------|--------------------------------------|--------------|
| Required Courses | | 24 sem. hrs. |
| POLI201 | American Government (3) | |
| SOC100 | Principles of Sociology (3) | |
| CRIM100 | Introduction to Criminal Justice (3) | |
| CRIM330 | Introduction to Policing (3) | |
| CRIM310 | Introduction to Corrections (3) | |
| POLI365 | Prosecution and the Courts (3) | |
| SOC532 | Criminology (3) | |
| CRIM500 | Seminar in Criminal Justice (3) | |
| TOTAL | | 24 sem. hrs. |

Critical Thinking**Prerequisites:**

None

Curriculum:

- | | | |
|------------------------------------|--|--------------|
| A. Required Courses | | 9 sem. hrs. |
| PHIL121 | Critical Thinking (3) | |
| PHIL221 | Beginning Logic (3) | |
| COMM416 | Persuasion and Propaganda (3) | |
| B. Electives | | 9 sem. hrs. |
| Three courses to be selected from: | | |
| PHIL320 | Logic (3) | |
| PHIL324 | Investigations of Claims of the Paranormal (3) | |
| POLI322 | Public Opinion and Propaganda (3) | |
| PSYC300 | Learning Theory and Application (3) | |
| PSYC390 | Social Psychology (3) | |
| COMM515 | Criticism of Mass Media Communication (3) | |
| PHYS103 | Physics I (4) or | |
| CHEM120 | Elementary Chemistry (3) or | |
| CHEM140 | General Chemistry (4) | |
| TOTAL | | 18 sem. hrs. |

Drawing**Prerequisites:**

Art major

21 sem. hrs.

Curriculum:

- | | | |
|--------|---|--------------|
| ART106 | Drawing I (3) | |
| ART107 | Drawing II (3) | |
| ART231 | Painting I (3) | |
| ART307 | Intermediate Drawing (3) | |
| ART307 | Intermediate Drawing or any Drawing course 300 level or above (3) | |
| ART410 | Advanced Drawing (3) or any Drawing course 300 level or above (3) | |
| | Any Art History course 300 level or above (3) | |
| TOTAL | | 21 sem. hrs. |

Earth Sciences**Prerequisites:**

None

Curriculum:

- | | | |
|--|----------------------------------|--------------|
| A. Required Courses | | 15 sem. hrs. |
| GEOS101 | 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. | | |
| B. One additional course in geology, meteorology, oceanography or astronomy is required. (GEOS109 Atmospheric and Space Science may not be taken to fulfill this requirement.) | | |
| TOTAL | | 18 sem. hrs. |

Economics**Prerequisites:**

None

Curriculum:

A. Required Courses		9 sem. hrs.
ECON220	Principles of Microeconomics (3)	
ECON225	Principles of Macroeconomics (3)	
MATH105	College Algebra (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 is an abbreviated version of the B.A. degree program in English. Within its 21 required hours, the student will sample English, American and comparative literature, and elect at least two upper division English courses. In addition, each student will complete at least one upper division writing course and a language course.

Prerequisites:

ENGL101 College Writing Skills or ENGL103 College Writing Skills Advanced and ENGL102 Specialized Writing and Research Skills or ENGL104 Specialized Writing and Research Skills Advanced.

Curriculum:

A. Required Courses		15 sem. hrs.
ENGL201	American Literature Survey I (Origins-1865) (3) or	
American Literature Survey II (1865-Present) (3)		
ENGL211	Traditional Grammar (3)	
ENGL241	English Literature from Chaucer to Milton (3) or	
English Literature from Swift to the Moderns (3)		
ENGL260	Literature of the Classical World (3)	
ENGL385	Advanced Composition (3)	
B. Upper level English Electives		6 sem. hrs.
(May be taken from 300, 400 or 500 levels.)		
	TOTAL	21 sem. hrs.

Environmental Geology**Prerequisites:**

None

Curriculum:

A. Required Courses		9 sem. hrs.
GEOS101	Dynamic Earth (3)	
GEOS112	Principles of Earth History (3)	
GEOS375	Environmental Geology (3)	
B. At least three courses to be selected from:		9 sem. hrs.
GEOS310	Intro to Oceanography (3)	
GEOS515	Mineral Resources (3)	
GEOS541	Geomorphology (3)	
GEOS545	Introduction to Hydrogeology (3)	
	TOTAL	18 sem. hrs.

Environmental Studies**Prerequisites:**

None

Curriculum:

Required Courses		18-19 sem. hrs.
GEOG145	Environmental Issues (3)	
GEOG245	Conservation of Natural Resources (3)	
GEOS101	Dynamic Earth (3) or	
GEOS104	Intro. to Earth Environments (3)	
GEOS109	Atmosphere and Space Science (3)	
BIOL102	Environmental Biology (3) or	
BIOL500	Ecology (3)	
CHEM120	Elementary Chemistry (3) or	
CHEM140	General Chemistry (4) or	
CHEM240	Principles of Chemistry I (4)	
	TOTAL	18-19 sem. hrs.

Fitness Instruction/Personal Training Minor**Curriculum:**

Required Courses		20 sem. hrs.
HPE132	Health/Fitness Promotion in the Workplace (3)	
HPE222	Principles of Fitness Instruction (3)	
HPE265	Health Emergencies (3)	
HPE270	Sports Nutrition (3)	
HPE301	Applied Anatomy/Physiology in HPE II (3)	
HPE350	Exercise Physiology (3)	
<i>One of the following courses:</i>		
HPE215	Swimming/Tumbling/Adventure Activities (3)	
HPE314	Kinesiology (3)	
HPE450	Exercise Physiology II (3)	
	TOTAL	21 sem. hrs.

General Art**Prerequisites:**

None

Curriculum:

A. Required Courses		9 sem. hrs.
ART101	Design 2-D (3) or	
ART102	Design 3-D (3)	
ART106	Drawing I (3)	
ARHI323	Art of the 20th Century (3) or	
ARHI324	Art of the 19th Century (3)	
B. ART (Art) courses at the 200 level or higher with the exception of the following:		12 sem. hrs.
ART363	Film Aesthetics (3)	
ART364	Problems in Film (3)	
ART368	Documentary Film (3)	
ART369	Experimental Film (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)	
GEOG414	Remote Sensing (3)	
GEOG420	GIS Applications in Business and Planning (3)	
GEOG513	GIS II: Modeling (3)	
	TOTAL	18 sem. hrs.

Geography**Curriculum:**

A. Required Course		
GEOG101	World Geography	
B. Three systematic courses (9) and two regional courses(6) or three regional courses (9) and two systematic courses (6)		
Systematic Courses		
GEOG130	Cultural Geography	
GEOG145	Environmental Issues	
GEOG222	Climatology	
GEOG230	Societal Issues	
GEOG305	Cartography	
GEOG245	Conservation of Natural Resources	
GEOG300	Principles of Urban and Regional Planning	
GEOG320	Physical Geography	
GEOG332	Political Geography	
GEOG335	Urban Geography	

GEOG340	Economic Geography
GEOG350	Population Geography
GEOG411	Spatial Analysis
GEOG413	Geographic Information Systems
GEOG414	Remote Sensing
GEOG425	Geography of Water Resources
GEOG513	GIS Modeling
GEOG545	Environmental Planning
GEOG515	Biogeography
GEOG525	Forest Geography and Conservation

Regional Courses

GEOG260	Geography of U.S. and Canada
GEOG270	Geography of Europe
GEOG300	Geography of Asia*
GEOG365	Geography of Latin America*
GEOG375	Geography of the Middle East
GEOG380	Geography of Africa
May be used as systematic or regional depending upon topic.	
GEOG391	Field Geography
GEOG415	Seminar in Geography or
GEOG490	Independent Studies

TOTAL	18 sem. hrs.
-------	--------------

Geology**Prerequisites:**

None

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.

TOTAL	18 sem. hrs.
-------	--------------

German**Prerequisites:**

None

Curriculum:

Required Courses	18 sem. hrs.
GERM101	First Course German (3)
GERM102	Second Course German (3)*
GERM201	Third Course German (3)*
GERM202	Fourth Course German (3)*
Courses at the 300 or 400 level in the German Language	(6)

TOTAL	18 sem. hrs.
-------	--------------

* Students starting at levels 102, 201, or 202 must take additional German courses at the 300 or 400 level to satisfy the 18 semester hour requirement.

Gerontology

A focus in Gerontology (aging studies) is being offered at Edinboro University. Students interested in a program of study in Gerontology or in understanding the processes of aging will find a broad spectrum of course work at Edinboro and field experience available with many agencies in northwestern Pennsylvania who work with adult and older adult populations.

This program is designed to offer a student the opportunity to graduate with a major in any of several departments and a focus in gerontology.

The development of this focus has received strong support not only from the administration and the disciplines involved, but also from individuals and organizations that are potential employers of persons with this type of training. There is presently a national shortage of individuals equipped to work with geriatric and gerontology programs and surprisingly few colleges and universities are attempting to meet this need.

Students desiring to complete the Gerontology Focus and have it recorded on the official university transcript should contact Dr. Joyce Jagielo in the Psychology Department. An advisor will be appointed in the student's area of concentration and a program of study will be developed which will be sent to the committee on the Gerontology Focus for review and approval.

I. Courses included in the Core	18 sem. hrs.
PSYC319	Psychology of Adulthood and Aging (3)
BIOL304	Biology of Aging (3)
PHIL265	Death and Dying (3) or
NUHL500	End-of-Life Care
SOC370	Social Gerontology (3) or
ANTH501	Anthropology of Aging or
SOC390	Sociology of the Lifecycles
Field Experience in Aging (in student's major department)	(6)
II. Elective Courses	12 sem. hrs.
(To be taken from at least three departments)	
ANTH364	Culture, Illness and Curing (3)
ANTH501	Anthropology of Aging (3)**
BIOL646	Biological Aspects of Aging (3)
ENGL120	Medical Terminology (3)
Field experience over six hours - specify	
FIN360	Personal Financial Planning (3)*
FIN371	Seminar in Retirement Planning (1)*
FIN372	Seminar in Risk Management Planning (1)*
FIN373	Seminar in Estate Planning (1)*
GEOG350	Population Geography (3)
HPE265	Health Emergencies (3)
HPE355	Community Health Education (3)
HPE360	Adapted Physical Education (3)
NUHL100	Contemporary Women's Health (3)
NUHL500	End-of-Life Care (3)**
NUTR310	Nutrition (3)
NUTR400	Community Nutrition (4)
PHIL265	Death and Dying (3)**
PHIL342	Images of Humanity (3)
PHIL361	Ethics and Health (3)
POLI306	Public Administration I (3)
POLI307	Public Administration II (3)
POLI508/ECON508	Government Budgeting and Financing (3)
POLI510	Health Care Politics and Policy (3)
PSYC265	Psychology of Adjustment (3)
PSYC305	Human Sexuality (3)
PSYC365	Abnormal Psychology (3)
PSYC370	Psychology of Personality (3)
PSYC375	Intro to Psychological Assessment
PSYC390	Social Psychology (3)
SHLD220	Survey of Communication Disorders in Adults (3)
SOC310	Population and Ecology (3)
SOC370	Social Gerontology (3)**
SOC390	Sociology of the Lifecycles (3)**
SOWK390	Aging and Human Services (3)
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 Design**Prerequisites:**

Art Major

Curriculum:

A. Required Courses	18 sem. hrs.
ART101	Design 2-D (3)
ART256	Intro to Graphic Design (3)
ART358	Intro to Computer Software (3)
ART330	Graphic Design Studio Skills (3)
ART359	Principles of Typography (3)
ART464	Publication Design (3)
B. One of the following:	3 sem. hrs.
ART265	Survey of Graphic Design
ART469	Corporate Identity (3)
TOTAL	21 sem. hrs.

Health**Curriculum:**

Required Courses	9 sem. hrs.
HPE133	Personal Health I (3)
HPE364	Health Methodology (3)
HPE400	Critical Issues in Health (3)

Two of the following courses:

HPE132	Health and Fitness Promotion in the Workplace (3)
HPE320	Consumer Health (3)
HPE355	Community Health (3)

Two of the following courses:

HPE135	Drugs/Alcohol/Tobacco (3)
HPE245	Human Sexuality (3)
HPE265	Health Emergencies (3)

TOTAL 21 sem. hrs.

History

A minor in history (6 individually selected courses) is an excellent program to complement those majors which are directed toward specific technical skills. New careers continually are opening. A combination of history with other disciplines leads to expansion and diversification within a variety of careers which provides the graduate better opportunity for advancement within a profession and preparation for new careers as these arise.

Prerequisites:

None

Curriculum:

Eighteen semester hours of history courses of the student's choice 18 sem. hrs.

TOTAL 18 sem. hrs.

Introductory Applied Physics**Prerequisites:**

None

Curriculum:

A. Required Courses 12 sem. hrs.

PHYS201	Physics I (4)
PHYS202	Physics II (4)
PHYS312	Tech Electronics II (4)

B. Electives 6 sem. hrs.

Any two of the following courses may be selected to bring the minimum total number of hours in Physics to 17.

PHYS301	The Nature of Sound (3)
PHYS302	The Nature of Light and Color (3)
PHYS303	The Nature of Nuclear Energy (3)

TOTAL 18 sem. hrs.

Jewelry/Metalsmithing**Prerequisites:**

Art Major

Curriculum:

A. Required Courses: 18 sem. hrs.

ART101	Two Dimensional Design
ART102	Three Dimensional Design
ART211	Metals I
ART215	Metals II

B. Select two courses from the following:

ART319	Intermediate Metals
ART472	Advanced Metals
ART236	Wood Furniture
ART216	Ceramics I

Any ARHI (Art History) course 3 sem hrs.

TOTAL 21 sem. hrs.

Journalism

The minor in journalism provides students with a broad range of experiences in the basic elements of the craft. The program places students in practical work situations using campus media outlets; it provides classroom theory in reporting, make-up, graphics, editing, editorial page policy and ethics. Students will also take six hours in journalism electives.

Prerequisites:

ENGL101 or ENGL103 and ENGL102 or ENGL104

Curriculum:

A. Required Courses 15 sem. hrs.

JOUR216	Beginning Reporting (3)
JOUR316	Intermediate Reporting (3)
JOUR326	to Electronic Layout (3)

JOUR327	Editing for Publication (3)	
JOUR416	Advanced Reporting (3)	
B. Journalism Electives		6 sem. hrs.
(300-500 Level)		
TOTAL		21 sem. hrs.

Latin American Studies

Students will choose 6 courses from at least two different prefixes or choose 5 courses from at least two different prefixes and demonstrate proficiency in Spanish.

Prerequisites:

None

Curriculum:

A. Required Courses 18 sem. hrs.

GEOG365	Geography of Latin America and Caribbean (3)
HIST323	History of Latin America I (3)
HIST324	History of Latin America II (3)
HIST327	History of Mexico and Central America (3)
LAS200	Heritage and Culture of Puerto Ricans (3)
LAS204	US Interventions in Latin America (3)
LAS489	The Maya Experience (3)
LAS491	Gender, Language, and Culture Image of Mexico (3)
LAS495	Internship in LAS(3)
HIST329	US-Cuba Relations (3) or
POLI329	US-Cuba Relations (3)
POLI341	Government and Politics of Latin America (3)
POLI548	U.S.-Latin American Relations: Contemporary Problems (3)
SPAN100	Spanish Culture (3)
SPAN335	Latin American Civilization (3)
SPAN355	Survey of Latin American Literature I (3)
SPAN356	Survey of Latin American Literature II (3)
SPAN341	Mexico (3)

TOTAL 18 sem. hrs.

Manufacturing Engineering Technology**Prerequisites:**

None

Curriculum:

MFGT101	Manufacturing Process I	3 sem. hrs.
MFGT102	Manufacturing Process II	2 sem. hrs.
MFGT110	Technical Drawing I	3 sem. hrs.
MFGT111	Technical Drawing II	3 sem. hrs.
MFGT302	Computer Aided Drafting I	3 sem. hrs.
MFGT320	Cost Estimating	3 sem. hrs.
MFGT225	Statics and Strength of Materials or	
MFGT370	Motion and Time Study	3 sem. hrs.

TOTAL 20 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 mathematics course numbered 209 or above.

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 209 or above, in place of each exempted course.

Music**Prerequisites:**

None

Curriculum:

- A. Theory
MUSC201 Fundamentals of Music
[or MUSC121 Music Theory I
(has a prerequisite)] 3 sem. hrs.
- B. Performance
1. Applied Music MUSC130, MUSC131 2 sem. hrs.
Contact the Music Department concerning enrollment in Applied Music
2. Ensembles 4 sem. hrs.
Any ensemble MUSC051 through MUSC073. Ensembles may be repeated for credit.
- C. History/Literature 6 sem. hrs.
MUSC103 Introduction to Music, MUSC211 World Music,
MUSC240 Music of Broadway, MUSC250 Music History I,
MUSC251 Music History II, MUSC343 Evolution of Jazz,
MUSC344 American Music
- D. Electives 3 sem. hrs.
Any MUSC course or combination of courses
- TOTAL 18 sem. hrs.

Oceanography**Prerequisites:**

None

Curriculum:

- A. Required Courses 6 sem. hrs.
GEOS310 Intro to Oceanography (3)
GEOS320 Meteorology I (3)
- B. Other approved field-based courses in oceanography (e.g. summer courses taken at the Wallops Island, Virginia, Marine Science Consortium's Field Station) 9 sem. hrs.
- TOTAL 15 sem. hrs.

Painting**Prerequisites:**

Art Major

Curriculum:

- A. Required Courses 9 sem. hrs.
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)
Choose one three credit course below: (3)
any Drawing course 300 level or above
any Painting course 300 level or above
Printmaking I
- TOTAL 21 sem. hrs.

Philosophy**Prerequisites:**

None

Curriculum:

- A. Required Courses 18 sem. hrs.
1. PHIL327 Beginning Logic **or**
PHIL420 Logic (3)
2. PHIL300 Ancient Philosophy **or**
PHIL302 Modern Philosophy (3)
3. PHIL340 Ethics **or**
PHIL342, PHIL344, PHIL345, PHIL346 (3)
4. PHIL410 Metaphysics **or**
PHIL411 Theory of Knowledge **or**
PHIL425 Philosophy of Science (3)
5. Electives in Philosophy (6)
- TOTAL 18 sem. hrs.

Photography**Prerequisites:**

Art Major

Curriculum:

- A. Select a combination of 15 credits from the following: 15 sem. hrs.
ART251 Photography I (3)
ART252 Photography II (3)
ART351 Intermediate Photography I (3)
ART352 Intermediate Photography II (3)
ART451 Advanced Photography I (3)
ART452 Advanced Photography II (3)
- B. Any ART (Art) or ARHI (Art History) course(s) with the exception of ART100 Intro to Art. 6 sem. hrs.
- TOTAL 21 sem. hrs.

Physics**Prerequisites:**

- MATH211 Analytic Geometry and Calculus I (4)
MATH212 Analytic Geometry and Calculus II (4)
PHYS150 Physics Orientation (3)

Curriculum:

- Required Courses 13 sem. hrs.
PHYS320 University Physics I (4)
PHYS321 University Physics II (4)
PHYS325 Introduction to Modern Physics (3)
PHYS322 Physical Measurements Lab I (1)
PHYS323 Physical Measurements Lab II (1)
- TOTAL 13 sem. hrs.

Political Science**Prerequisites:**

None

Curriculum:

- A. Required Courses 6 sem. hrs.
POLI200 Introduction to Government (3)
POLI201 American Government (3)
- B. Political Science Electives 12 sem. hrs.
- TOTAL 18 sem. hrs.

Printmaking**Prerequisites:**

Art Major

Curriculum:

- A. Required Courses 12 sem. hrs.
ART101 Design 2-D (3)
ART106 Drawing I (3)
ART221 Printmaking I (3)
ART325 Intermediate Printmaking (3)
- B. Elective Courses 6 sem. hrs.
1. Select 1 of the following courses:
ART322 Lithography (3)
ART323 Intaglio (3)
ART324 Relief (3)
ART321 Screen Print (3)
ART329 Photo-lithography (3)
2. Additional Courses
Select any two courses from the following list:
ART321 Screen Print (3)*
ART322 Lithography (3)*
ART323 Intaglio (3)*
ART324 Relief (3)*
ART329 Photo-lithography (3)*
ART425 Advanced Printmaking (3)*
ART107 Drawing II (3)
ART307 Intermediate Drawing (3)*
ART231 Painting (3)
ART251 Photography 1 (3)*
ART355 Intro to Digital Photography (3)
ART256 Intro to Graphic Design (3)
ART268 Beginning Animation (3)
ARHI333 Art of the 18th Century (3)
ARHI324 Art of the 19th Century (3)
ARHI323 Art of the 20th Century (3)
*Recommended

TOTAL 21 sem. hrs.

Psychology**Prerequisites:**

None

Curriculum:

Choose any six (6) psychology courses (PSYC only) to total 18 semester hours. General Psychology (PSYC101) is a prerequisite for all psychology courses and is included in the 18 semester hours requirement. Please refer to the course descriptions section in this catalog for other course prerequisites.

TOTAL 18 sem. hrs.

Religious Studies**Prerequisites:**

SOC100 Principles of Sociology, SOC343 Sociology of Religion.

Curriculum:

A. Required Courses		12 sem. hrs.
PHIL350	Philosophy of Religion (3)	
ENGL325	Literature of the Bible I (3) or	
ENGL326	Literature of the Bible II (3)	
HIST334	History of Christianity (3)	
SOC343	Sociology of Religion (3)	
B. Electives		6 sem. hrs.
Two courses from the following:		
ARHI140	Medieval Art	
ARHI423	Art of Far East	
ARHI422	Art of India	
ARHI424	Tribal Arts of Africa	
ENGL350	Chaucer	
ENGL351	Medieval Literature	
ENGL388	Mythology	
ENGL397.731	Christian Literature	
HIST332	History of Europe from the Fall of Rome to the Renaissance	
HIST533	History of the Renaissance, Reformation and Early Modern Europe	
PHIL251	World Religions	
TOTAL		18 sem. hrs.

Russian**Prerequisites:**

None

Curriculum:

Required Courses		18 sem. hrs.
RUSS101	First Course Russian (3)	
RUSS102	Second Course Russian (3)*	
RUSS201	Third Course Russian (3)*	
RUSS202	Fourth Course Russian (3)*	
Courses at the 300 or 400 level in the Russian Language (6)		
TOTAL		18 sem. hrs.

* Students starting at levels 102, 201, or 202 must take additional Russian Courses at the 300 or 400 level to satisfy the 18 semester hour requirement.

Sculpture**Prerequisites:**

Art Major

Curriculum:

A. Required Courses		18 sem hrs.
ART102	Design 3-D (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)		
C. Select 3 credits from the following:		3 sem. hrs
ART216	Ceramics (3)	
ART221	Metals (3)	
ART236	Wood Furniture (3)	
ART241	Weaving and Fibers 1 (3)	
Any 300 level Sculpture Course (3)		
TOTAL		21 sem. hrs.

Sociology**Prerequisites:**

None

Curriculum:

Any Sociology courses of the student's choice to total	18 sem. hrs.
TOTAL	18 sem. hrs.

Spanish**Prerequisites:**

None

Curriculum:

Required Courses		18 sem. hrs.
SPAN101	First Course Spanish (3)	
SPAN102	Second Course Spanish (3)*	
SPAN201	Third Course Spanish (3)*	
SPAN202	Fourth Course Spanish (3)*	
Courses at the 300 or 400 level in the Spanish language.		
TOTAL		18 sem. hrs.

* Students starting at levels 102, 201, or 202 must take additional Spanish courses at the 300 or 400 level to satisfy the 18 semester hour requirement.

Special Education**Prerequisites:**

PSYC101 General Psychology

Curriculum:

A. Required Courses		9 sem. hrs.
SPED215	Psychology of Exceptional Children (3)	
SPED295	Prefield Survey in Exceptionalities (3)	
SPED230	Behavior Disorders in Childhood (3)	
B. Electives		9 sem. hrs.
Three special education electives to be selected from the following:		
SPED309	Principles of Behavior Management (3)	
SPED400	Low Incidence Disabilities (3)	
SPED460	Young Children with Disabilities (3)	
SPED480	Learning Disabilities (3)	
TOTAL		18 sem. hrs.

Speech Communication**Prerequisites:**

None

Curriculum:

A. Required Courses		15 sem. hrs.
COMM107	Public Speaking (3)	
COMM150	Introduction to Communication (3)	
JOUR364	Introduction to Mass Media (3)	
COMM416	Persuasion (3)	
COMM125	Psychology of Communication (3)	
B. Electives		3 sem. hrs.
(Any COMM or JOUR elective)		
TOTAL		18 sem. hrs.

Theatre Arts**Prerequisites:**

Students who elect to minor in Theatre Arts are expected to contribute in some way to dramatic productions produced by the department.

Curriculum:

A. Required Courses		9 sem. hrs.
THEA218	Intro to the Theatre (3)	
THEA203	Fundamentals of Acting (3)	
THEA311	Stagecraft I (3)	
B. THEA Electives		9 sem. hrs.
TOTAL		18 sem. hrs.

Women's Studies**Prerequisites:**

None

Curriculum:

A. Required Course		3 sem. hrs.
WMST204	Introduction to Women's Studies	
B. At least five courses to be selected from:		15 sem. hrs.
ARHI541	History of Women in Art	
BIOL304	Biology of Aging	
BIOL306	Introduction to Human Genetics	
COMM220	Intercultural Communications	
COMM325	Interpersonal Communications	
COMM520	Introduction to Gender and Communications	
COMM680	Gender and Communications	
ENGL213	The Language of the Goddess	
ENGL365	Images of Women in Literature	
ENGL420	Feminist Literary Criticism	
HIST313	History of Witchcraft	
HIST314	History of Women in Europe	
HIST315	History of Women in the U.S.	
HIST316	History of Women in Global Societies	
HIST372	History of American Violence	
HIST415	History of African-American Women	
HIST515	History of Feminism in Action	
HPE112	Women's Wellness/Weight Training	
MUSC247	Music, Gender and Identity	
PHIL364	Sexual Love and Western Morality	
PSYC305	Psychology of Human Sexuality	
PSYC319	Psychology of Adulthood and Aging	
PSYC377	Psychology of the Family	
SOC340	Sociology of Marriage and the Family	
SOC364	Race and Ethnic Relations	
SPAN353	Modern Latin American Literature in Translation	
SOWK215	Human Diversity	
WMST360	Philosophy and Feminism	

TOTAL 18 sem. hrs.

Wood/Furniture Design**Prerequisites**

Art Major

Curriculum:

A. Required courses:		15 sem. hrs.
ART101	Two Dimensional Design (3)	
ART102	Three Dimensional Design (3)	
ART236	Wood/Furniture I (3)	
ART237	Wood/Furniture II (3)	
ART338	Intermediate Wood/Furniture (3)	
B. Select two courses from the following:		6 sem. hrs.
ART211	Metals I (3)	
ART216	Ceramics I (3)	
Any ARHI (Art History) course (3)		

TOTAL 21 sem. hrs.

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.

School of Liberal Arts:

Department of Philosophy
Associate of Arts Degree – Liberal Studies
Department of Political Science and Criminal Justice
Associate of Arts Degree – Criminal Justice
Department of Sociology
Associate of Arts Degree – Human Services S.S.

School of Science, Management and Technology:

Department of Business and Economics
Associate of Science Degree – Business Administration
Department of Mathematics and Computer Science
Associate of Science Degree – Computer Science
Department of Physics and Technology
Associate of Engineering Technology Degree – Manufacturing Engineering Technology

School of Education:

Department of Early Childhood and Special Education
Associate of Science Degree – Preschool Education
Associate of Arts Degree – Human Services D.D.S.

The Harrisburg Internship Semester (THIS)

The Dixon University Center of the State System of Higher Education (SSHE) in Harrisburg, will sponsor, each semester during the academic year, a student internship program for one outstanding undergraduate student from each of the fourteen state system universities.

The major purposes of the internship program are to provide students with an important practical experience and an enriching academic experience. Students will be placed in offices where they will participate directly in public policy formulation.

The internship experience will be structured in the following way:

- I. Internship (nine credit hours)
This is the practical component of the internship experience, which includes the day-to-day work experience in a government position.
- II. Intern Project (three credit hours)
One of the many advantages of studying in Harrisburg is the opportunity to develop direct knowledge of state politics and public policy development. The intern project component of the THIS program serves three purposes. First, it encourages students to focus their attention on a particular aspect of state government politics and policymaking. Second, the requirement affords the student an opportunity to develop an in-depth knowledge about that subject. Third, it gives the students the opportunity to develop skills in public research and the preparation of formal oral presentations.
- III. Seminar on Public Policymaking (three credit hours)
The seminar will meet one night per week at the Dixon University Center in Harrisburg. This seminar will explore policy making within the Harrisburg community by looking carefully at both the institutions which shape the state's political life and those individuals who play a major role in influencing institutional behavior. The seminar will serve a two-fold purpose: first, to introduce the student to concepts which will help them understand the political environment in which they will be working on a daily basis; second, to provide a focal point for integrating their various learning experiences in Harrisburg.

Prospective student interns will be chosen by the THIS Selection Committee as a recommendation to the President. The President will make the final selection. The student intern must, at the time of appointment, have maintained at least a 3.25 grade point average in 45 earned undergraduate credit hours. A student may be chosen from any academic major.

F



*Course
Descriptions*

Course Descriptions

Special Course Numbers

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.

Special Courses

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.

HBIN496 THE HARRISBURG INTERNSHIP SEMESTER 15 sem. hrs.

The Harrisburg Internship Semester (THIS) is a 16-week internship in Harrisburg sponsored by the State System of Higher Education. One exceptional student from each SSHE University will be selected each semester to work with legislators and senior executives in state government on projects appropriate to the student's areas of interest. The internship will provide 15 semester hours of academic credit, consisting of a nine hour internship, a three-hour seminar, and a three-hour independent project.

SPST395 INTERNSHIP IN INDIVIDUALIZED STUDIES 3-15 sem. hrs.

This course allows the student majoring in Specialized Studies to gain experience in his or her chosen profession. The nature of the experience and the time spent determine the amount of credit earned. Prerequisite: at least 64 hours of college credit.

ART DEPARTMENT

Art Education Courses

ARED305 FIELD EXPERIENCE I 3 sem. hrs.

This course provides art teacher education majors with an overview of the professional field with emphasis on rationales for teaching art and contemporary art teaching practices. Students in the course observe in schools and reflect on their own art learning experiences to explore the teaching profession and personal growth. Prerequisite: Teacher Candidacy. Co-requisite: ARED314.

ARED310 INTRODUCTION TO ART THERAPY 3 sem. hrs.

This course provides an introduction to the definitions, historical roots, theoretical underpinnings, and basic elements of the field of Art Therapy. Course topics will include an examination of the major contributors to the field, what Art Therapists do, where Art Therapists work, how art-making can be used to affect behavioral, and emotional changes.

ARED314 INTRODUCTION TO ART EDUCATION 3 sem. hrs.

This course provides art education majors with professional theories and practices at an introductory level. It focuses on art teaching strategies and art unit development that include Pennsylvania and National Art Education Standards, motivation, assessment strategies, professional art classroom management, and preparation for art materials. In addition, this course emphasizes technology issues in art education and museum and community collaboration with public school. Pre-requisite: Teacher Candidacy. Co-requisite: ARED305.

ARED315 CURRICULUM DEVELOPMENT IN ART EDUCATION 3 sem. hrs.

This course reviews and introduces the elements needed to create an art education curriculum including art education history, artistic development theories, special needs adaptations, art education assessment techniques, design fields, and philosophy. Preparation for working in the art classroom is covered with topics on classroom management and

discipline, art classroom design, and field experience in the art museum. Prerequisite: ARED305 and ARED314. Co-requisite: ARED383.

ARED320 ART OF THE YOUNG CHILD 3 sem. hrs.

A study of the background, development stages, creativeness and motivation necessary to teach art to young children. Studio practice in art activities that can be adapted to children will be an important part of the course.

ARED383 TECHNOLOGY PORTFOLIO IN ART EDUCATION 3sem. hrs.

This course provides students with methods and means for using instructional technology to solve teaching-learning problems in art education. It also enables students to develop their own electronic teaching portfolio as an on-going, working portfolio, and /or employment portfolio to prepare for future job interviews. Pre-requisite: ARED305 and ARED314. Co-requisite: ARED315.

ARED425 ART EDUCATION FOR SPECIAL POPULATIONS 3 sem hrs.

The general objective for methods in art are reviewed and studied in relation to the needs of special education students in order to gain insight into how best to have meaningful activities in art for various types of exceptional children.

ARED475 FIELD EXPERIENCE II 3 sem. hrs.

This course provides the art major with a variety of activities and experiences with special needs students and ELL students in the setting of an actual school art program. The student serves in the capacity of an art teacher collaborator, observing, preparing, and delivering instruction in a supervised pre-student teaching field experience. Prerequisites: ARED315 and ARED383. Co-requisite: ARED425.

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.

ARED496 ART EDUCATION INTERNSHIP 12 sem hrs.

This course is a culminating experience for art education majors who are not seeking teacher certification. It is an alternative to student teaching for students interested in career experience in fields

such as arts administration, art therapy, and museum education. Students must apply for a placement in the field. Prerequisite: ARED475.

ARE519 ARTS AND CRAFTS FOR EXCEPTIONAL CHILDREN 3 sem. hrs.

The general objectives for methods in art are reviewed and studied in relation to the needs of special education students in order to gain insight into how best to have meaningful activities in art for the various types of exceptional children. (The Special Education Department is frequently consulted in order that the course might best accomplish its purpose.)

ARE650 STRATEGIES FOR ART TEACHERS 3 sem. hrs.

This is a seminar course devoted to a specific, current issue in teaching and learning as that issue relates to art education; this course requires each student to undertake an in-depth study and research of that issue in light of its practical application to his/her own art teaching situation or context.

Art History Courses

ARHI105 OVERVIEW OF WESTERN ART HISTORY 3 sem. hrs.

This course is an introduction and general survey of art and artists from Pre-historic times through the 20th century. Students will examine major periods and styles which have contributed to Western art through the use of slides, videos and films in coordination with the lectures. This course is approved for General Education – Core 1.

ARHI207 OVERVIEW OF NON-WESTERN ART HISTORY 3 sem. hrs.

This course introduces students to non-western artistic cultures: Islam, India, China, Japan, and Sub-Saharan Africa. Each culture will be examined with an emphasis on major works of architecture, painting, sculpture, and the applied arts. Important historical, religious, and intercultural developments will illustrate strong artistic connections between these cultures and Western Art. This course is approved for General Education – Core 1.

ARHI220 INTRODUCTION TO FILM AND VIDEO ART 3 sem. hrs.

This course introduces film and video art as art media. Students will be provided with an historical overview from the beginning of film (c. 1885) and artists' video (c. 1963) to the present. The course will focus on the approaches to technical and aesthetic elements that have contributed to transforming craft into art. This course is approved for General Education – Distribution 1.

ARHI322 HISTORY OF MODERN ARCHITECTURE (GROUP I) 3 sem. hrs.

A survey of stylistic developments in 20th century architecture.

ARHI323 ART OF THE 20TH CENTURY (GROUP I) 3 sem. hrs.

A survey of painting and sculpture from 1900 with special emphasis given to the development of art styles. The purpose of this course is to provide an overview of significant artists and art movements of the twentieth century.

ARHI324 THE ART OF THE 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.

ARHI330 THE ART AND ARCHITECTURE OF LATIN AMERICAN 3 sem. hrs.

This course surveys the art and architecture of Latin America from the colonial period to the contemporary era. It specifically emphasizes the historical chronology, cultural context and stylistic developments in painting, sculpture, architecture and other art forms in a range of Latin American countries. Special attention is given to the major artists and art movements, as well as the social, political and economic events that have shaped and influenced Latin American art and architecture. General Education – Distribution 1.

ARHI331 BAROQUE ART OF THE 17TH CENTURY (GROUP II) 3 sem. hrs.

A survey of the art and architecture of the 17th century in Western Europe and the Americas stressing major art styles and figures of the period.

ARHI332 THE ART OF THE RENAISSANCE (GROUP II) 3 sem. hrs.

A selective survey of the art and architecture produced in Western Europe countries between 1400 and 1600, with emphasis on Italy and Flanders.

ARHI333 THE ART OF THE 18TH CENTURY (GROUP II) 3 sem. hrs.

A survey of the art and architecture of the 18th century in Western Europe with special attention given to the Rococo style and the early beginnings of Romantic and Neo-Classical Art.

ARHI335 HISTORY OF ADVERTISING 3 sem. hrs.

This course is a survey of advertising from ancient times through the English language influence of the 17th century and the fast pace of the 18th and 19th centuries in Britain and America to the 20th century. Students will focus on 20th century advertising particularly American classics, "subliminal" techniques, and radio and television ad types and techniques, ratings, and classic/award-winning examples. This course is approved for General Education – Distribution 1.

ARHI341 CLASSICAL ART (GROUP III) 3 sem. hrs.

A historical survey of the art and architecture of the ancient civilizations of Greece and Rome. This course will familiarize the student with how, devel-

oping from earlier cultures, the Greeks and Romans created an artistic and engineering vocabulary of such a refinement and practicality that is still in use today.

ARHI342 THE ART OF ANCIENT CIVILIZATIONS (GROUP III) 3 sem. hrs.

A survey of the art and architecture of the ancient Near East: Egypt from earliest times to the Roman Era, the Hittite Empire, Mesopotamia from Sumeria to the late Persian Era, the ancient Aegean cultures, and the Etruscans. This course will give the student an understanding of artistic development in the first true civilizations in the West, and how this art reflected and enhanced these cultures.

ARHI344 MEDIEVAL ART (GROUP III) 3 sem. hrs.

A selective survey of the art and architecture produced in the Western world during the Middle Ages focusing upon the Early Christian, Byzantine, Romanesque and Gothic styles.

ARHI420 HISTORY OF AMERICAN ART I (GROUP IV) 3 sem. hrs.

A survey of American art and architecture from Colonial times to 1850.

ARHI421 HISTORY OF AMERICAN ART II (GROUP IV) 3 sem. hrs.

A survey of American art and architecture concentrating on the period from the Civil War to World War II.

ARHI423 THE ART OF THE FAR EAST (GROUP IV) 3 sem. hrs.

A historical survey of the art and architecture of the civilizations of the Far East stretching to those of China, Japan, and others. Special emphasis is placed upon the selected periods of Chinese and Japanese art and architecture relative to their aesthetics and philosophies.

ARHI425 PRE-COLUMBIAN ART OF THE AMERICAS (GROUP IV) 3 sem. hrs.

A historical survey of the art and architecture of the ancient civilizations of the Americas focusing upon those of the Incas, Mayans, and Aztecs. This course will provide a general survey of the arts and crafts of these three cultures, with historical events emphasized as catalysts in stylistic change and development.

ARHI430 INTRODUCTION TO ART CRITICISM 3 sem. hrs.

An introductory course in art criticism concerned with problems which arise in connection with the judgement and evaluation of art works by the critic; an examination of the language used to speak and write about works of art; a study of post-Hegelian schools of criticism.

ARHI440 ART HISTORY SEMINAR 3 sem. hrs.

Several seminars in Art History are available. Each seminar involves an in-depth study of a specialized area. The purpose of the seminar is to allow capable students an opportunity to experience a specific aspect or period of art history with greater intensity than in a survey course.

ARHI525 NEW MEDIA IN ART 3 sem. hrs.

This course provides an introduction to the definitions, historical roots, theoretical underpinnings, and basic elements of the field of Art Therapy. Course topics will include an examination of the major contributors to the field, what Art Therapists do, where Art Therapists work, how art-making can be used to affect behavioral, and emotional changes.

ARHI531 ART AND SOCIETY 3 sem. hrs.

The course is designed to encourage students to understand the interaction between art and society. Among topics to be discussed are the social meaning of art, institutionalization of art, art market politics, social position of the artist, social structure and style changes, art and mass culture, music and film as purveyors of social change.

ARHI533 TWENTIETH CENTURY AESTHETICS () 3 sem. hrs.**

This course provides an investigation of new directions in twentieth century aesthetics and how they relate to the artist, the art objective/event, and the spectator. Questions will be raised concerning aesthetics and language, changing views on art and emotion, organic unity, and aesthetic value where art is seen as autonomous and as a self-rewarding activity.

ARHI534 ART CRITICISM IN THE TWENTIETH CENTURY () 3 sem. hrs.**

This course provides a study of theories and schools of art criticism which have emerged during the twentieth century. Theories include Formalism and Structuralism in addition to Psychoanalytic, Marxist, and Semiotic approaches.

ARHI535 ART IN REVOLUTION 3 sem. hrs.

An overview of the most important "anti-establishment" artistic movements of the late 18th and the 19th centuries. Romanticism, the Pre-Raphaelites, Impressionism, Post Impressionism and Symbolism will be contrasted with Neo-Classicism and the Academism with a view to clarify the formal, social, and political liberation of the artist in our own time.

ARHI536 THE ART AND ARCHITECTURE OF ENGLAND 3 sem. hrs.

This course surveys painting, sculpture and architecture of Great Britain from the Neolithic period through the nineteenth century. It emphasizes historical context, stylistic development, and the evolution of aesthetic criticism. Prerequisite: permission of the instructor. This course is approved for General Education - Distribution 1.

ARHI537 ART OF INDIA 3 sem. hrs.

The course acquaints students with the history of the art and architecture of India from prehistoric through modern times. It specifically emphasizes the chronological development of artistic styles relative to Indian religion, society, and aesthetics. Prerequisite: **ARHI107**.

ARHI540 EXPERIMENTAL FILM, THE VISUAL ARTS AND CONTEMPORARY THEORY 3 sem. hrs.

This course will explore films whose form and content overlap with concerns explored by visual artists. The relationship between particular films and contemporary art and film theory will also be discussed. Examples of animation and video will also be included.

ARHI541 THE HISTORY OF WOMEN IN ART 3 sem. hrs.

This course surveys the history of women in the visual arts. The course recognizes linkages between the artists and their male peers, and considers the influences of culture on their work. Students become acquainted with significant women whose activities as patrons, curators, or collectors also impacted the history of art.

ARHI550 TOPICS IN AMERICAN ART 3 sem. hr.

This is essentially a course in which students select an aspect of American art history for their own individual investigation. The entire range of American Art - painting, sculpture, crafts, photography, and architecture - is open to student inquiry. Class meetings will involve discussion of individual investigations. Oral communication and written papers will be bases for student evaluation.

ARHI552 ART OF THE PHARAOHS 3 sem. hrs.

This course is designed to familiarize the student with the development of the art in ancient Egypt, beginning with prehistoric Egypt, and concluding with Coptic Art. Sculpture, architecture and painting, jewelry and other crafts will be seen both as art and as reflections of the politico-religious eras that produced them. The modern re-discovery of Egypt by the West, and the growth of Egyptology will also be discussed. Prerequisite: **ARHI105**.

ARHI556 HISTORY OF EARLY 20TH CENTURY ART 3 sem. hrs.

This course surveys important historical trailmarks of 19th century art and tradition-breaking and controversial developments in painting and sculpture during the first half of the 20th century, the original era of modern art. The students will focus on the major art styles, movements, and artists in Europe and the strong contributions of the United States and Russia. This course is approved for General Education - Distribution 1.

ARHI557 LATE 20TH CENTURY ART 3 sem. hrs.

A survey of painting and sculpture from C. 1945 to the present. Attention is given to selected art styles and individual artists and to the theoretical basis of twentieth century art. Particular emphasis is placed on developments in the United States.

ARHI558 CONTEMPORARY ART 3 sem. hrs.

This course examines the history of the visual arts from 1980 to the present. It addresses the rise of postmodernism, internationalism, and the role technology plays in the evolution of new art forms.

ARHI560 HISTORY OF PHOTOGRAPHY 3 sem. hrs.

This course surveys important historical developments in 19th and 20th century photography and tradition-making developments of the 19th century, as well as tradition-breaking developments of the 20th century. It covers major movements in photography and the linkages between photography and other art styles of the 19th and 20th centuries. It also considers influences of history and culture. Prerequisite: **ARHI105**.

ARHI570 WORKSHOP IN THE SOURCES OF IMAGERY 3 sem. hrs.

This course acquaints students with the major sources of imagery identifiable in painting, sculpture, prints, and the decorative arts, from antiquity through the twentieth century. It emphasizes the differing pictorial ideas, devices, and conventions invented by both western and non-western artists to express specific types of iconography. Prerequisite: **ARHI105**

ARHI571 HISTORY OF WESTERN SCULPTURE 3 sem. hrs.

This course acquaints students with sculptural techniques and practices. It emphasizes stylistic evolution, formal analysis, and iconography, while stressing the innovative contributions of specific artists who altered the course of historical development. Prerequisite: **ARHI105**.

ART COURSES**Basic Art Courses****ART101 TWO-DIMENSIONAL DESIGN 3 sem. hrs.**

A course dealing with basic aspects of pictorial form. Two-Dimensional Design provides the student with a visual language for developing works of art. Problems challenge the student to deal imaginatively with the visual elements. Slides, books, and other aids are used to give the student historical information and offer insight into various problem-solving possibilities.

ART102 THREE-DIMENSIONAL DESIGN 3 sem. hrs.

This course is planned to introduce the student to concepts and basic principles of designing in space and to develop his awareness of the problems and sensitivity to designing with materials.

ART103 FOUR-DIMENSIONAL DESIGN 1.5 sem. hrs.

This course introduces concepts and basic principles of designing in time and develops an awareness of time-based problems and a sensitivity to the tools of time-based media, including video editing software.

ART105 COLOR 1.5 sem. hrs.

This course presents students with a foundational overview of color for the visual artist. Basic color theory will be addressed, as will the applications of color across a variety of traditional and digital mediums.

ART502 BOOK ARTS 3 sem. hrs.

This course introduces the book arts as a medium of creative expression. As such, the course will explore the book design and creation for a variety of traditional and non-traditional applications.

ART508 ART STUDY-TRAVEL WORKSHOP 3 or 6 sem. hrs.

In this study/travel experience students and the professor travel to various centers of culture to study and experience at first hand the art and architecture of the culture. Prerequisites will depend upon the subject of the specific workshop.

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.

Studies in Ceramics

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.

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.

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.

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.

ART580 INTERNSHIP IN CERAMICS 6-15 sem. hrs.

See catalog description of **ART580 Internship – BFA**.

Studies in Cinema

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. Prerequisite: **ART106**.

ART267 FILM AND VIDEO PRODUCTION I 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 includes individual experiences in film, video and computer art production. This course is approved for General Education – Computer Competency.

ART268 BEGINNING ANIMATION 3 sem. hrs.

This introductory production course in basic animation techniques includes a historical overview related to current animation trends in education, industry, entertainment and independent/experimental production. It requires practical aesthetic and technical experiences in camerless, three-dimensional, two-dimensional, and computer animation production. This course is approved for General Education – Computer Competency.

ART348 COMPUTER ANIMATION II 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**.

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**.

ART363 FILM AESTHETICS 3 sem. hrs.

A concentrated course in film history. Exploration of the aesthetics of film as an art medium. The course explores the inter-relationship of acting, directing,

music, etc. to film form. Through discussions and viewing of films, the course seeks to evolve a set of theories or relationships of content to form.

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**.

ART368 DOCUMENTARY FILM 3 sem. hrs.

A concentrated course in film history designed to provide an overview of the history and aesthetics of the documentary film. The purpose of this class 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.

ART369 EXPERIMENTAL FILM 3 sem. hrs.

A concentrated course in the history of experimental film. A seminar type course designed to explore the underground film as an important part of modern art history, as well as suggest its own unique aesthetics and conventions. 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 this film genre as a viable contemporary artistic medium.

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**.

ART462 COMPUTER ANIMATION IV 3 - 6sem. 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, 6, 9, or 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**.

ART580 INTERNSHIP IN CINEMA 6-15 sem. hrs.

See catalog description **ART580 Internship – BFA**.

Studies in Graphic Design

ART256 INTRODUCTION TO GRAPHIC DESIGN 3 sem. hrs.

This course introduces graphic design and emphasizes an overview of design theory, typographic principles, design procedure, integration of type and image, and basic studio skills. Projects will stimulate the application of creative thinking to solving two-dimensional graphic design problems.

ART265 SURVEY OF GRAPHIC DESIGN HISTORY, THEORY, AND CRITICISM 3 sem. hrs.

This course surveys graphic design history, theory, and criticism. It provides an understanding of contemporary issues in design, discusses important historical movements, and culminates with debates regarding the future of the field.

ART303 INTRODUCTION TO ILLUSTRATION 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, ART106, ART107**.

ART330 GRAPHIC DESIGN STUDIO SKILLS 3 sem. hrs.

This course develops students' aesthetic awareness and production skills in graphic design. Projects expand the design capabilities and develop students' professional attitudes and practical knowledge of studio procedures and the printing process. Prerequisites: **ART358**. Students may not receive credit for both this course and **ART355**.

ART340 INTRODUCTION TO GRAPHIC DESIGN IN THE NEW MEDIA 3 sem. hrs.

This course introduces the basic tools for New Media. Instruction begins with basic information about the world wide web and progresses through more complex examples of web design and multimedia. Projects emphasize technical applications and creative thinking. This course culminates in the creation of functional web designs and multimedia. Prerequisite: **ART358**.

ART358 INTRODUCTION TO COMPUTER GRAPHICS SOFTWARE 3 sem. hrs.

This course introduces the computer for solving problems in graphic design. Projects emphasize technical application and creative thinking as applied to solving two dimensional graphic design problems. Prerequisite: **ART256**. This course is approved for General Education - Computer Competency.

ART359 PRINCIPLES OF TYPOGRAPHY 3 sem. hrs.

This course provides students with in-depth study of typographic theories and practical applications through lecture, demonstration, studio experience, and critiques. Projects encourage the development of problem-solving abilities, as well as the understanding of typographic methodologies. It emphasizes conceptual and compositional use of type, establishing effective hierarchies, balancing and integrating type and image, experimentation and expression in contemporary typographic theory, and alternative methods for generating ideas typographically. Prerequisites: **ART330**. May not take both **ART355** and **ART359**.

ART360 GRAPHIC DESIGN: MOVEMENTS AND INFLUENCES 3 sem. hrs.

This course introduces the history of graphic design, with emphasis upon design in the 20th century. Slide lectures, reading, discussion, and a variety of studio problems explore the movements and influences responsible for shaping the character of contemporary design. The course also explores the impact of concurrent movements in painting, architecture, and other disciplines upon graphic design, as well as the influence of high and low culture, and the genesis of postmodern design. Prerequisite: **ART359**.

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 advertising illustration. Prerequisite: **ART303**.

ART464 PUBLICATION DESIGN 3 sem. hrs.

This course implements theory and practice of publication design through in-depth projects aimed at building students' portfolios. It emphasizes design procedures, and the preparation of mechanicals for printing through industrial and consumer design projects and develops students' awareness of the designer/client relationship. Prerequisites: **ART359**.

ART465 SENIOR PROJECTS IN GRAPHIC DESIGN 3 sem. hrs.

This course is designed to be a culminating experience intended for Graphic Design majors. The student will develop an extensive design project, present a complete professional portfolio and produce a supporting self-promotional piece that meets or exceeds faculty expectations. The senior project, portfolio and self-promotion will be reviewed by a panel of faculty and regional professionals. Prerequisites: **ART360, ART464, ART469**.

ART468 GRAPHIC DESIGN PRACTICUM 3-6-9-12 sem. hrs.

In this course, advanced students work in the environment of the professional design studio with actual clients to develop corporate identity, systems, and collateral print material. Comprehensive projects on campus include client needs assessment and planning, creating project budgets, acquiring bids, writing specifications, and working with printers. Prerequisite: **ART359**.

ART469 CORPORATE IDENTITY 3 sem. hrs.

Students explore industrial and/or consumer needs related to advertising and design. This course expands the student's knowledge and understanding of the designing and printing processes. Projects include logo design, corporate identity, corporate identity manual, brochure, magazine ad, outdoor board, packaging, and trade show exhibit. Prerequisite: **ART359**.

ART580 INTERNSHIP IN COMMUNICATIONS GRAPHICS 6-15 sem. hrs.

See catalog description **ART580 Internship – BFA**.

Studies in Drawing

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**.

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**.

ART310 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**.

ART372 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.

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 lifesize 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.

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: **ART409**.

ART580 INTERNSHIP IN DRAWING 6-15 sem. hrs.

See catalog description of **ART580 Internship – BFA**.

Studies in Jewelry or Metalsmithing

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**

ART319 INTERMEDIATE METALS 3-6 sem. hrs.

This course builds upon the skills and aesthetic development established in Metals I and II. Metal-smithing 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**

ART471 MARKETING TECHNIQUES 3 sem. hrs.

This is a course designed to prepare an artist to market his art wholesale or retail. Business procedures, taxes, loans, and buyer presentations are investigated and practiced. Prerequisite: 3 hours of advanced art in any media or permission of the instructor.

ART472 ADVANCED METALS 3-6-9-12 sem hrs.

Advanced students will further define and develop their personal aesthetic while continuing to build their technical expertise. A series of experiences in advanced metalworking will allow the student to selectively study a variety of techniques such as: etching, inlay, tool making, raising, forming, enameling, granulation, mold making for multiples, advanced fabrication, etc. Formal analysis of work occurs in group and individual critiques. Prerequisite: Six credits of **ART319**.

ART511 METAL ENAMELING WORKSHOP 3 sem. hrs.

This is a workshop exploring the use of vitreous enamels as a supplemental surface treatment in metalwork. Primary emphasis will be placed on historical techniques: i.e., champleve, plique-a-jour, and cloisonne. Prerequisite: **ART211** or permission of the instructor.

ART580 INTERNSHIP IN JEWELRY/ METALSMITHING 6-15 sem. hrs.

See catalog description of **ART580 Internship - BFA**.

Studies in Painting

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**.

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**.

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**

ART335 INTERMEDIATE PAINTING 3-6 sem. hrs.

This course provides for an examination by the student of concepts of space, light and shade, color and composition through the student's direct observation of subject matter and through lectures by the instructor. Prerequisite: **ART231** and **ART232**.

ART336 INTERPRETING THE LANDSCAPE 3 sem. hrs.

Students will be working largely outdoors and on-site to create paintings and drawings of the landscape. Emphasis will be on the "plain air" experience. Additional coursework will involve developing images in the studio working from sketches and photographs made on-site. Students are strongly encouraged to have access to dependable transportation. Prerequisite: **ART307** and **ART231**.

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**.

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**.

ART580 INTERNSHIP IN PAINTING 6-15 sem. hrs.

See catalog description of **ART580** for Internship - BFA.

Studies in Photography

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.

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**, **ART252 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.

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.

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.

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.

ART580 INTERNSHIP IN PHOTOGRAPHY 6-15 sem. hrs.

See catalog description of **ART580 Internship - BFA**.

Studies in Printmaking

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**.

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**.

ART329 PHOTO-LITHOGRAPHY 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**.

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**.

ART580 INTERNSHIP IN PRINTMAKING 6-15 sem. hrs.
See catalog description of **ART580 Internship – BFA.**

Studies in Sculpture

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.**

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: **Art226** or permission of 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.**

ART477 ADVANCED SCULPTURE 3-6-9-12 sem. hrs.
Extension of **ART377.** Prerequisite: **ART226** and **ART227.**

ART580 INTERNSHIP IN SCULPTURE 6-15 sem. hrs.
See catalogue description of **ART580 Internship – BFA.**

Studies in Weaving and Fibers

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.

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.

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.

ART580 INTERNSHIP IN WEAVING AND FIBERS 6-15 sem. hrs.
See catalog description of **ART580 Internship – BFA.**

Studies in Wood and Furniture Design

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.

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.**

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.

ART580 INTERNSHIP IN WOOD AND FURNITURE DESIGN 6-15 sem. hrs.
See catalogue description of **ART580 Internship – BFA.**

BIOLOGY AND HEALTH SERVICES DEPARTMENT

Medical Technology Courses

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, cross-matching, transfusion reactions, processing donor blood, and paternity exclusion testing. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

MEDT407 HEMATOLOGY AND COAGULATION 5 sem. hrs.
Lecture and laboratory practicum on enumeration of formed elements in the blood, hemoglobinometry, cell morphology, anemias and polycythemia, lymphomas, coagulation tests and clinical interpretation of abnormal results.

MEDT409 PARASITOLOGY AND VIROLOGY 2 sem. hrs.

Lecture and laboratory practicum on the sources, classification and nomenclature and identification of parasites and viruses of medical importance. Life cycles of selected protozoa and heiminths are studied. Methods of collecting, preserving and packing specimens for shipment to other laboratories are included. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

MEDT411 SEROLOGY AND IMMUNOLOGY 4 sem. hrs.

Lecture and laboratory practicum for tests of syphilis and other diseases detectable by serologic methods. Included are fluorescent antibody testing, complement fixation and bacterial agglutination tests. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

MEDT412 CLINICAL MICROSCOPY 2 sem. hrs.

Lecture and laboratory practicum on the examination of urine and other body fluids, such as spinal fluid and gastric fluid. Emphasis is placed on the detection of abnormalities and the disease in which these abnormalities occur. Other examinations include the examination of semen for fertility and the examination of urine for pregnancy.

MEDT422 MYCOLOGY 2 sem. hrs.

Lecture and laboratory practicum of fungi of medical importance. Included are classification and nomenclature, methods of culture and identification and the clinical aspects of mycologic diseases. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

Nuclear Medicine

NMED401 BASIC MATH AND NUCLEAR PHYSICS 3 sem. hrs.

This course entails basic mathematics pertinent to nuclear medicine - algebraic operations, scientific notation, exponentials, logarithms, graphing, formulae - plus physical principles, concepts, and quantifications of mass-energy relationships, atomic structure, radioactive decay schemes, half-life, units of exposure and dose, shielding formulae, and radionuclide equilibrium states.

NMED402 NUCLEAR MEDICINE INSTRUMENTATION 3 sem. hrs.

Topics included are concepts of gas-filled radiation detectors, scintillation detectors, scintillation spectrometers and components, spectrometer operation, and spectrometer quality determination and control. Rectilinear scanners - function, construction, usage, and scanner data presentation - collimation, imaging cameras and their control, plus modulation transfer, are also entailed in the course.

NMED403 RADIONUCLIDE MEASUREMENTS 3 sem. hrs.

This course presents the use of computers in nuclear medicine. Topics include computer hardware, memories, software, firmware and types of comput-

ers. Liquid scintillation, solid state detection, ultrasound, fluorescent scanning, computerized axial tomography and emission tomography are presented as to their dependence on computer techniques.

NMED404 RADIOBIOLOGY AND RADIATION PROTECTION 3 sem. hrs.

Presentations include biological ionizations, dosimetry, exposure calculation and prognosis, radiologic effects - molecular, cellular tissue, organ, and whole body - early, late, acute, and chronic effects of radiation, radiation protection, personnel and environmental monitoring, licensing requirements, identification and marking of radiation areas, radionuclide storage and disposal, and management of clinical radiation emergencies.

NMED405 PHYSIOLOGY, HEMATOLOGY, AND CHEMISTRY 3 sem. hrs.

The course incorporates a study of numerous concepts of chemistry, physiology, hematology and gastroenterology. Topics include chemical bonding, crystals, colloids, chemical separation techniques, applicable biochemical concepts, and the chemistry of radiographic film processing. Major human organ and organ systems are presented as to their cellular and molecular mechanisms and as to their relationships with each other. Particular emphasis is given to the bloodstream injection and transfer of radionuclides, to organ accumulation and excretory removal of nuclides, to gastrointestinal transfer and absorption measurements. Related topics in pathology, patient dose administration, instrumentation, methodologies and nuclear medicine techniques are also included.

NMED406 CLINICAL RADIONUCLIDES 4 sem. hrs.

Discussions include tracer theory, radionuclide production and occurrence, pharmacologic properties and actions of radiopharmaceuticals, methods of localization, radiopharmaceutical preparations and their quality control, patient dose preparation and administration. Radioimmunoassay principles, types, usage, quantitation, and methodology are also presented. Related subjects in human hormone structures, principles of immunology, sensitivity and specificity of preparations, proper protocols and techniques, and sources of error are included.

NMED407 NUCLEAR MEDICINE PROCEDURES 6 sem. hrs.

Included in this course are properties and selection of therapeutic radiopharmaceuticals, dose preparation and administration, applicable statistical concepts, physiology and pathology. Consideration is given to different types of radiation therapy, their relative worth, patient safety, hospital function and safety, ethical patient communication, patient movement and transfer, first aid and management of emergency situations emphasizing cardiopulmonary resuscitation (CPR), medical asperis, isolation techniques, vital sign determinations, accident prevention, safety precautions, and professional attitudes and responsibilities to the patient.

NMED408 CLINICAL MEDICINE PRACTICUM 7 sem. hrs.

Students receive clinical training for a period of a 33 weeks. This training is effected in a nuclear medicine department in a selected hospital. Under careful supervision, the student receives instruction in virtually every area of the practice of clinical nuclear

medicine, e.g., imaging procedures, organ concentration-excretion measurements, radioimmunoassay, therapy procedures, patient scheduling, radiopharmaceutical preparation, proper instrumentation usage and quality control, and the practice of proper, effective radiological safety.

Pymatuning Laboratory of Ecology

PYMA619 AQUATIC ENTOMOLOGY 3 sem. hrs.

The aquatic insects are discussed with respect to their evolutionary origins, biogeography, habitat preferences, trophic ecology life cycles, morphological and physiological adaptations, and taxonomy. Great emphasis is placed on the ability of the student to identify these insects and to associate them with the ecological conditions under which they are found. Extensive field and laboratory studies are made both individually and as a class.

PYMA623 AVIAN ECOLOGY 3 sem. hrs.

This field work course studies the evolution, behavior, and ecology of birds. It emphasizes the identification of local species and experimental methods in the field.

PYMA626 AQUATIC BOTANY 3 sem. hrs.

Emphasis on recognition of the freshwater algae and aquatic vascular in field communities and on the methods of quantifying their relative numbers and mass. Prerequisite: permission of the instructor.

PYMA633 FIELD BOTANY 3 sem. hrs.

This field work course emphasizes identification of native herbaceous and woody plants in terrestrial communities and quantitative methods for analyzing relative densities, biomass, and ecological relationships.

PYMA634 ENVIRONMENTAL EVALUATION 4 sem. hrs.

Lecture, laboratory, and field trips are designed to acquaint students with environmental evaluation techniques used in terrestrial and aquatic systems. Social and economic factors will be considered. Students will participate in preparation of an assessment proposal containing all elements of a typical commercial proposal.

PYMA636 MICROBIAL ECOLOGY 3 sem. hrs.

This field work course studies the interrelations among microorganisms, their processes, and their environments through lecture, laboratory and field experiences. It emphasizes the descriptive process and the important features in the life histories of special groups of decomposers which enable them to thrive in particular habitats. Prerequisite: **PYMA634** or **BIOL522** or **BIOL308** or consent of the instructor.

PYMA639 FIELD ENTOMOLOGY 3 sem. hrs.

This field work course analyzes the systematics, natural history and ecology of insects. It surveys to order the local insect fauna through field observation and collection. It also studies selected lower taxonomic levels.

PYMA641 MAMMALIAN ECOLOGY 3 sem. hrs.

This field work course studies mammals of Pennsylvania, emphasizing the ecology of mammals of the Pymatuning region. Laboratory and field techniques focus on ecological distribution, community structure, and physiological ecology.

PYMA660 STREAM ECOLOGY 3 sem. hrs.

This course will consist of field, laboratory and lecture topics in lotic ecology. Among the subjects to be included are: Fluvial morphology, chemical and physical features and biological processes. Emphasis will be placed on the interpretation of stream phenomena in view of stream continuum theory.

BIOL604 LIMNOLOGY 3 sem. hrs.

A field-oriented study of lakes, reservoirs, and streams as dynamic systems. Inland waters are considered in terms of their physical, chemical, geological and biological components. Emphasis is placed on the use of quantitative sampling and analytical techniques. A background in botany and zoology is a prerequisite while a background in inorganic chemistry is helpful.

BIOL681 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, and applied aspects of the ecology of fish and fishery biology will be studied. Prerequisite: a course in vertebrate zoology, ichthyology, ecology or permission of the instructor.

BIOL682 BEHAVIORAL ECOLOGY 4 sem. hrs.

Behavior is studied from an evolutionary perspective. Current models of foraging, mating and social behavior are evaluated through classroom and field work.

Biology Courses

BIOL100 INTRODUCTION TO BIOLOGY 3 sem. hrs.

This course introduces students who are not majoring in the natural sciences to topics that are broadly relevant to all forms of living organisms: the chemistry of life; cell structures and functions; energy storage, retrieval, and use in cells; the actions of DNA; cell division and life cycles; genetic inheritance; evolution; species formation; taxonomy; and ecology. This course is approved for General Education – Core 7.

BIOL101 HUMAN BIOLOGY 3 sem. hrs.

The foundations, principles, and processes of biology are taught as they are exemplified by or relate to the human organism. The structures, reactions, interrelationships, and malfunctions of human organs, systems, and processes are emphasized. Lecture and laboratory. This course is approved for General Education – Distribution 3.

BIOL102 ENVIRONMENTAL BIOLOGY 3 sem. hrs.

The characteristics and ecological relationships of the major groups of living organisms are considered. Emphasis is placed on organisms as members of populations and communities in relation to their environment and other organisms, rather than as isolated entities. Lecture and laboratory. This course is approved for General Education – Distribution 3

BIOL103 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. It includes lecture and laboratory. This course is approved for General Education – Core 7.

BIOL230 BOTANY 4 sem. hrs.

This course is a continuation of BIOL103 with emphasis on taxonomic and evolutionary concepts. It considers the phylogenetic relationships and diversity of major taxa, including bacteria, algae, fungi, bryophytes and tracheophytes. It includes lecture and laboratory. Prerequisite: BIOL103 or equivalent with a C or better. This course is approved for General Education – Distribution 3.

BIOL240 ZOOLOGY 4 sem. hrs.

In phylogenetic sequence, and at the various levels of organization, representatives of each major group of animals are studied as to their anatomy, physiology, origins, life histories, and habitats. Major emphasis is devoted to the invertebrate phyla, but coverage of the phylum Chordata is included. Lecture and laboratory. Prerequisite: BIOL103 or equivalent with a C grade or better. This course is approved for General Education – Distribution 3.

BIOL300 GENETICS 4 sem. hrs.

This course considers the mechanisms of inheritance with emphasis upon applying genetic principles to human affairs. Lecture and laboratory. Prerequisites: high school algebra, one college course in biology and one year of chemistry or the equivalent, or permission of the instructor. This course is approved for General Education – Distribution 3.

BIOL302 HISTOLOGY 3 sem. hrs.

A survey of the microscopic structure of Mammalian tissues and organs. Lectures will discuss the structure, function, and some pathology of the tissues and organs. In the laboratory, prepared microscopic slides will be studied in detail. In addition, the students will receive training in basic animal histological techniques. Prerequisite: BIOL240. 2 hours lecture, 3 hours lab.

BIOL304 BIOLOGY OF AGING 3 sem. hrs.

This course introduces students to biological aspects of aging in humans and other animals. The aging process is studied at the cellular and organismic levels in both healthy and disease states. Non-laboratory. Prerequisite: BIOL101, 102, or 103. This course is approved for General Education – Distribution 3.

BIOL305 CELL AND MOLECULAR BIOLOGY 4 sem. hrs.

This course will examine the structure and function of cellular organelles and the molecular basis for cellular processes such as cell signaling, cell growth and division and cell differentiation. The course will also integrate genetic and biochemical approaches to the study of DNA structure and gene expression. Laboratory exercises will include methods in the isolation and manipulation of subcellular components. Three hours lecture and three hours laboratory. Prerequisites: BIOL103 and CHEM141 or CHEM241.

BIOL306 INTRODUCTION TO HUMAN GENETICS 3 sem. hrs.

This course reviews classical human heredity and population genetics concepts, then considers molecular genetics 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. It is not appropriate for Biology majors. Prerequisite: BIOL101 or equivalent or permission of instructor. This course is approved for General Education – Distribution 3.

BIOL307 HISTORY OF BIOLOGY 3 sem. hrs.

This course will survey the history of biology and medicine from ancient times to the mid-twentieth century, with special emphasis on the genesis of modern biological concepts and approaches in the nineteenth century. Genetics, evolution, and experimental medicine will be considered using the works of Darwin, Mendel, Bernard, and others. Prerequisites: any of BIOL100, BIOL101, BIOL102, BIOL103 or equivalent. This course is approved for General Education – Distribution 3.

BIOL308 MICROBIOLOGY 4 sem. hrs.

This course is an overview of the science of microbiology. Particular emphasis will be placed on the study of bacteria and their role in the natural world. Included in the course will be discussions of bacterial anatomy and physiology, growth, genetics, uses in biotechnology and the role of microorganisms in the environment. There will also be a brief discussion of non-bacterial microorganisms and viruses. Prerequisite: CHEM141 or CHEM241 or equivalent. BIOL103 or BIOL312 and BIOL313, with lab. 2 hours lecture, 4 hours lab.

BIOL309 VERTEBRATE ZOOLOGY 3 sem. hrs.

The study of the chordates with emphasis on the vertebrates in their evolutionary development from the lower to the higher forms. In addition, a careful study of the basic and important structures of each class of vertebrates, their functions, life histories and natural histories (special adaptations and habits, origin and development) will be considered. Prerequisite: BIOL240, with lab. 2 hours lecture, 3 hours lab.

BIOL310 HUMAN ANATOMY AND PHYSIOLOGY 4 sem. hrs.

A study of the organization and function of the human body. Anatomy is combined with the study of physiology to present an integrated understanding of the human organism. **Does not** fulfill requirements for biology majors. There are no prerequisites.

BIOL311 BASIC EXPERIMENTAL PHYSIOLOGY 3 sem. hrs.

An introductory laboratory course in human physiology intended for physical education majors. Basic concepts of human and general physiology are presented with an emphasis on laboratory exercises. Prerequisite: HPE212 or BIOL240, with lab. 2 hours lecture, 3 hours lab.

BIOL312 HUMAN PHYSIOLOGY AND ANATOMY I 4 sem. hrs.

This course is a study of normal human function, designed for those preparing for vocations in the medical fields. The course will present the rationale of scientific investigation, the concept of living systems as cybernetic entities, the cell as a functioning system and the functional structure of human tissues and organs: centering attention on the Circulatory, Respiratory and Digestive systems. The course is half of a two semester sequence, the first semester (BIOL312) not having any prerequisites, but itself being prerequisite for the second (BIOL313). Open to nursing majors or by consent of instructor; not available for credit to biology majors, with lab. 3 hours lecture, 3 hours lab.

BIOL313 HUMAN PHYSIOLOGY AND ANATOMY II 4 sem. hrs.

This course is a study of normal human function, designed for those preparing for vocations in the medical fields. The course will consider the integration, control and reproduction of the human organism as a whole; centering attention on the muscular, skeletal, nervous, endocrine and reproductive systems. Prerequisite: **BIOL312**, with lab. 3 hours lecture, 3 hours lab.

BIOL314 COMPUTERS AND LIFE SCIENCE 3 sem. hrs.

This lecture and laboratory course integrates the use of the computer with laboratory work and theory in the life sciences. It covers computer-aided instruction, experiment simulation, laboratory experimentation, data analysis, and computer interfacing. Prerequisites: **BIOL100** or **BIOL101**, or **BIOL102** or **BIOL103**. This course is approved for General Education – Distribution 3 and Computer Competency.

BIOL318 CLINICAL MICROBIOLOGY 4 sem. hrs.

This course is an overview of clinical and medically significant microorganisms as well as an introduction to the basic concepts of microbiology. Particular emphasis will be on the isolation, identification, treatment and control of human pathogens. A discussion of the human immune response to infectious agents will be included. Prerequisites: **CHEM141** or **241** or equivalent, plus **BIOL103** or both **BIOL312** and **BIOL313**.

BIOL320 PLANT PHYSIOLOGY 4 sem. hrs.

A study of the internal economy of vascular plants and their relations with their environment. Includes water relations, salt relations, photosynthesis, respiration and other cell processes of plants. Prerequisite: **BIOL103** and **BIOL 230**.

BIOL325 HUMAN HISTORY AS HISTORICAL SCIENCE: GUNS, GERMS, AND STEEL 3 sem. hrs.

This course provides for an understanding of human history as a historical science using the perspective of the author Jared Diamond from his Pulitzer Prize winning book *Guns, Germs, and Steel: The Fates of Human Societies*. In it, Diamond argues that the fate of different peoples rests on their environment, and not because of biological differences among groups of people. Furthermore, he argues that a comprehensive understanding of human history requires that scientific disciplines usually remotely tied to human

history (i.e., genetics, biogeography, behavioral ecology, epidemiology) must be included. This view will be critically evaluated, compared to competing theories of human history, and applied to a model of future human societies. Prerequisites: One biology course or one history course or permission of instructor(s). Honors only. This course is approved for General Education – Distribution 2 or 3.

BIOL340 ANIMAL PHYSIOLOGY 4 sem. hrs.

A study of the homeostatic functioning of organ systems, organs and tissues of living animals, employing various techniques-surgical, hormonal, pharmaceutical, mechanical and electrical - in order to achieve quantitative understanding of life processes. Much of the laboratory work involves student preparations of living amphibians and rodents. Prerequisite: **BIOL240** and **CHEM141** or **CHEM 241** or **CHEM330**, with lab. 3 hours lecture, 3 hours lab.

BIOL341 VERTEBRATE ANATOMY 3 sem. hrs.

Primarily a course in comparative anatomy of the vertebrates. Type species are studied with emphasis on mammalian anatomy. Laboratory, lectures and demonstrations. Prerequisite: **BIOL240**, with lab. 2 hours lecture, 3 hours lab.

BIOL342 ANIMAL BEHAVIOR 3 sem. hrs.

This course considers the behavior of animals under natural and laboratory conditions, drawing examples from a range of invertebrates and vertebrates including primates. It discusses the relevance of behavior studies to the field of biology, and the contributions of behavior studies to ecology, taxonomy, and evolutionary theory. 2 hours lecture and 3 hours lab. Prerequisite: **BIOL240** or equivalent.

BIOL343 HUMAN FACTORS ANALYSIS 3 sem. hrs.

This course teaches the basic principles of human factors analysis necessary for understanding people-system relationships. It emphasizes the history and goals of human factors analysis and ergonomics, basic human anatomy and ergonomics relevant to machine design, human sensory capabilities and limitations, design of information displays, workspace design, floor plan evaluation, and the effects of stressors on performance. It includes two hours of laboratory per week. Prerequisite: **BIOL101** or equivalent, or permission of instructor.

BIOL395 INTERNSHIP IN BIOLOGY 3-15 sem. hrs.

This internship provides practical observation and experience in industry, research laboratories, hospitals, government agencies, or other professions or occupations related to the biological sciences. Students will spend all or part of the semester off campus in approved situations. In addition to the hours spent on the job, the student will also be responsible to his/her faculty internship advisor. Prerequisite: Approval of the Department of Biology and Health Services Internship Committee.

BIOL400 ECOLOGY 3 sem. hrs.

This course presents a study of plants and animals in relation to their physical and biological environments. Special topics include distribution factors, life zones, food chains and adaptations. Special attention is given to animal and plant communities in Northwestern Pennsylvania. Class consists of lectures, laboratory exercises, and field trips. Prerequisite: **BIOL230** and **BIOL240**.

BIOL403 ORGANIC EVOLUTION 3 sem. hrs.

The evolution of the modern synthesis and the ability of this theory to explain the genetic structure of populations, molecular evolution, adaptations and speciation will be discussed and investigated through laboratory exercises. Modern methods in phylogenetic systematic/taxonomy will also be presented and implemented through various projects. Prerequisite: **BIOL103** and **BIOL300**.

2 hours lecture and 3 hours of lab.

BIOL409 MOLECULAR BIOLOGY AND GENOMICS 4 sem. hrs.

This course will inculcate concepts in molecular biology and genomics and develop laboratory skills in molecular biology/biotechnology and computer skills in genomics, proteomics, and related areas. Three hours lecture and three hours laboratory. Prerequisites: **BIOL103** and either **BIOL300** or **BIOL305**, or equivalent.

BIOL437 CONSERVATION BIOLOGY 3 sem. hrs.

This course provides an overview of the history and current status of species extinction and global loss of biodiversity. The course surveys methods used to conserve animal and plant life and wildlife habitat in the United States and around the world, and discusses conservation activities and needs in societal, cultural, economic, and political contexts. Prerequisite: **BIOL230** or **BIOL240** or permission of the instructor.

BIOL442 ORNITHOLOGY 3 sem. hrs.

This course will include the identification, classification, and natural history of birds with emphasis on those of Pennsylvania and nearby states. It will involve laboratory, lectures, and much field study. Prerequisite: **BIOL240**, with lab. 2 hours lecture and 3 hours lab.

BIOL447 FIELD ZOOLOGY AND SYSTEMATICS 3 sem hrs.

This course is devoted to concepts and procedures of systematics, and to classifying and identifying fauna collected on field trips. Prerequisite: **BIOL240** with lab. 2 hours lecture, 3 hours lab.

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: **BIOL103** and either **MATH260** or **MATH350**.

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.

BIOL520 PLANT ANATOMY 3 sem. hrs.

A study of plant structure emphasizing the interrelationships of cells, tissues and organs. Primary attention is given to the Meta phyta. Prerequisite: **BIOL230**, with lab. 2 hours lecture, 3 hours lab.

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**, with lab. 2 hours lecture, 3 hours lab.

BIOL522 MYCOLOGY 3 sem. hrs.

A taxonomic study of the fungi considering primarily their morphology and their life cycle. Lecture, laboratory and field trips. Prerequisite: **BIOL230**, with lab. 2 hours lecture, 3 hours lab.

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**, with lab. 2 hours lecture, 3 hours lab.

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: **BIOL240**, with lab. 2 hours lecture, 3 hours lab.

BIOL541 PARASITOLOGY 3 sem. hrs.

Study of the anatomy, physiology, life history and habits of parasites of man and his domesticated animals. Special attention is given to the parasitic protozoa, worms and insects. Laboratory, lectures and demonstrations. Prerequisite: **BIOL240**, with lab. 2 hours lecture, 3 hours lab.

BIOL543 EMBRYOLOGY 3 sem. hrs.

An introduction to the differentiation and development of vertebrates. Laboratory emphasis will be on the development of the frog, chick and pig. Prerequisite: **BIOL240**, with lab. 2 hours lecture, 3 hours lab.

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. Prerequisites: **BIOL340**, or **BIOL312** and **BIOL313**, 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. Corequisite: **BIOL561**.

BIOL572 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: **BIOL103**, **BIOL240**. 2 hours lecture, 3 hours lab.

TREC595, 596, 597, 598, 599 SPECIAL TOPICS IN FIELD BIOLOGY 1-6 sem. hrs.**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. Prerequisites: **BIOL230** and **BIOL240**.

BIOL601 MOLECULAR BIOLOGY 3 sem. hrs.

This course integrates genetic and biochemical approaches in order to introduce topics such as DNA replication, genetic recombination, mutation, DNA repair, transcription, and translation. It explores in some detail the mechanisms and methods for the study of gene regulation in prokaryotes and eukaryotes. Prerequisites: **BIOL300** or **BIOL303**, and **CHEM302** or permission of the instructor. With lab.

BIOL600 (GRADUATE LEVEL) ECOLOGY 3 sem. hrs.

This course presents a study of plants and animals in relation to their physical and biological environments. Special topics include distribution factors, life zones, food chains and adaptations. Special attention is given to animal and plant communities in Northwestern Pennsylvania. Class consists of lectures, laboratory exercises, and field trips. Prerequisite: **BIOL230** and **BIOL240**.

BIOL602 HUMAN GENETICS 3 sem. hrs.

Major emphasis in the course will be placed on human inheritance, considering especially those characters that are analyzed by the methods of Hardy-Weinberg and others. Some consideration will be given to Mendelian traits in human populations, as well as biochemical inferences. Prerequisite: one course in biology (**BIOL300** recommended).

BIOL603 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: **BIOL103** and **BIOL300**.

2 hours lecture and 3 hours of lab.

BIOL604 LIMNOLOGY (*) 3 sem. hrs.**

A field-oriented study of lakes, reservoirs, and streams as dynamic systems. Inland waters are considered in terms of their physical, chemical, geological and biological components. Emphasis is placed on the use as quantitative sampling and analytical techniques. A background in botany and zoology is a prerequisite while a background in inorganic chemistry is helpful.

BIOL609 MOLECULAR BIOLOGY AND GENOMICS 4 sem. hrs.

This course will inculcate concepts in molecular biology and genomics and develop laboratory skills in molecular biology/biotechnology and computer skills in genomics, proteomics, and related areas. Three hours lecture and three hours laboratory. Prerequisites: **BIOL103** and either **BIOL300** or **BIOL305**, or equivalent.

BIOL610 DEVELOPMENTAL GENETICS (*) 3 sem. hrs.**

This course emphasizes the study of the effect of gene activity on developing systems. Stress will be placed on the role of sequential gene action and the development of the phenotype. The role of epigenetic factors in morphogenesis will be considered. Prerequisite: **BIOL300**.

BIOL637 (GRADUATE LEVEL) CONSERVATION ECOLOGY 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: **BIOL230** or **BIOL 240** or permission of the instructor.

BIOL640 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 and field work emphasizes fishes of the area. There is a three-hour laboratory each week. Prerequisite: **BIOL240** or **BIOL309**, or equivalent, or permission of instructor.

BIOL641 IMMUNOLOGY (*) 3 sem. hrs.**

This course stresses principles and methods of immunology and their application to various biological problems. Prerequisites: **BIOL103**, **CHEM141** or **CHEM330**. 2 hours lecture, 3 hours lab.

BIOL642 (GRADUATE LEVEL) 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: **BIOL240**, with lab. 2 hours lecture and 3 hours lab.

BIOL643 MAMMALOLOGY 3 sem. hrs.

This course provides for a study of taxonomy, adaptations, life histories, ecology and distribution of mammals with emphasis on those in this general region of the country. Prerequisite: **BIOL240**. 2 hours lecture, 3 hours lab.

BIOL646 BIOLOGICAL ASPECTS OF AGING 3 sem. hrs.

This course is designed to familiarize students from various backgrounds with basic physiological alterations occurring in man and animal with time, and the problems and potential solutions associated with such change.

BIOL647 (GRADUATE LEVEL) FIELD ZOOLOGY AND SYSTEMATICS 3 sem. hrs.

This course is devoted to concepts and procedures of systematics, and to classifying and identifying fauna collected on field trips. Prerequisite: **BIOL240** with lab. 2 hours lecture, 3 hours lab.

BIOL657 (GRADUATE LEVEL) 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: **BIOL103** and either **MATH260** or **MATH350**.

BIOL661 VIROLOGY () 3 sem. hrs.**

This course covers basic principles of animal virology and introduces techniques used in the isolation and characterization of viruses. Students examine the major classes of pathogenic viruses with particular emphasis on diagnostic assays, epidemiology, pathology, and treatment. Lecture only. Prerequisites: **BIOL308**, **CHEM302**, **BIOL300**, or permission of the instructor.

BIOL664 .431 INTRODUCTION TO PATHOLOGY 3 sem. hrs.

This course involves the study of abnormal function and structure at the tissue level. Topics covered are inflammation, necrosis, tissue repair, neoplasia and autoimmunity. A detailed unit on blood and electrolyte imbalances is also included. Lecture and demonstrations, no lab. Prerequisite: a course in Human or Animal Physiology or consent of the instructor.

BIOL681 FISH ECOLOGY 3 sem. hrs.

This course studies the interrelationships of fishes and their environments, both biotic and abiotic; anatomical, physiological, and sensory adaptations (both general and specific) of fishes for life in aquatic habitats; the behavior of fishes in relation to their aquatic ecology; the effects of pollution and of management on aquatic habitats; and applied aspects of fish ecology and fishery biology. Laboratory and field work emphasizes fishes of the area. There will be a three-hour laboratory each week. Prerequisite: **BIOL240** or **BIOL309**, or equivalent; **BIOL342**, **BIOL500**, or **BIOL640**, or equivalent; or permission of instructor.

BIOL682 BEHAVIORAL ECOLOGY 4 sem. hrs.

This course examines the behavior of animals in relation to their natural environment. It emphasizes the functioning of instinctive and learned patterns of behavior in their natural context, intraspecific communication and social organization, behavioral relationships between species, and how behavior is regulated and organized by physical and biological factors in the environment. It includes lecture and laboratory.

Nutrition/Dietetics Course

NUTR310 NUTRITION 3 sem. hrs.

An introduction to the major and minor nutrients, their chemistry, metabolism and assimilation in humans. The nutritional requirements throughout the life cycle and under certain disease states are examined. Prerequisites: **CHEM141** (or equivalent) and **BIOL312**.

BUSINESS AND ECONOMICS DEPARTMENT

Accounting Courses

ACCT215 ACCOUNTING I 3 sem. hrs.

Emphasis is placed on the main aspects of the accounting structure. The fundamental accounting principle is presented in the form of the balance sheet equation. This is followed by the logical development of the subject debits and credits, the special journals, specific account classifications, and control mechanisms of various types.

ACCT220 ACCOUNTING II 3 sem. hrs.

Emphasis is placed on accounting for business entities including partnerships and corporations, issuance of long term debt, and financial interpretation and analysis of financial statements. The course also includes an introduction to managerial accounting and using accounting information for business decision making. Prerequisite: **ACCT215**.

ACCT315 INTERMEDIATE ACCOUNTING I 3 sem. hrs.

An intensive study of accounting principles, conventions, and rules. Cost and revenue concepts are stressed. Topics: working papers, financial statements, partnerships, corporations, interest and annuities, and cost concepts. Prerequisite: **ACCT220**.

ACCT320 INTERMEDIATE ACCOUNTING II 3 sem. hrs.

A continuation of **ACCT310**. Topics: valuation of cash, receivables, inventories, tangible fixed assets, intangible assets, and investments. Topics also include funds and reserves, corporation financial statements and analyses of working capital, profits and funds flows. Prerequisite: **ACCT315**.

ACCT325 MANAGERIAL ACCOUNTING 3 sem. hrs.

This course develops an understanding of the concepts and technical applications associated with cost accounting in an organizational setting. Knowledge of the costing process will enhance the student's

ability to add value to the organization and advance the student's development in business decision-making. Prerequisites: **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: **ACCT220**.

ACCT335 TAX ACCOUNTING – ADVANCED TOPICS 3 sem. hrs.

This course covers the federal tax treatment of entities. Particular areas of study include federal income tax on corporations, partnerships and trusts, and estates. Also studied is the federal gift and estate tax law, tax research and tax planning concepts are developed. Prerequisite: **ACCT220**.

ACCT400 AUDITING I 3 sem. hrs.

This course discusses the purposes and organization of financial audits, including the use of studies to evaluate internal control mechanisms and procedures. Topics include preparation of audit programs for all financial accounts and preparation of auditing work papers. Emphasis is on generally accepted auditing standards. Prerequisite: **ACCT320**.

ACCT405 AUDITING II 3 sem. hrs.

This course presents the methodology and purpose of independent auditing; these include the nature and amount of audit evidence necessary for preparing audit reports. It also discusses the auditor's professional liability, ethics, independence, and responsibilities as well as specific methods of review and evaluation related to internal control. Other topics include management advisory services and compiled and reviewed financial statements. Prerequisite: **ACCT400**.

ACCT420 ADVANCED ACCOUNTING 3 sem. hrs.

A course designed for students who are training to become professional accountants, either public or private. Topics: Specialized accounting problems such as agency and branch accounting, joint ventures, corporate combinations, consolidations and mergers, consolidated financial statements, and specialized accounting systems. Prerequisite: **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**.

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.

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.

ACCT610 FUND ACCOUNTING 3 sem. hrs.

This course presents the special accounting procedures that are used by governments, governmental agencies, and not-for-profit organizations. Topics include the accounting for governmental-type funds, proprietary funds, and the self-balancing account groups. Computing software is employed in fund accounting applications and analyses. Prerequisite: **ACCT220**.

ACCT620 TAX POLICY AND RESEARCH 3 sem. hrs.

This course explores the choices made by the government in creating the taxation system. The various methods of taxation and the reasons those methods were selected are explored. In addition, the course covers in depth the nature and methods of researching and presenting tax-related information. Prerequisite: **ACCT330**.

ACCT630 ADVANCED MANAGERIAL ACCOUNTING 3 sem. hrs.

This course examines accounting information utilized by management for planning, control, motivation, internal reporting, and evaluation. Advanced concepts studied include activity based management, product pricing, inventory management, capital budgeting, and responsibility accounting. Managerial accounting practices of manufacturing, merchandising, and service firms in the commercial and not-for-profit sectors are studied in both domestic and multinational settings. Prerequisite: **ACCT325**.

ACCT640 PROFESSIONAL AUDITING PRACTICE 3 sem. hrs.

This course is a study of the purposes of auditing and the practical applications of generally accepted auditing standards. Specific topics include the audit of business operating cycles and computerized accounting systems, the development of electronic audit work papers, and the writing of audit reports. Prerequisite: **ACCT400**.

Business Courses

BUAD001 CAREER PREPARATION SEMINAR: BUSINESS 0 sem hrs.

This seminar prepares students for successful career progression. Topics include resume development, job search strategies, interviewing skills, networking skills, opportunities and processes for graduate study, and an examination of practical workplace issues. Successful completion of this course is required for graduation from the BS Business Administration program. Prerequisite: Junior or Senior Standing.

BUAD160 BUSINESS IN SOCIETY 3 sem. hrs.

This course introduces the student to the history and nature of business. The typical business models as well as nonprofit and entrepreneurial models of business are explored. Business is discussed within the constructs of society. Particular attention is paid to the place that ethical criteria serve in the business decision making model. Interwoven throughout the course are explorations of ethical issues. Prerequisite or co-requisite: **PHIL240**.

BUAD260 BUSINESS LAW I 3 sem hrs.

This course surveys the legal environment manager's face with attention to the sources of law and the arenas of dispute resolution, as well as to the relationship between law and ethics. Studies include an overview of criminal, tort and agency laws as they affect business. Contract law, including sales contracts, is studied in greater depth. Prerequisite: **ECON220** or **ACCT220** or permission of the instructor.

BUAD320 INFORMATION RESOURCE MANAGEMENT 3 sem. hrs.

This course provides a fundamental understanding of the principles of information resource management and related business information system applications and issues. A managerial approach familiarizes students with the Information Technology resources and their application to the enterprise business model. Students will also use the personal productivity tools, Spreadsheet, Word Processing, Presentation and Database software to solve business problems. Prerequisites: **MGMT300**, **CSCI104**.

BUAD365 BUSINESS LAW II 3 sem. hrs.

This course deepens the understanding of managers of the legal environment that business introduced in **BUAD360**. The law of business organizations and the sale of securities is 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: **BUAD360** 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: **BUAD360** 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** or **PHIL260**, **QUAN340**, at least two (2) 310-level or higher department courses, and senior standing.

BUAD490 INDEPENDENT STUDY: BUSINESS Variable Credit

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

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.

BUAD640 THE ECONOMICS OF MARKETS AND ENTERPRISE FINANCE 3 sem. hrs.

This course presents those elements of economic and financial theory and those characteristics of the economic environment, which are necessary to an understanding of enterprise decision making. The role of the external economic environment and that of the financial function within the enterprise are emphasized. Those topics, which are of particular relevance to information technology, are emphasized. Enrollment in this course is restricted to students admitted in the MS in Information Technology. Prerequisites: knowledge of principles of financial accounting and microeconomics.

BUAD645 ENTERPRISE MANAGEMENT AND MARKETING 3 sem. hrs.

This course presents established management and marketing theory and practice utilized in successful enterprise decision making. Topics which are of particular relevance to the management of information technology are emphasized. Enrollment in this course is restricted to students admitted in the MS in Information Technology. Prerequisites: knowledge of principles of financial accounting and microeconomics.

BUAD675 E-COMMERCE 3 sem. hrs.
This course examines the current business and technical issues of electronic commerce. Focus is on the motivation for and structure of the electronic commerce environments. Critical success factors, both economic and technical, are explored as well as legal and ethical issues. Design and deployment challenges are investigated. Enrollment in this course is restricted to students admitted in the MS in Information Technology. Prerequisites: **IT660, BUAD640, BUAD645.**

Economics Courses

HIST573- ECONOMIC HISTORY OF THE UNITED STATES 3 sem. hrs.

Students majoring in economics may receive credits in economics for these courses: see listings under History.

ECON100 ELEMENTS OF ECONOMICS 3 sem. hrs.

This course provides an introduction to the fundamental methods and concepts of economics. It includes basic elements of macro, micro, and international economics and emphasizes the application of economic analysis to relevant issues. This course is not a substitute for **ECON225** or **ECON220** and may not be taken by students who already have taken either **ECON225** or **ECON220**. This course is approved for General Education – Core 3.

ECON220 PRINCIPLES OF MICROECONOMICS 3 sem. hrs.

This course examines concepts and issues in the operation of the microeconomy. Topics include an analysis of demand and supply theory, measures of elasticity, consumer theory, production costs, price and output determination under different forms of market structure, and the operation of resource markets. Prerequisite: **ECON225**. 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. Prerequisite: **ECON220**.

ECON301 PERSONAL ECONOMICS 3 sem. hrs.

This course provides the fundamentals of personal economic and financial management. It emphasizes information and techniques useful in the management of individual or family economic concerns. Sample topics include budgeting, credit management, home purchasing, taxes, and investments. Prerequisite: **MATH104** or higher level mathematics course. 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 analyzes theory and policy with emphasis upon the presentation, in a clear and systematic form, theories concerning the levels of income and employment, the rate of economic growth, and the general price level. Prerequisite: **ECON220**.

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, cost and production theory, pricing in various market structures, and the theory of factor markets. Prerequisite: **ECON220**.

ECON325 BUSINESS, GOVERNMENT AND PUBLIC POLICY 3 sem. hrs.

This course deals with the relationship between governments and firms in a market economy and studies current laws and regulations with basic principles of public policy formulation. Topics include the rationale for public economic policy, antitrust, industrial regulation, and environmental regulations. Prerequisite: **ECON220**.

ECON330 LABOR ECONOMICS 3 sem. hrs.

This course in applied micro- and macro-economic theory deals with the general question of resource allocation and the determination of prices and levels of production in the economy. It focuses on the organization, functioning and outcomes of labor markets, the decision of labor market participants, and public policies related to labor resources. Prerequisite: **ECON220**.

ECON335 HISTORY OF ECONOMIC THOUGHT 3 sem. hrs.

This course analyzes the major contributions to economics such as the theories of Mercantilism, Physiocracy, Classical Economists, Neoclassical Economists, Marginalists, Institutional Economists, Monetary Economists and Contemporary Economists. Prerequisite: **ECON220**.

ECON345 MONEY AND BANKING 3 sem. hrs.

This course introduces the banking system and the role of money in a market economy. The course deals with the nature of money, the commercial banking system, financial markets, the Federal Reserve System, monetary theory and policy, and the international monetary system. Prerequisite: **ECON220**.

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 Mercan-

tilists to contemporary development theories; historical evidence of the economic growth and development in the U.S., Western Europe, and newly industrialized countries; and developing countries' policies, problems, and prospects. Prerequisite: **ECON220**.

ECON365 ENERGY ECONOMICS AND POLICY 3 sem. hrs.

The primary purpose of this course is to instruct students in the economic aspects of energy issues. Established techniques of microeconomics will be applied to analyze energy resources as scarce inputs in production, studied and evaluated with regard to economic efficiency. Prerequisite: **ECON220** or permission of the instructor.

ECON370 CONTEMPORARY ECONOMIC PROBLEMS 3 sem. hrs.

This course studies some of the most significant contemporary economic questions facing the American people. Examples of such topics include: the role of government in the economy, inflation and deflation, balance of international payments, federal budget deficits, environmental economic issues, and the economics of health care. Students who successfully complete **ECON251** may not register for this course. Prerequisite: **ECON100** or **ECON225**. This course is approved for General Education – Distribution 2.

ECON380 MANAGERIAL ECONOMICS 3 sem. hrs.

The application of economic analysis to the formulation and solutions of business problems in the areas of decision making and planning. Topics discussed include: demand analysis, forecasting, production, capital budgeting, capital investment, competition, cost, pricing, and profits. Prerequisite: **ECON220**.

ECON410 /ECON610 ECONOMIC FORECASTING 3 sem. hrs.

The primary objective of this course is to provide the student with a comprehensive introduction to Economic Forecasting. This includes exposure to the relevant theory, statistical and other quantitative techniques, and appropriate sources of data. Those students taking this course for graduate credit will be expected to complete additional work. Graduate students will demonstrate a deeper understanding of the complexities of economic forecasting. Prerequisites: **ECON220** and **QUAN340**.

ECON420 /ECON620 ECONOMETRICS 3 sem. hrs.

This course introduces the application of modern mathematical and statistical methods for the analysis of economic and business problems. Topics include exposure to simple and multiple linear regression analysis along with the related issues of residual analysis, tests of model significance, estimation, dummy variable analysis, and hypothesis testing. Emphasis is placed on the empirical estimation and validation of regression models with applications to the analysis of business and economic decision-making. Students will use statistical software for the estimation and analysis of econometric models. Prerequisites: **ECON220, QUAN340** or **MATH360, CSCI104** or equivalent computing experience.

ECON490 INDEPENDENT STUDY IN ECONOMICS 1-3 sem. hrs.

Individual readings in a specified area of economics, and/or the completion of a research project under the guidance of a faculty member.

ECON495 INTERNSHIP IN ECONOMICS 3-15 sem. hrs.

The economics internship provides students with an on-the-job learning experience in a commercial firm, government agency, or institution. Interns have an opportunity to apply classroom learning in a practical work environment. Economics interns must have earned 60 credits, with at least 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in upper-level (310 or above) economics electives courses (section II.B of the curriculum requirements). A minimum 2.6 grade point average in his/her major and a 2.4 grade point average overall is required. Application approval will be in accordance with University policy.

ECON508/ POLI508 PUBLIC FINANCE 3 sem. hrs.

This course consists of the study of the public economy at the national, state, and local levels. It will analyze the role of government in attaining an efficient allocation of resources and an equitable distribution of income. Topics will include taxation, government expenditure, public debt, pricing of government services, international fiscal relations, and the role of government in a market economy. Prerequisite: **ECON220**.

ECON550 SEMINAR ON EUROPEAN ECONOMY 3 sem. hrs.

This course deals with currently developing economic issues in Europe related to economic growth, relationship between western and eastern European blocks, economic integration and its impact on the world economy. Prerequisite: **ECON220** or equivalent background.

Finance Courses

FIN300 PRINCIPLES OF FINANCE 3 sem. hrs.

This course provides the theoretical concepts, institutional background, and technical skills necessary for effective enterprise financial management. Topics include the nature of enterprise finance, the analysis and use of financial information, financial markets and interest rates, international dimensions of finance and exchange rates, the time value of money, and security valuation. Prerequisites: **ACCT220**, **ECON225**, **ECON220**, **CSCI104** (or higher course), and **MATH105** (or higher mathematics course), enrollment in BSBA concentration or in BS Economics or in BA Mathematics/Actuarial Science concentration.

FIN310 INTERNATIONAL FINANCE 3 sem. hrs.

The course explores the characteristics of international financial markets and the associated risks and benefits. It studies the balance of payments adjustment mechanism, the international monetary system, foreign exchange markets, and international aspects of corporate financial management in a global economic environment. The role of international re-

serves, 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**.

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**.

FIN360 PERSONAL FINANCIAL PLANNING 3 sem. hrs.

This course introduces the personal financial planning process and the professional services environment that promotes and implements personal financial plans and products. Topics include personal financial data gathering, establishing personal goals and objectives, risk management and insurance products, investment strategies, income tax planning, retirement planning, and estate and gift planning. The preparation of formal personal financial plans is also included. 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** and **QUAN340**.

FIN420 RETIREMENT, ESTATE, AND RISK MANAGEMENT PLANNING 3 sem. hrs.

This course takes an in-depth look at strategies for retirement planning, asset transfer planning, and managing risk. Topics include pension plans, social security, investments for retirement needs, estate tax, gift tax, probate, trusts, gifts, life insurance, property insurance, health insurance, disability insurance, non-insurance risk management strategies, and professional standards. Prerequisites: **ACCT220**, **ECON225**, **FIN300** and **FIN360**.

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.

Management Courses

MGMT300 PRINCIPLES OF MANAGEMENT 3 sem. hrs.

This course exposes students to the managerial functions that are fundamental to the successful operation of an organization. It discusses models and techniques used in directing an organization and improving its performance along with current challenges and opportunities. A team business simulation will be used to integrate and apply these concepts. Prerequisites: Enrollment in a BSBA concentration, **ACCT220**, **ECON220**, and **CSCI104**.

MGMT310 COMPARATIVE MANAGEMENT 3 sem. hrs.

This course makes students aware of the complexity of operating multi-national firms in various cultures and nations. It analyzes the management functions, processes, and structures and the factors related to the cultural, social, economic, political, and physical dimensions of environments. Prerequisite: **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**.

Marketing Courses

MKTG300 PRINCIPLES OF MARKETING 3 sem. hrs.

This course teaches students the fundamental concepts and practices of marketing, and the factors that influence marketing decisions. Students learn to select target markets and develop the marketing mix (product, price, promotion and distribution) to achieve sustainable competitive advantage and meet the organization's objections. The on-going ethical issues and global challenges/opportunities facing marketers are also discussed. Topics will include development of marketing objectives and strategies, market targeting, pricing objectives and constraints, integrated marketing communication plans, and the supply chain management. Emphasis will be placed on the use of the "marketing concept" and its role in the flow of goods and services from producer to consumer. Prerequisites: Enrollment in a BSBA concentration, **ACCT220**, **CSCI104** and **ECON220**.

MKTG310 INTERNATIONAL MARKETING 3 sem. hrs.

This course acquaints students with international marketing. Three levels of competency form the goals of this course: first, an understanding of the critical nature of the economic, cultural, and political/legal backgrounds associated with international marketing; second, analytical skills in international market opportunity analysis; and third, competence relating to developing international market entry and maintenance strategies. Prerequisite: **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: **ACT220**, **ECON220**, **MKTG300**.

MKTG370 BUSINESS MARKETING 3 sem. hrs.

This course teaches students the distinct nature of the marketing task when the customer is an organization. It emphasizes characteristics and dynamics of commercial, government and institutional markets. Students explore marketing strategies and techniques for these markets and understand the challenges and opportunities facing business-to-business marketers. Prerequisite: **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 is 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.

Quantitative Analysis Courses

QUAN340 STATISTICS FOR BUSINESS AND ECONOMICS 3 sem. hrs.

This course extends the basic statistical concepts of elementary statistics to the analysis of regression analysis and statistical decision theory in the context of business and economic applications. Interpretation and application of statistical results for decision-making is emphasized. The course will also introduce sources of business and economic data and ethical issues in statistical analysis and reporting. Computer applications are integrated throughout the course and a working knowledge of electronic spreadsheets is expected. Prerequisite: **CSCI104**, **MATH260**.

CHEMISTRY DEPARTMENT

CHEM110 CHEMISTRY ORIENTATION 3 sem. hrs.

This course includes elementary chemical concepts, nomenclature and mathematical manipulations with special reference to chemical problems. It is in-

tended for students with a weak science/math background and is not open to students who have completed CHEM140 or CHEM240.

CHEM120 ELEMENTARY CHEMISTRY 3 sem. hrs.

This course introduces the role of science in the modern world to students who have no prior knowledge of chemistry. It includes a discussion of atomic structure and the periodic table, chemical laws, elements and compounds, chemical bonds and chemical charges, and carbon chemistry. Lab. This course is approved for General Education – Core 7.

CHEM140 GENERAL CHEMISTRY 4 sem. hrs.

This course is basic chemistry with special attention to elements and reactions that occur in biological systems. Topics include atomic structure, periodic table, octet rule, acids, bases, pH, gas laws, oxidation, reduction and cryoscopic properties, and nuclear chemistry. There are three hours of laboratory per week. This course is approved for General Education – Core 7. Prerequisite: Student must pass the department placement exam. If they do not pass or if they fail to take the exam, they will be placed in CHEM110.

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.

CHEM240 PRINCIPLES OF CHEMISTRY I 4 sem. hrs.

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, chemical bonds and the structure of molecules, gas laws, and the three states of matter. Prerequisite: Student must pass the department placement exam. If they do not pass or if they fail to take the exam, they will be placed in CHEM110.

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 complex compounds. Computer spreadsheets are regularly used to analyze laboratory data. There is a three hour lab per week. Prerequisite: CHEM240 or CHEM140. This course is approved for General Education - Distribution 3, and Computer Competency.

CHEM280 LABORATORY SAFETY 1 sem. hr.

This course instructs students in the safe handling of materials. Students learn about chemical reactivity, storage, personal protection, and available information sources. Prerequisite: one year of college chemistry or permission of instructor.

CHEM301 GENERAL ORGANIC CHEMISTRY 4 sem. hrs.

An introduction to the theory and practical applications of Organic Chemistry. In addition to covering the essential and most important organic reactions, theoretical concepts such as reaction mechanisms are discussed. The course is intended to provide background information for students in the health sciences and biology. There is a three hour lab per week. Prerequisite: CHEM140 or CHEM241. This course is approved for General Education - Distribution 3.

CHEM302 GENERAL BIOCHEMISTRY 4 sem. hrs.

This course introduces General Biochemistry with particular emphasis on the structure of molecules. Topics include the chemistry and metabolism of carbohydrates, lipids, proteins and nucleic acids, enzyme structure/function and genetic information transfer. There is a three hour lab per week. Prerequisite: CHEM301 or CHEM331. This course is approved for General Education – Distribution 3.

CHEM310 QUANTITATIVE ANALYSIS 4 sem. hrs.

This course introduces the basics of quantitative chemical analysis including the evaluation of analytical data, gravimetric analysis, titrimetric analysis based on precipitation, acid-base, oxidation-reduction and complexation reactions, potentiometry and other electroanalytical methods, absorption and emission spectroscopy and simple analytical separations. There is one laboratory period per week. Prerequisite: CHEM140 or CHEM241 or consent of instructor. This course is approved for General Education – Distribution 3.

CHEM330 ORGANIC CHEMISTRY I 4 sem. hrs.

This course studies the compounds containing carbon, both the aliphatic and aromatic series, emphasizing structural relationships, nomenclature, mechanisms, and characterization of individual functional groups. There is one three hour laboratory per week. Prerequisite: CHEM140 or CHEM241. This course is approved for General Education – Distribution 2.

CHEM331 ORGANIC CHEMISTRY II 4 sem. hrs.

This course continues Organic Chemistry I, emphasizing the oxygen and nitrogen-containing functional groups of both the aliphatic and aromatic series. It stresses spectroscopy as an analytical method throughout the course. There is one three hour laboratory per week. Prerequisite: CHEM330. This course is approved for General Education – Distribution 3.

CHEM341 BIOCHEMISTRY 4 sem. hrs.

This course introduces biochemistry with particular emphasis on the structure of biological macromolecules, and their chemical properties. Topics include: protein and enzyme structure and function, nucleic acid structure, and carbohydrate and lipid chemistry. There is a three-hour lab per week. Prerequisite: CHEM331.

CHEM381 SEARCHING SCIENTIFIC LITERATURE 1 sem. hr.

This course introduces science, education majors, and others to systematic methods of accessing scientific information. While the focus is on searching

the chemical literature, students will be exposed to searching information relevant to other scientific disciplines. Students learn to use important library resources such as abstracts, reviews, monographs, and on-line sources. Prerequisite: one year of college chemistry or permission of instructor.

CHEM420 INORGANIC CHEMISTRY 3 sem. hrs.

Introduction to the basic concepts necessary for further study in inorganic chemistry. A study of the electronic structure and periodic relationships between the elements and their compounds. Topics include atomic structure, covalent and ionic substances, thermochemistry, acid-base theory, metals, electron deficient and coordination compounds. Prerequisite: CHEM531.

CHEM421 ADVANCED ORGANIC CHEMISTRY 3 sem. hrs.

A one semester course covering both the theoretical and mechanistic aspects of Physical Organic Chemistry. Some emphasis will be given to spectrometric identification of organic compounds. Prerequisite: CHEM331.

CHEM450 INSTRUMENTAL ANALYSIS 5 sem. hrs.

A course dealing with the theory of electrochemical, photochemical and physico-chemical measurements and their application to the separation and analysis of chemical systems. Six hours of laboratory/week. Prerequisite: CHEM310.

CHEM460 FORENSIC ANALYSIS 3 sem. hrs.

This course will provide students with theoretical knowledge and technical skills in the areas of forensic analysis of microscopic evidence and physiological fluids. This course will include both lecture and laboratory components. Prerequisites: CHEM331, CHEM310, CHEM341, and CRIM355.

CHEM481 SEMINAR 1 sem. hr.

Students give public presentations of scientific findings. This course introduces students to various presentation styles and organization of material for a scientific presentation. The course content will vary depending upon the interests of the participating students and developments in the field. Prerequisite: CHEM381.

CHEM490 INDEPENDENT STUDY IN CHEMISTRY 2-5 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirements of any specific course in the curriculum.

CHEM495 INTERNSHIP IN CHEMISTRY FORENSIC SCIENCE 3 sem. hrs.

The internship provides experience in laboratories related to forensic investigations. Students will spend time off campus and in approved laboratory sites with primary supervision by agency personnel. The internship requires approval prior to participation. Students must satisfy internship requirements as detailed in the catalogue and must have completed CHEM460 or CHEM450 and BIOL305.

CHEM530 PHYSICAL CHEMISTRY I 4 sem. hrs.

This course introduces the fundamental concepts of theoretical chemistry with emphasis on quantitative calculations. Topics include the properties of gases, thermodynamics, thermochemistry, phase equilibria, ideal and non-ideal mixtures, and reaction equilibria. Three hours of laboratory per week are included. **Co-requisite: PHYS202 or PHYS321; Prerequisites: CHEM310 and MATH212**

CHEM531 PHYSICAL CHEMISTRY II 4 sem. hrs.

This course continues Physical Chemistry I. Topics include electrochemistry, kinetic theory of gases, reaction kinetics, quantum chemistry, atomic and molecular structure, molecular spectroscopy and statistical thermodynamics. Three hours of laboratory per week are included. Prerequisite: **CHEM530**.

CHEM533 POLYMER CHEMISTRY 3 sem. hrs.

This course includes the study of synthesis, reaction mechanism and reaction kinetics of polymers, and the properties of polymers and their relationship to the structure of the polymers. Prerequisite: **CHEM331**. Pre- or co-requisite: **CHEM530**.

CHEM535 ADVANCED CHEMISTRY LABORATORY I 1 sem. hr.

An introduction to chemical experimentation providing a basis for future laboratory research in chemistry. Experiments are selected to illustrate the application of physical measurement techniques to all areas of chemistry. Prerequisites: **CHEM310** and **CHEM530**. Co-requisite: **CHEM531**.

CHEM541 ADVANCED BIOCHEMISTRY 3 sem. hrs.

A detailed analysis of enzyme mechanisms and kinetics, including regulatory mechanisms employed by the body. Regulation of gene expression included. Prerequisite: **CHEM341**.

CHEM601 CHEMISTRY ACTIVITIES FOR THE CLASSROOM TEACHER 3 sem. hrs.

Based on the Institute of Chemical Education (an NSF funded program), this course supplements the K-8 teacher's background in chemistry. The course content relates to elementary and middle school science programs, and the course focuses on hands-on activities as well as the pedagogy of pre-high school science education. Prerequisite: consent of instructor.

COMMUNICATION AND MEDIA STUDIES DEPARTMENT

Communication and Media Studies Courses

COMM100 MASS COMMUNICATION AND MODERN SOCIETY 3 sem. hrs.

This course examines mass communication as information, entertainment, and persuasion from economic, political, social, and cultural perspectives. It

emphasizes mass communication processes and effects as related to the symbols and sense making of everyday life. The course also examines issues of ethics and responsibility for both audiences and communicators. 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 PSYCHOLOGY OF COMMUNICATION 3 sem. hrs.

This course examines the underlying psychological and cognitive variables affecting human communication, emphasizing the relationship of linguistic and psycholinguistic data to thought. This course is approved for General Education – Core 4.

COMM150 INTRODUCTION TO COMMUNICATION STUDIES 3 sem. hrs.

This course is designed as a broad introduction to the field of communication studies, which includes both content and the process of communication. The major divisions of the field of communication are addressed such as: nonverbal, interpersonal, group, organizational, public, mass media, and intercultural.

COMM204 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.

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.

COMM300 CRISIS COMMUNICATION 3 sem. hrs.

This course is designed to develop a conceptual understanding of the process of crisis communication. Particular attention is given to crisis management, crisis planning, image restoration, media relationships, communication strategies, and issues management. Students gain practical experience in designing crisis communication plans for organizational clients.

COMM305 EVENT PLANNING 3 sem. hrs.

This course provides students with theory and applications in planning, organizing, promoting, implementing, and evaluating special events.

COMM306 IMPROVING COMMUNICATION THROUGH TRANSACTIONAL ANALYSIS 3 sem. hrs.

This course acquaints students with Transactional Analysis and its impact on human relations. It stresses personal and professional applications. Prerequisite: **COMM107**.

COMM310 INTRODUCTION TO COMMUNICATION RESEARCH 3 sem. hrs.

This course introduces students to the principles, practices, applications, and ethics of communication research. Students will learn the basics of research methods and design as well as the nature of interpretation, presentation, and use of research findings. Prerequisite: **ENGL102** or **ENGL104**.

COMM311 ARGUMENTATION AND DEBATE 3 sem. hrs.

Designed for those students interested in pursuing the theory and practice of argumentation as it applies to both formal and informal discussion and debate situations. Argumentation is approached as a method of analysis and a process of influence.

COMM312 GROUP DISCUSSION 3 sem. hrs.

Study of group processes and dynamics through participation in small group discussions. Topics covered include responsibilities of group members, leadership, problem-solving, development, and maintenance of trust. Prerequisite: **COMM107**.

COMM313 ORAL INTERPRETATION 3 sem. hrs.

This course develops the vocal techniques and poise necessary to read and interpret works of literature aloud. It stresses the analysis of literary form as a basis for expressive oral presentation. Students develop skills in critiquing their own performances, as well as those of others. Prerequisite: **COMM107**. This course is approved for General Education – Distribution 1.

COMM315 ADVANCED PUBLIC SPEAKING 3 sem. hrs.

Designed for students who wish to receive advanced training in speech making. Specialized activity in voice and diction, practice in platform speaking and opportunities in speaking for special occasions. Designed to provide optimum practical experience. Prerequisite: **COMM107**.

COMM316 PARLIAMENTARY PROCEDURE 3 sem. hrs.

Designed to acquaint students with the theories, rules, and strategies governing contemporary group, business, and governmental meetings. Classroom experiences allowing for the application of parliamentary law in various situations are provided.

COMM318 INTERVIEWING: PRINCIPLES AND PRACTICES 3 sem. hrs.

This course introduces students to the purposes and kinds of interviews, and methods of preparing for interviews. It provides students with practice in informational, employment and persuasive interviewing. This course is approved for General Education – Distribution 1.

**COMM320 HEALTH
COMMUNICATION 3 sem. hrs.**

This course examines the function of communication in an array of health contexts locally, nationally and globally. It is designed to provide a holistic introduction to health issues as they relate to human communication at interpersonal, organizational and cultural levels. This course examines the nature, theories, and research shaping understanding of health as a communication phenomenon.

**COMM321 NONVERBAL
COMMUNICATION 3 sem. hrs.**

This course examines the processes and effects of communicating in nonverbal codes with emphasis upon such areas as proxemics (space), kinesics (body movement), chronemics (time), haptics (touch), paralanguage (intercultural variations), and relations in public as they affect the parameters, limitations, and significance of personal nonverbal behavior. Prerequisite: **COMM107**. This course is approved for General Education – Distribution 1.

**COMM325 INTERPERSONAL
COMMUNICATION 3 sem. hrs.**

Intended as a general introduction to the study of interpersonal communication, this course will investigate the skills and alternatives available for effective interpersonal communication. Prerequisite: **COMM107**.

**COMM330 GROUP ORAL
INTERPRETATION 3 sem. hrs.**

This course is a continuation of Oral Interpretation with emphasis placed upon group readings. Attention is given to the construction of lecture recitals and adaptation of various literary forms for platform presentation. Prerequisite: **COMM313**.

**COMM331 ADVANCED
GROUP ORAL
INTERPRETATION 1 sem. hr.**

This course is designed for students who wish to continue performing in Edinboro Off the Page Readers Theater. The group will meet a minimum of three hours per week for purposes of rehearsal and both on and off campus performances. This course may be repeated for a maximum of two hours credit. Prerequisite: **COMM330**.

**COMM340 CONFLICT,
POWER AND
COMMUNICATION 3 sem. hrs.**

Aspects of interpersonal, group and organizational power relations will be studied in relation to processes of conflict negotiation. Emphasis will be on early recognition of unhealthy conflict, accurate diagnosis of its causes, and the development of effective communication-based intervention strategies. Students will focus on skill development and apply theoretical modes of real-life case studies.

**COMM360 FREEDOM OF
SPEECH 3 sem. hrs.**

This course examines the history and current conceptions free speech in the United States, and challenges students to think critically about the meaning of free and responsible communication. It investigates free speech in interpersonal, organizational, media, and intercultural contexts, considering issues of ethics and appropriateness in speech communication.

**COMM400 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 communication theory as they work to see how leadership influences their lives.

**COMM412 CONTEMPORARY
RHETORIC 3 sem. hrs.**

This course is designed to develop a conceptual understanding of the process of contemporary rhetorical theory. Trends in rhetorical thought from the mid-twentieth century on will be explored. Additional attention will be paid to the emerging non-Western traditions. This course will explore the contemporary sources of rhetoric such as Non-governmental Organizations (NGOs), social movements, contemporary trials, and advertising campaigns. Prerequisite: **Junior Standing**.

**COMM415 LANGUAGE AND
THOUGHT IN
COMMUNICATION 3 sem. hrs.**

The course develops an awareness of how the relationship between language, language habits, and behavior improve our functioning in society. It examines General Semantics as an approach to linguistic study and the impact of the symbolic evaluative process as mitigated by language. This course is approved for General Education – Distribution 1.

**COMM416 PERSUASION AND
PROPAGANDA 3 sem. hrs.**

The course studies the psychological, social, and cultural bases of persuasion and propaganda in contemporary society. It explores persuasion on the interpersonal, public, and mass communication levels, and examines persuasion in sales, politics, religion, and the legal system. This course is approved for General Education – Distribution 1.

**COMM419 POLITICAL
CAMPAIGN
COMMUNICATION 3 sem. hrs.**

This course is concerned with the theory and research related to political campaign communication. It examines the persuasive process of political campaigning, the role of the media, the candidate, and image creation. Prerequisite: **Junior Standing**.

**COMM430 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.

**COMM480 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.

**COMM490 INDEPENDENT
STUDY 3-12 sem. hrs.****COMM496 INTERNSHIP/FIELD
EXPERIENCE IN
SPEECH
COMMUNICA-
TION 6-15 sem. hrs.**

The internship experience provides advanced students with an on-the-job work/educational experience and enables them to apply conceptual knowledge and skills learned in the classroom to the work environment.

**COMM 497/8/9 STUDIES IN
COMMUNICA-
TIONS 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: **JOUR364** or **Permission of Instructor**.

**COMM520 INTRODUCTION
TO GENDER
COMMUNICATION 3 sem. hrs.**

This course examines the problems of gender and communication in interpersonal, organizational, and mass-media contexts, with a focus on the role of communication theory in the development of gender studies.

**COMM605 (GRADUATE
LEVEL)
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.

COMM607 (GRADUATE LEVEL) 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: **JOUR364** or Permission of Instructor.

COMM635 INTEGRATED MARKETING COMMUNICATIONS 3 sem. hrs.

This course is concerned with the creation and implementation of communication campaigns using a mix of promotional methods including public relations, advertising, and related concepts. Goals and objectives, audience analysis, message strategies, tactics, and evaluation research are presented in an applied communication context with particular emphasis on the non-profit sector.

COMM645 TECHNOLOGY OF COMMUNICATION 3 sem. hrs.

This course examines how technology is used as a medium of communication, with a particular focus on Computer Mediated Communication (CMC), Group Decision Support Systems (GDSS), and net meetings. It takes up how communication technology structures perceptions and interactions through web pages, digital stories and multimedia texts.

COMM665 MANAGING CONFLICT

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 of conflict, conflict management styles, anger management practices, assertive behavior, attitude adjustment, and meanings of peace.

COMM675 ADVANCED INTERCULTURAL 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, asymmetrical power relations, and perceived threats in order to promote productive working relationships.

COMM685 CRISIS MANAGEMENT 3 sem. hrs

The purpose of this course is to develop a conceptual understanding of the process of crisis 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.

COMM 697/8/9 STUDIES IN COMMUNICATIONS 1-6 sem. hrs.

These topics represent a variety of courses in specialized areas beyond the content of regular courses. Examples include general semantics, creativity and communication, leadership communication, and top-

ics relevant to select to study abroad courses. Specific areas will be developed based on needs and abilities of students in conjunction with available faculty.

Journalism Courses

JOUR200 JOURNALISM ETHICS 3 sem. hrs.

This course probes ethical and legal issues that confront journalistic media and how these issues influence the way journalists perform their jobs. This course is approved for General Education – Core 6.

JOUR214 JOURNALISM AND SOCIETY 3 sem. hrs.

The purpose of this course is to consider how journalism and the general practice of media professionals *reflect* as well as *influence* society. The course will seek to develop awareness of the pervasive nature of journalism and media products in our society through a basic understanding of both psychological and sociological theories related to journalism. Students will explore how much of our 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.

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.

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.

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**.

JOUR326 INTRO. TO ELECTRONIC LAYOUT 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, spreadsheet, and word processing. This course is approved for General Education – Computer Competency.

JOUR327 EDITING FOR PUBLICATIONS 3 sem. hrs.

This course will cover the preparation of copy and related material for publication, with emphasis on professional writing, accuracy, clarity, and presentation. Course also involves learning the applications of computer software such as QuarkXPress in editing and packaging content.

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.

JOUR360 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.

JOUR364 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.

JOUR365 INTRODUCTION 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.

JOUR370 HISTORY OF PRINT JOURNALISM 3 sem. hrs.

This course will examine the historic relationship between American society and journalism. It will trace the development of American journalism with an emphasis on the cultural, technological and economic background of press development.

JOUR390 WRITING ADVERTISING I 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.

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: **JOUR364**, or permission of Instructor.

JOUR407 AUDIO PRODUCTION 3 sem. hrs.

This course introduces students to audio production in radio with study in the creative developments in radio production, the principles of writing for radio, and the principles and applications of various creative choices, including equipment, to the audio production paradigm.

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.

JOUR409 TELEVISION 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.

JOUR410 RADIO/TV JOURNALISM 3 sem. hrs.

This course is designed to provide the student with a general knowledge of the theories, principles, techniques, and problems of radio and television news casting. In addition to practical laboratory experience, the content will be presented in the theoretical context of the social, legal, political, and moral issues facing the broadcast journalist. Campus radio and television facilities will be used in conjunction with this course. Prerequisite: **JOUR409** or permission of the instructor.

JOUR416 ADVANCED REPORTING 3 sem. hrs.

An extension of the techniques studied in **JOUR316**. Emphasis will be on access to community records and going off the campus to investigate and write news articles. Interviewing and information gathering will be stressed. Prerequisite: **JOUR216, JOUR316**.

JOUR417 ADVANCED ELECTRONIC LAYOUT 3 sem. hrs.

In this advanced course, students combine computer technology with journalistic principles to generate print and online publications. Students gain a more extensive understanding of electronic design using leading software while satisfying the university's computer competency requirement. This course is approved for General Education – Computer Competency. Prerequisite: **JOUR326** or Permission of Instructor.

JOUR419 ADVANCED VIDEO PRODUCTION 3 sem. hrs.

This course emphasizes computerized editing and effects processing through the utilization of current software found throughout the industry. Students will become familiar with the operation of digital video cameras and associated equipment in a field production environment. Prerequisite: **JOUR409**.

JOUR420 FEATURE WRITING 3 sem. hrs.

Practice in writing imaginative, interpretative, humorous, and personal experiences for newspaper and magazine articles. Prerequisite: **JOUR216**.

JOUR421 JOURNALISM AND DEMOCRACY 3 sem. hrs.

This course will knit together subject matter from journalism and other liberal arts study areas. It will pursue that goal by using the idea of democracy as a lens. We will use that lens (and others) to examine the goals and practices of journalism – primarily in the United States but also in some other regions of the world.

JOUR423 THE EDITORIAL PAGE 3 sem. hrs.

Examines the problems of content selection and presentation, with extensive writing of analytical, persuasive, and interpretative articles. Prerequisite: **JOUR216**.

JOUR425 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: **JOUR365**.

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 INTERNSHIP 3 sem. hrs.

JOUR504 ADVANCED BROADCAST 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**.

JOUR540 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: **JOUR425** or Permission of Instructor.

EARLY CHILDHOOD AND SPECIAL EDUCATION DEPARTMENT

Early Childhood Courses

ECED110 CHILD DEVELOPMENT I 3 sem. hrs.

This course engages students in studying the characteristics and needs of children birth thru age five. Students study theories of physical, cognitive, language, social, and emotional development. Emphasis is placed on knowing and understanding multiple influences on development and learning. Students use observation techniques to collect and analyze data to evaluate learning environments are healthy, respectful, supportive, and challenging. This course includes 10 hours of observation for Level I field. Students with ELED 180 may not take ECED110 for credits. Prerequisite: **PSYC101**.

ECED120 INTRO. TO EARLY CHILDHOOD EDUCATION 3 sem. hrs.

This course examines the historical and contemporary perspectives of early childhood education (Pre-K through 4th grade). It addresses developmentally appropriate practices, diverse populations, models of early childhood education, and lesson planning for diverse populations. Students also learn to plan for inclusive learning environments and apply models of child guidance through *observation and analysis*. This course includes 10 hours of observation for Level I field experiences. Students who have taken ELED275 may not take ECED 120 for credit.

ECED150 CHILD DEVELOPMENT II 3 sem. hrs.

This course engages students in studying the characteristics and needs of children ages six through ten. Theories of cognitive, social, emotional, and physical development related to education, socialization, and cultural contexts are examined. Students use observational techniques and case study to collect and analyze data as they explore the theoretical foundations of child development. This course includes 10 hours of observation for Level I field experiences. Prerequisite: **PSYC 101, ECED 110**.

ECED200 PLANNING, DESIGNING AND MANAGING THE EARLY CHILDHOOD LEARNING ENV. 3 sem. hrs.

This course prepares candidates to construct cohesive lesson plans aligned with Pennsylvania Learning and 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 6 hours of Level II field experience and concurrent enrollment in ECED210 and 244.

ECED210 PLAY AND ACTIVE LEARNING APPROACHES TO EARLY CHILDHOOD EDUCATION 3 sem. hrs.

The rationale and value of play centered and active learning approaches for young children are examined, and the dynamics and categories of play as defined by classical and contemporary theories. Motor skills, cognitive abilities, creativity, and social-emotional factors influencing children's play are presented. Students explore how play and projects can be integrated into the curriculum of preschool through fourth grade. This course requires 6 hours of Level II field experience and concurrent enrollment in ECED200 and 244.

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 fami-

lies, and strategies for building supportive partnerships among the family, early childhood programs and community. Prerequisites: **ECED110, 120, 150** and **SPED 210**. This course requires 6 hours of level II field experience and concurrent enrollment in ECED200 and 210. Students who have taken ELED 344 may not take this class.

ECED270 LITERACY FOUNDATIONS FOR GRADES 1-4 3 sem. hrs.

This course is designed to provide candidates with a research and standard-based understanding of reading instruction essential for success for children from grades one through four. The course provides instruction in the major areas of reading, effective programs, materials, approaches, and a variety of strategies for a diverse population. Prerequisites: **ECED200, 210, 244, SPED210** and **PK/K block field experience Level III**. This course requires 6 hours of level II field and concurrent enrollment in ECED 290. Candidates who have taken ELED370 may not take this course.

ECED290 LANGUAGE ARTS FOR GRADES 1-4 3 sem. hrs.

This course focuses on literacy instruction involving listening and speaking, writing, spelling and grammar skills. The emphasis of the course is to provide candidates with a research and standard-based understanding that the use of language arts is essential in all academic areas for children from grades one through four. Prerequisites: **ECED 200, 210, 244, SPED 210** and **PK/K block level III field experience**. This course requires 6 hours of level II field experiences and concurrent enrollment in ECED 270. Candidates who have ELED 390 may not take this course.

ECED340 METHODS OF TEACHING SOCIAL STUDIES 3 sem. hrs.

This course introduces teacher candidates to social science content knowledge and procedures used to teach children from Pre-K to fourth grade. Topics include philosophy of social studies education, curriculum planning and organization, standards, effective instruction and assessment. Emphasis will be placed on choosing resources that differentiate instruction to meet the needs of all learners. Prerequisites: **ECED270, 290**, completion of the PK/K block field experience and concurrent enrollment in the Primary Methods Block with level III field experience. Students who have taken ELED 340 may not take this class.

ECED341 LANGUAGE AND LITERACY 3 sem. hrs.

This course examines language as the basis of all learning and provides a comprehensive study of children's literacy acquisition from birth through age 10. It includes the psychological and socio-cultural factors affecting the development and acquisitions of literacy. It emphasizes the conceptual, experiential and language foundations for learning to read and write. Prerequisites: **ECED110, 120, 150, 200, 210, 244, and SPED210**, and concurrent enrollment in PK/K block level III field experience. Students who have taken ELED 341 may not take this course.

ECED342 INTERGRATING MATH/SCIENCE IN THE EARLY YEARS 3 sem. hrs.

This course examines the natural integration of mathematics and science in early childhood education and prepares prospective preschool and kinder-

garten teachers to make informed decisions regarding theories, content, instructional methodologies, curricular resources, management procedures, and practical applications for implementing instruction for diverse learners in preschool and kindergarten classrooms. Prerequisites: **ECED 110, 120, 150, 200, 210, 244, SPED210** and concurrent enrollment in the PK/K Block with Level 3 field. Students who have taken ELED342 may not take this course.

ECED343 CREATIVE EXPRESSIVE ARTS 3 sem. hrs.

This course presents the rationale and value of integrating the arts into the classroom curriculum. Students examine the nature of creativity, the elements of music, and the elements and principles of art. This course teaches methods of creating assessment based instruction to promote artistic activities as well as adapting activities for special needs and ELL students. Prerequisites **ECED 110, 120, 200, 210, 244, SPED210** and concurrent enrollment in PreK/K block level 3 field experience. Students with credit in ELED 310, 315 or 343 cannot take ECED343 for credit.

ECED345 ADVOCACY AND GUIDANCE:SUPPORTING POSITIVE EXPERIENCES FOR YOUR CHILDREN 3 sem. hrs.

This course prepares candidates to be advocates for children and quality early education experiences. Practices and procedures for effective advocacy are addressed. Appropriate guidance classroom management strategies consistent with quality early learning experience are stressed. Prerequisites: **ECED 110, 120, 150, 200, 210, 244, SPED210** and concurrent enrollment in PREK-K Block field experience LEVEL III.

ECED350 LEARNING AND TEACHING MATHEMATICS IN GRADES 1-4 3 sem. hrs.

This course prepares prospective teachers of mathematics to make informed decisions regarding theories, content, instructional methodologies, curricular resources, classroom management procedures, assessment techniques, and practical applications when designing, developing, and implementing instruction for diverse learners in PK-4 classrooms. Prerequisites: **ECED270 and 290**, completion of the PK/K block field experience and concurrent enrollment in the Primary/Methods Course Block with Level III Field. Students who have taken ELED 350 may not take this class.

ECED360 LEARNING AND TEACHING SCIENCE IN GRADES 1-4 3 sem. hrs.

This course utilizes national and state standards, and hands-on, minds-on inquiry investigations to effectively prepare teacher candidates to use accurate subject matter content and assessment techniques when designing, developing, and implementing instruction for diverse learners in grades 1-4 classrooms. Prerequisites: **ECED270 and 290**, completion of the PK/K block, and concurrent enrollment in the primary/Methods Course Block with Level III Filed. Students who have taken ELED 360 may not take this class.

ECED380 DATA-DRIVEN ASSESSMENT FOR STUDENT LEARNING 3 sem. hrs.

This course investigates the nature and scope of assessment practices used in classrooms with primary-age children. Guiding principles and discussions of assessment types provide a framework for the development of effective practices. Students learn to use data as an informative source in planning and teaching. Attention is given to the collection and interpretation of data for instruction, grouping and administrative purposes. Prerequisites: **ECED270** and **290**, completion of the PK/K block field experience and concurrent enrollment in the Primary Methods Course Block with level III field experience. Students who have taken ELED380 may not take this class.

ECED381 OBSERVATION, DOCUMENTATION AND ASSESSMENT IN EARLY CHILDHOOD EDUCATION 3 sem. hrs.

This course identifies appropriate assessment strategies used to evaluate cognitive, physical, and psychosocial development of children, birth through age 7, and considers implications for curriculum planning. It explores the use of systematic observations, documentation and other effective assessment strategies. Prerequisites: **ECED110, 120, 150, 200, 244, SPED210** and concurrent enrollment in PreK/K Block field experience Level III. Students who have taken ELED 580 may not take this class.

ECED495 STUDENT TEACHING 3 sem. hrs.

This culminating experience is coordinated and supervised by University faculty and provides opportunities for teacher candidates to display competency in teaching young children (grades PreK-4) under the direct daily supervision of a qualified cooperating teacher. This course is part of professional block and provides the Stage 4 Field Experience. Prerequisite: candidacy.

Special Education Courses

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

SPED215 PSYCHOLOGY OF EXCEPTIONAL CHILDREN 3 sem. hrs.

This survey course studies exceptional children, including children with disabilities of mental retardation, learning disabilities, emotional/behavior disorders, hearing impairments, visual impairments, physical disabilities, other health impairments, com-

munication disorders, traumatic brain injury, as well as children who are gifted and/or talented. It covers the causes, characteristics, diagnosis, treatment, and educational provisions for exceptional children and includes units on cultural diversity and current legal and educational issues.

SPED230 BEHAVIOR DISORDERS OF CHILDHOOD 3 sem. hrs.

This course covers all the recognized manifestations of behavior disturbance in children from birth through adolescence. In addition to differential diagnostic considerations, it emphasizes both etiological factors and interventions related to each classification area. Prerequisite: **SPED215**.

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. This course is approved for General Education - Core 5.

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.

SPED309 PRINCIPLES OF BEHAVIOR MANAGEMENT IN THE CLASSROOM 3 sem. hrs.

This course provides theoretical and practical foundations for the applications of established behavioral management techniques with children in educational, institutional, and other settings. It emphasizes both the individual with exceptionalities in the special setting and the more nearly typical individual in the regular setting. Prerequisite: **PSYC101**.

SPED315 ASSESSMENT IN SPECIAL EDUCATION 3 sem. hrs.

This course introduces various theoretical and practical foundations necessary for the process of education and psychological assessment. Students learn assessment procedures and become familiar with

instruments commonly used in special education settings. (Partially replaces SPED313.) Prerequisites: **SPED215, ELED370, and ELED350**.

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.

SPED325 CURRICULUM IN SPECIAL EDUCATION 3 sem. hrs.

This course presents curriculum content and processes appropriate for students in special education. An emphasis is placed on interaction with families and development of curricular plans. Prerequisite: **SPED315**.

SPED330 EXCEPTIONAL LEARNERS IN P-12 INCLUSIVE CLASSROOMS 3 sem. hrs.

This course addresses the identification, prevalence, and learning characteristics of students with exceptionalities. Special emphasis is placed on classroom accommodations, and instructional modifications and adaptations for P-12 inclusion classrooms for the purpose of creating effective learning environments for all students. Legal mandates and requirements are addressed as well as special considerations of high stakes testing and assessments. Prerequisites: candidacy, **PSYC101**.

SPED340 EDUCATING INDIVIDUALS WITH LOW INCIDENCE DISABILITIES 3 sem. hrs.

This course focuses on low-incidence disabilities that include individuals with physical disabilities, health impairments, developmental disabilities, pervasive development disorder, traumatic brain injury, and multiple disabilities. Topics include conditions, characteristics, etiologies, assessment, instructional practices, functional curricula and materials, communication, inter-professional collaboration and professional practice. Prerequisite: **SPED 210** and Teacher Candidacy or permission of the instructor. Students required to take **SPED 400** may not enroll in **SPED 340**.

SPED350 LANGUAGE AND LITERACY SKILLS FOR EXCEPTIONAL STUDENTS 3 sem. hrs.

This course explores atypical development in oral and written language, and the implications for assessment and instruction. It examines the implications of cultural differences for identifying and treating language and literacy problems. It emphasizes the selection of materials and the application of empirically-validated strategies such as direct instruction for teaching reading and written expression to exceptional students. Prerequisites: **SPED210** or **SPED710**, and teacher candidacy. Students required to take **SPED441** OR **SPED451** may not enroll in **SPED 350**.

SPED360 INSTRUCTIONAL PLANNING STRATEGIES 3 sem. hrs.

This course examines in depth research-validated strategies, and their underlying theories, for planning and implementing instruction appropriate for students with special needs, including English Language Learners. It enables special education teacher-candidates to develop expertise in selecting and designing effective curriculum materials and in planning and delivering specialized explicit instruction that best reflects the unique needs of each exceptional student. Prerequisite: SPED210, SPED 240, Teacher candidacy or permission of instructor. Students required to take SPED 441 and SPED 451 may not enroll in SPED 360.

SPED370 ADAPTATIONS/ ACCOMMODATIONS IN INCLUSIVE SETTINGS 3 sem. hrs.

This course addresses inclusive practices involved in the planning and delivery of instruction to students with exceptional needs. The course stresses the collaborative nature of inclusion in P-12 settings. It emphasizes strategies for accommodations in reading, writing, math, content area instruction, and study skills. Prerequisite: SPED210 or permission of instructor. Teacher candidacy required. Taken in P-4, 4-8, or 7-12 Block. Students required to take SPED 330 may not enroll in SPED 370.

SPED400 INDIVIDUALS WITH LOW INCIDENCE DISABILITIES 3 sem. hrs.

This course focuses on low-incidence disabilities, including physical disabilities, health impairments, sensory impairments, severe communication disorders, developmental disabilities, mental retardation, pervasive developmental disorder, and multiple disabilities. Topics include conditions, characteristics, etiologies, assessment, instructional practices, functional curricula and materials, behavior management, integration, communication and collaboration, and professional practice. This course replaces SPED545, SPED570, and SPED571. A student who has completed any of these courses may not take this course for additional credit.

SPED410 POSITIVE BEHAVIOR INTERVENTIONS AND SUPPORTS 3 sem. hrs.

This course increases understanding of emotional and behavioral problems in children and adolescents, examining characteristics of selected disorders and recent research into etiological factors and psychological and educational interventions. It emphasizes theoretical, legal, and practical foundations for established behavior management techniques. It enables teacher-candidates to develop skills in assessing and analyzing serious behavior problems, and in designing and implementing empirically-validated interventions. Prerequisites: SPED210, teacher candidacy or permission of the instructor. Co-requisite: SPED 440. Students required to take SPED 230 may not enroll in SPED410.

SPED420 ASSESSMENT OF STUDENTS WITH DISABILITIES 3 sem. hrs.

This course provides information about and supervised practice using formal and informal assessment instruments commonly utilized in Special Education. It addresses instruments and procedures associated with the identification and programming pro-

cess, and curriculum-based assessment for progress monitoring. It enables Special Education teacher-candidates to develop skills in performing relevant assessments and in interpreting and communicating the results. Prerequisites: SPED 210, teacher candidacy or permission of instructor. Co-requisite: SPED 440. Students required to take SPED 315 may not enroll in SPED 420.

SPED430 COLLABORATION AND IEP DEVELOPMENT 3 sem. hrs.

This course examines the process of developing Individualized Education Plans (IEPs) for exceptional students, and provides supervised practice in completing state IEP forms. It presents best practice for collaborating with all members of the IEP team and emphasizes the role for the family. It presents strategies for encouraging parents' active participation in designing their children's programs and in monitoring their ongoing school performance. Prerequisite: SPED 210, teacher candidacy or permission of the instructor. Co-requisite: SPED 440.

SPED433 SPEECH AND LANGUAGE PROBLEMS OF EXCEPTIONAL CHILDREN 3 sem. hrs.

The development of the communicational processes as they relate to the normal child and how they deviate in the exceptional child will be presented. The course will provide the classroom teacher with the academic knowledge to better understand communicational pathologies, the ability to identify specific hearing, speech, language, and voice deviations, and practical suggestions for classroom management of children with communicational disorders.

SPED440 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 sem. hrs.

This field experience provides students with an intensive experience in the instruction of students with disabilities in a public school or alternative setting. Students participate in the education process by assisting in the assessment, planning, instruction, and classroom management of students under the supervision of a certified special educator in a public school or other approved educational setting. This course must be taken in conjunction with the Special Education Block: SPED 410, SPED 420, and SPED 430. Students required to take SPED 475 may not enroll in SPED 440. Prerequisites: SPED 210 and teacher candidacy.

SPED441 TEACHING STRATEGIES I 3 sem. hrs.

This course presents basic principles and techniques for designing and implementing instruction in language arts (oral language, reading, and written expression) that is appropriate for students with disabilities. It emphasizes the development and adaptation of lesson plans and the selection and application of empirically-validated strategies such as direct instruction. Prerequisites: SPED215 and formal acceptance as candidate for teacher certification.

SPED451 TEACHING STRATEGIES II 3 sem. hrs.

This course integrates the use of empirically-supported methodologies, strategies, and techniques into instructional units for students with high-incidence disabilities. It emphasizes explicit instruction in mathematics and the content areas of science,

social studies and career education. It includes use of technological resources, and creation of teacher-adapted instructional materials. Prerequisites: SPED215 or SPED441, and formal acceptance as candidates for teacher certification.

SPED460 YOUNG CHILDREN WITH DISABILITIES 3 sem. hrs.

This course introduces the field of Early Childhood Special Education with a focus on young children with disabilities. It emphasizes early intervention rationale, history and identification of at-risk children. Also included are mandates of P.L. 99-457 and 90-538 (early intervention law). Prerequisites: SPED215 or SPED710.

SPED475 FIELD EXPERIENCE WITH EXCEPTIONALITIES 6 sem. hrs.

This extended practicum course provides experience, in real life setting, in the education of children and/or adolescents with disabilities. It provides opportunities to work directly with exceptional children under supervised conditions and to assist the teacher(s) in basic planning, instruction, and classroom management. (Students must provide their own transportation.) Prerequisites: Successful completion of four special education courses, including SPED215.

SPED480 LEARNING DISABILITY 3 sem. hrs.

This course provides theoretical and practical knowledge in dealing with children who manifest learning disabilities. It explores historical development, relationships between learning disabilities and medicine, the initial diagnostic process and clinical teaching approaches, and investigates fundamental understandings relevant to sensory motor and perceptual anomalies. The course includes practical application. Prerequisite: SPED215.

SPED486 PROFESSIONAL PERFORMANCE IN ELEMENTARY AND SPECIAL EDUCATION CLASSROOMS 3 sem. hrs.

This course addresses research-based topics relevant to teacher candidates teaching in the elementary education and special education classrooms. Ethical and legal topics; and, aspects of building relationships with professionals, families and the community are presented. Special consideration is given to monitoring and motivating students in elementary classrooms; and, special health care or behavioral considerations and transitions in the special education classrooms. Corequisite: concurrent with ELED495 (6 sem. hrs.) and SPED495 (6 sem. hrs.).

SPED490 INDEPENDENT STUDY 3-12 sem. hrs.**SPED495 STUDENT TEACHING IN SPECIAL EDUCATION 6 or 12 sem. hrs.**

This is the capstone course of the undergraduate Special Education Teacher Certification program P-8. It provides supervised, field-based experience in teaching and other activities expected of special education teachers in Pre-School through grade eight. Prerequisites: Teacher Candidacy, and have taken *Praxis II exams*, and successfully completed all required professional courses for certification.

SPED594 WORKSHOP IN SPECIAL EDUCATION 3 sem. hrs.

In this workshop, the student will gain practical experience with a specialized area of special education. Topics will vary.

SPED610 SECONDARY TRANSITION 3 sem. hrs.

This course introduces the secondary transition process for individuals with disabilities. It includes transition-related: legislation, assessment, planning, and research based instructional strategies designed to teach self-determination and adult independence. Prerequisite: SPED210 and teacher candidacy. Undergraduate students must also have 90 credit hours and permission from instructor.

SPED650 EDUCATIONAL STRATEGIES FOR GIFTED CHILDREN 3 sem. hrs.

Procedures of placement, types of programs, and what methods are used in educating the gifted from kindergarten through 12th is the main thrust of this course. Prerequisites: SPED215 or SPED710.

SPED655 TEACHING READING IN SPECIAL EDUCATION 3 sem. hrs.

This course studies effective procedures for teaching mentally and/or physically disabled students to read. It employs a diagnostic prescriptive approach. Prerequisite: ELED370 Teaching of Reading or its equivalent.

SPED670 TEACHING STRATEGIES FOR CHILDREN WITH MULTIPLE DISABILITIES 3 sem. hrs.

This course provides the student with teaching/learning strategies to be used with individuals with multiple disabilities. This course includes the assessment, curriculum development, teaching and educational intervention strategies, and special health care needs. Prerequisites: SPED215 or SPED710; SPED400.

SPED694 WORKSHOP IN SPECIAL EDUCATION 3 sem. hrs.

In this workshop, the student will gain practical experience with a specialized area of special education. Topics will vary.

SPED695 FIELD EXPERIENCE WITH EXCEPTIONALITIES 3 sem. hrs.

The graduate student participates in the educational programming of exceptional individuals at a level of proficiency that recognizes the graduate student as a co-teacher working under the direct supervision of an on-site cooperating teacher, special education supervisor, or administrative personnel. This internship enhances the graduate student's teaching skills with the exceptional population.

ELEMENTARY, MIDDLE AND SECONDARY EDUCATION DEPARTMENT

Elementary Education Courses

ELED010 ADULT BASIC READING 3 sem. hrs.

This competency-based course is open to freshmen who lack the essential background in reading skills necessary for ELED102 College Reading and Study Skills, to adults who want to improve basic reading skills, and to international students who read English as a second language. The student's reading skills are diagnosed, and individually prescribed programs are planned on the basis of this diagnosis and the student's goals. The student may continue in this course beyond the one-semester period. (It cannot be used to meet graduation requirements; it is graded exclusively on a satisfactory-unsatisfactory basis.)

ELED102 COLLEGE READING AND STUDY SKILLS 3 sem. hrs.

This course helps students improve essential reading and study skills. It emphasizes proper reading habits and attitudes, refines study techniques, and helps students increase reading rates.

ELED103 ADULT ORGANIZATIONAL AND STUDY SKILLS 3 sem. hrs.

This course is designed for the individual who is entering or returning to college. The purpose of the course is to orient the adult to organizational and study skills pertinent to college and adult living. The major areas stressed will include strategies for success, organizing and understanding information, and using study systems.

ELED125 EARLY CHILDHOOD PROGRAM MODELS 1 sem. hr.

This course examines how various educational theories are implemented in early childhood programs. The strengths and weaknesses of these approaches are identified and their relationship to developmentally appropriate practice is studied. Enrollment restricted to permission of instructor.

ELED130 PLANNING FOR DEVELOPMENTALLY APPROPRIATE PRACTICE 1 sem. hr.

This course examines the teacher's role in planning for developmentally appropriate practice in early childhood settings. It addresses designs, types of planning, and considerations for curriculum development.

ELED131 CHILD CARE PROGRAMS 1 sem. hr.

Students examine various types of child care programs and Pennsylvania Department of Public Welfare regulations. Using assessment instruments students evaluate specific child care programs.

ELED132 DEVELOPING A CARING COMMUNITY OF LEARNERS 1 sem. hr.

This course examines the roles and responsibilities of caregivers in developing a caring community in early childhood settings. It addresses strategies for implementing an environment of mutual respect. Prosocial guidance techniques with an emphasis on self-control, respect for others, cooperation, and conflict resolution are investigated.

ELED180 CHILD STUDIES I: FOUNDATIONS 3 sem. hrs.

This course engages students in studying the development of young children. Students use observational techniques to collect and analyze data as they explore the theoretical foundations of child development. Students study theories of cognitive, social, emotional, and physical development related to early education and care, special needs, parenting and cultural contexts. Students with credit in ELED150 may not take ELED180 for credit. Prerequisite: PSYC101.

ELED220 CHILD STUDIES II: TEACHING AND LEARNING 3 sem. hrs.

This course engages students in studying the development of school-age children. Students use observational techniques to collect and analyze data as they explore the theoretical foundations of child development. Theories of cognitive, social, emotional, and physical development related to education, special needs programming, friendships, socialization, and cultural contexts are examined. Students who have taken ELED150 or ELED377 for credit may not take ELED220 for credit. Prerequisite: ELED180.

ELED240 TEACHING CHILDREN'S LITERATURE IN THE ELEMENTARY SCHOOL 3 sem. hrs.

This course develops a knowledge base of children's books, authors, and illustrators, including all genres of traditional and contemporary literature for the pre-service teacher. The course provides a variety of opportunities for active involvement in literary experiences and activities that integrate the use of children's literature into the elementary classroom and curriculum. Students with credit in ELED320 may not take ELED240 for credit.

ELED275 INTRODUCTION TO EARLY CHILDHOOD EDUCATION 3 sem. hrs.

The course examines the nature and special needs of children from birth through age eight and investigates historical and contemporary perspectives of early childhood programs. It addresses family-school-community relationships, developmentally appropriate practices, diverse populations, and future trends for early childhood programs.

ELED278 OBSERVATION IN EARLY CHILDHOOD EDUCATION 3 sem. hrs.

Students will participate in guided observation in selected educational settings. Two class meetings will be devoted to preparation and discussion; observation will occur for two hours in a local school, which is equivalent to one hour of class participation. Students will observe in different grade levels and different schools.

ELED310 INTEGRATING CREATIVE ARTS: ART 3 sem. hrs.

This course presents the philosophy and value of integrating the visual arts within the elementary classroom as well as teaching methods, materials, and strategies for integrating art within the elementary curriculum. The course includes a study of the developmental stages of children's art and requires observations and experiences with children in an elementary classroom or community art program. Students with credit in ELED247 may not take ELED310 for credit.

ELED315 INTEGRATING CREATIVE ARTS: MUSIC 3 sem. hrs.

This course focuses on the development of musical skills and activities including singing, moving creatively, dancing, listening, improvisation, playing instruments and basic music reading. Pedagogical methods include the elements of music as well as integration of music and dance into the core curriculum. This course also analyzes and evaluates materials and techniques for teaching music in the elementary classroom. Students with credit in ELED242 may not take ELED315 for credit.

ELED340 METHODS OF TEACHING SOCIAL STUDIES 3 sem. hrs.

This course introduces pre-service teachers to social studies content and procedures used in the elementary school. Topics include: the philosophy of social studies education, curriculum planning and organization, and instructional methodology. This course also examines knowledge and skills in the related social sciences, current trends and issues, resources, and assessment. Students with credit in ELED331 may not take ELED340 for credit.

ELED341 EARLY CHILDHOOD INTEGRATED CURRICULUM I: LANGUAGE AND LITERACY 3 sem. hrs.

This course examines language as the foundation of all learning and provides a comprehensive study of literacy acquisition of children from birth through age eight. It includes the psychological and sociological factors affecting the development and acquisition of literacy. The course provides a framework for integrating literacy across curricular area and examines adaptations for special learners. Prerequisite: **ELED275**. Note: May not take both ELED542 and ELED341 to fulfill degree requirements.

ELED342 EARLY CHILDHOOD INTEGRATED CURRICULUM II: MATH, SCIENCE AND SOCIAL STUDIES 3 sem. hrs.

This course examines mathematics, science, social studies, health, nutrition, and safety within an integrated curriculum framework in early childhood education. It stresses creating a learning environment with a wide array of developmentally appropriate materials. Prerequisite: **ELED275**. Note: May not take both ELED541 and ELED342 to fulfill degree requirements.

ELED343 EARLY CHILDHOOD INTEGRATED CURRICULUM III: EXPRESSIVE ARTS 3 sem. hrs.

This course covers classroom objectives, methods, and materials for integrating expressive arts throughout all curricular areas in early childhood. Students examine the nature of creativity and means of promoting creative activities for children as well as methods for adapting these activities for special needs children. Prerequisite: **ELED275**. Note: May not take both ELED543 and ELED343 to fulfill degree requirements.

ELED344 BUILDING PARTNERSHIPS THAT SUPPORT YOUNG CHILDREN HOME, PROGRAM AND COMMUNITY 3 sem. hrs.

This course prepares students to work with young children and their families in a variety of settings, including Head Start, public and private preschool programs, child care programs, and family service agencies. The course content focuses on the family's influence on children's early development and education, the diversity among today's families, and the strategies for building supportive partnerships among the family, early childhood programs and the community. Prerequisites: **ELED180** or permission of the instructor.

ELED350 TEACHING AND LEARNING ELEMENTARY SCHOOL MATHEMATICS 3 sem. hrs.

This course prepares pre-service teachers to teach mathematics in the elementary school. It stresses, theory, content, methodology, and practical applications for the classroom and emphasizes a process approach through concrete manipulatives and hands-on experiences. Students with credit in ELED351 may not take ELED350 for credit.

ELED360 METHODS OF TEACHING SCIENCE IN THE ELEMENTARY SCHOOL 3 sem. hrs.

This course prepares teachers to present science in the elementary school. Students demonstrate competency in the philosophy, methodology and learning theory which support effective science instruction. The course employs the use of hands-on instruction to model teaching strategies, curricular resources and classroom management techniques for the classroom. Prerequisite: **two laboratory sciences**.

ELED361 METHODS IN SCIENCE AND MATHEMATICS 6 sem. hrs.

The strategies, technology and materials for teaching science and mathematics in the elementary school are viewed, discussed and experimented with. Simulations or actual demonstration lessons are conducted and viewed on film. The major content in science and mathematics is incorporated into the simulations and in workshop activities.

ELED370 METHODS OF TEACHING READING 3 sem. hrs.

This course introduces the reading processes for developing literacy. It presents theories of the reading process and introduces reading approaches, materials, and a variety of literacy strategies for educating the diverse population of elementary students. It includes opportunities for classroom experience. Students with credit in ELED302 may not take ELED370 for credit. Prerequisite: **ELED240**.

ELED380 ASSESSMENT AND EVALUATION IN ELEMENTARY SCHOOLS 3 sem. hrs.

This course studies assessment techniques used by the teacher for instructional, diagnostic, and administrative purposes, including traditional testing and alternative assessments. It emphasizes the construction of a variety of assessments including rubrics, checklists, and portfolios. Course study includes the interpretation of standardized test results, methods of grading, and the analysis of current report card formats. Students practice solving problems similar to those encountered in elementary classrooms.

ELED390 METHODS OF TEACHING LANGUAGE ARTS 3 sem. hrs.

This course prepares elementary teachers to develop children's abilities in oral and written communication. It provides knowledge concerning instructional procedures and materials for educating the diverse population of elementary students. Course content focuses on teaching language, handwriting, spelling and other fundamentals of oral and written communication and includes opportunities for classroom experience. Students with credit in ELED216 may not take ELED390 for credit. Prerequisite: **ELED240**.

ELED425 FIELD EXPERIENCE 3 or 6 sem. hrs.

This course involves elementary education students with all facets of classroom management and instruction. The students employ reflective decision making when planning, implementing, and assessing lessons appropriate for diverse settings. Students must successfully complete candidacy in teacher education advisement checklist prior to enrollment in this course.

ELED450 PROFESSIONAL PERFORMANCE IN THE ELEMENTARY CLASSROOM 3 sem. hrs.

This course is designed to provide teacher candidates with a research-based understanding of the theories, models, and techniques that build positive family and community collaborations and behavior management skills necessary for today's diverse classroom environments. The course, using a problem-solving approach, will examine issues re-

lated to professional development planning and topics relevant to the critical issues facing teachers of elementary education. Prerequisite: Concurrent with ELED495.

**ELED486 /SPED486
PROFESSIONAL
PERFORMANCE IN
ELEMENTARY AND
SPECIAL
EDUCATION
CLASSROOMS** 3 sem. hrs.

This course addresses research-based topics relevant to teacher candidates teaching in the elementary education and special education classrooms. Ethical and legal topics; and, aspects of building relationships with professionals, families and the community are presented. Special consideration is given to monitoring and motivating students in elementary classrooms; and, special health care or behavioral considerations and transitions in the special education classrooms. Co-requisite: Concurrent with ELED495 (six semester hours) and SPED495 (six semester hours).

**ELED490 INDEPENDENT
STUDY** 3-12 sem. hrs.

**ELED495 STUDENT
TEACHING** 6-12 sem. hrs.

This culminating experience, coordinated and supervised by university faculty, provides opportunities to display competency in professionally informed decision making in elementary and middle schools under the direct, daily supervision of a qualified cooperating teacher. Prerequisites: School of Education candidacy requirements, passed Praxis II testing and clearances.

**ELED503 SPECIAL TOPICS
IN ELEMENTARY
EDUCATION** 1 or 3 sem. hrs.

This course provides opportunity for an in-depth study of a specific topic in Elementary Education.

**ELED505 READING AND
THE ATYPICAL
CHILD** 3 sem. hrs.

This course explores physical and mental problems that may hinder a child's progress in reading. An overview of the prospective problems affecting atypical children is presented with suggested ways of dealing with reading difficulties.

**ELED508 READING
INSTITUTE** 1 or 3 sem. hrs.

This course is designed to meet the needs of non-reading majors who wish to study and investigate special areas of interest related to the field of reading. Specific topics for study and investigation will be determined by the students participating in the Reading Institute. Members of the reading faculty and other faculty will be utilized to develop the specific topics to be considered.

(A maximum of six-semester hours of credit in this course may be used to meet the minimum requirements for the Master's Degree in Elementary Education.)

**ELED510 READING FOR
ADULT BASIC
EDUCATION** 3 sem. hrs.

The purpose of this course is to prepare the reading specialist or other interested persons to work with undereducated or functionally illiterate adults in the development of basic or survival reading skills.

**ELED511 STORYTELLING
AND LITERATURE
IN EARLY
CHILDHOOD
EDUCATION** 3 sem. hrs.

This course prepares students in the theories and techniques of storytelling. It involves an in-depth study of multimedia resources appropriate for early childhood education. Students examine age-appropriate literature, methods of selecting materials, and techniques for sharing literature. The course focuses on developing a story program around a central theme and constructing related storytelling devices. Prerequisite: ELED240 or by permission of instructor.

**ELED515 LANGUAGE,
MOVEMENT, AND
MUSIC IN THE
ELEMENTARY
CLASSROOM** 3 sem. hrs.

This course focuses on creative combinations of language, movement, and music in the elementary classroom. A variety of opportunities is provided for active involvement in poetry writing, creative movement and dance, sound exploration, improvisation, and melody writing. Pedagogical methods extend into all other subjects, creating total integration of curriculum. Prerequisite: ELED315 or permission of instructor.

**ELED521 READING IN THE
MIDDLE GRADES** 3 sem. hrs.

This course is designed particularly for elementary education majors who wish to extend their concentration to the intermediate (middle) level grades. It will be oriented toward teaching of reading in the context of different content areas, the various work and study skills needed, and the specific reading problems that relate to individual subjects. Prerequisite: ELED370.

**ELED530 INFANT/TODDLER
CARE AND
EDUCATION** 3 sem. hrs.

This course provides an in-depth study of the growth and development of infants and toddlers. Students examine the application of child development principles to practices in various types of child care settings. The course also addresses topics such as learning through play, components of quality programs, and the characteristics and responsibilities of caregivers. Students with credit in ELED775 may not take this course for credit. Prerequisite: ELED275.

**ELED560 SCIENCE AND
MATH
EXPERIENCES
FOR YOUNG
CHILDREN: AN
INTEGRATED
APPROACH** 3 sem hrs.

Designed to provide an understanding of the processes and content of science and mathematics and their applications relevant to the education of young children (N-3), this course includes involvement in interactive processes focusing on developmentally appropriate topics and curriculum integration. Thematic units aligned with the Pennsylvania Department of Education's Early Childhood Curriculum Indicators, Pennsylvania Academic Standards, and the Head Start Child Outcomes Framework are modeled and supported by children's literature.

**ELED578 DYNAMICS OF
PRESCHOOL
EDUCATION** 3 sem. hrs.

This course is designed for both undergraduate and graduate students interested in exploring the dynamics of preschool education. General goals, functions, purposes, and objectives of preschool education will be examined in terms of various societal, learner, and cognitive variables. Various kinds of preschool programs will be investigated.

**ELED580 ASSESSMENT AND
EVALUATION IN
EARLY
CHILDHOOD** 3 sem. hrs.

This course identifies appropriate assessment strategies used to evaluate cognitive, physical, and psychosocial development of young children and considers implications for curriculum planning. It explores issues in assessment. Prerequisite: ELED341 or permission of instructor.

**ELED586 COMPARATIVE
STUDIES IN
EDUCATION – U.S.
AND ITALY** 3 sem. hrs.

This course investigates the effect of culture on education, as the schools of any nation are linked to its culture. It covers the influences of political, economic, and social systems from a structural-functional theoretical perspective and compares specifically the educational systems in the United States and in Italy.

ELED587 SPECIAL TOPICS 1 or 3 sem. hrs.

Special topics will be offered each semester. These are undergraduate-level classes. The course offerings each semester can be found in the current university schedule. This course provides for an in-depth study of a specific topic concerning Elementary Education.

**ELED587. ELEMENTARY AND
MIDDLE SCHOOL
CURRICULUM: A
COMPARISON OF
BRITISH AND U.S.
SCHOOLS** 3 sem. hrs.

Taught in England, this course explores current curriculum issues and the nature and scope of curriculum improvement and development in British and American elementary schools. It analyzes curriculum concepts, principles, and organizational patterns; examines the influences of curriculum foundations; and addresses organizational strategies for curriculum innovation and improvement. Not open to those who had ELED786.

Middle Level Courses

**MLED306 LITERACY AND
THE YOUNG
ADOLESCENT** 4 sem. hrs.

This course provides candidates with the opportunity to teach young adolescents to become proficient readers and writers; recognize the diverse reading needs of their students across the curriculum; use assessment tools to inform instruction; provide reading instruction that is developmentally and individually appropriate; and recognize the requirement for providing a wide variety of print and non-print resources in their teaching. This course will fulfill the Stage 2 Field requirement. Prerequisite: Candidacy.

MLED350 CHARACTERISTICS OF MIDDLE LEVEL LEARNERS 3 sem. hrs.

Early adolescence is a distinct period of human growth and development. Young adolescents experience rapid and significant developmental changes. This course examines those unique developmental characteristics including physical, intellectual, emotional/psychological, moral/ethical, and social domains and implications for teaching. This course fulfills Stage 2 Field Experience. Prerequisite: Psychology 101 or permission of instructor.

MLED360 DEVELOPMENTALLY APPROPRIATE MIDDLE LEVEL FEATURES AND PRACTICES 3 sem. hrs.

The middle school philosophy addresses the unique developmental needs of young adolescents. There are specific elements associated with successful teaching of the age group including for example: interdisciplinary teaching, teaming and planning, advisor/advisee, differentiated instruction, learning communities, appropriate extracurricular activities, community involvement, and others. This course introduces all of these elements to the teacher candidate. This course includes a Stage 2 Field Experience. Prerequisite: SEDU 271 or permission of instructor.

MLED381 ASSESSMENT OF LEARNING FOR THE YOUNG ADOLESCENT 3 sem. hrs.

This course investigates the importance of active and student-centered assessment strategies in middle level classrooms. It prepares middle level educators to craft, critique, and administer appropriate assessments, and communicate assessment results for the diverse middle level population. It stresses the relationship of curriculum, assessment, and instruction. This course is part of the professional block and includes Stage 3 Field Experience. Prerequisite: candidacy.

MLED466 INTERGRATED ENGLISH, LANGUAGE ARTS, AND SOCIAL STUDIES FOR THE MIDDLE LEVEL LEARNER 3 sem. hrs.

This course prepares prospective teachers to make informed decisions regarding theories and models of language arts and social studies instruction. It addresses instruction, planning, application of standards, classroom management, assessment, motivational strategies, and techniques for teaching diverse populations. This course is part of professional block and includes Stage 3 Field Experience. Prerequisite: candidacy.

MLED467 INTEGRATED MATHEMATICS AND SCIENCE FOR THE MIDDLE LEVEL LEARNER 3 sem. hrs.

This course utilizes national and state standards; hands-on inquiry investigations; and problem solving activities. Students will use content and assessments when developing and implementing science and mathematics instruction for diverse learners. Theories, content, instruction, and resources for

middle level math and science classrooms will be examined. This course is part of Professional Block and includes Stage 3 Field Experience. Prerequisite: candidacy.

MLED475 MIDDLE LEVEL FIELD 3 sem. hrs.

Teacher candidates will practice teaching skills in a middle level classroom, be provided a variety of experiences, and be supervised by university faculty and a certified cooperating teacher. Teacher candidates will teach integrated lessons developed in block classes. This course is part of professional block and includes Stage 3 Field Experience. Prerequisite: candidacy.

MLED491 MIDDLE LEVEL CLASSROOM COMMUNITY 3 sem. hrs.

This course provides pre-service middle level teacher candidates with research-based theories, models, and techniques for building classroom communities whereby young adolescents are highly involved in worthwhile activities that support their learning. Specific topics associated with young adolescent development are significantly addressed. This course will be taken in conjunction with teacher candidates? Stage 4 Student Teaching Experience. Prerequisite: candidacy.

MLED495 MIDDLE LEVEL STUDENT TEACHING 3 sem. hrs.

This culminating experience is coordinated and supervised by University faculty and provides opportunities for teacher candidates to display competency in teaching young adolescents. (grades 4-8) under the direct daily supervision of a qualified cooperating teacher. This course is part of professional block and provides the Stage 4 Field Experience. Prerequisite: candidacy.

Secondary Education Courses

SEDU183 TECHNOLOGY FOR TEACHING AND LEARNING 3 sem. hrs.

This course is an educational technologies course for pre-service teachers. The content is based on the International Society and Technology in Education (ISTE) standards. Participants will be exposed to a blend of theoretical and practical applications of technologies. There will be a focus on instructional technologies, diverse settings, and differentiated instruction. This course is approved for General Education: Computer Competency.

SEDU271 MULTICULTURALISM IN AMERICAN SCHOOLS 3 sem. hrs.

This course aims to foster an understanding and respect for persons from diverse backgrounds and encourages students to recognize the effects of various influences on the development of education in a multicultural society. The course will explore relevant issues that affect the structure and organization of the American school system and implications for providing quality education to diverse population of students.

SEDU300 URBAN SEMINAR 3 sem. hrs.

This course is designed to provide a first-hand experience in an urban, multicultural setting. Specifically, to provide teacher education majors with an opportunity to gain an understanding of cultural, economic, ethnic, racial, linguistic, and social differences through work with a cooperating teacher and students in an inner city school. The seminar includes a carefully planned combination of school, community, and cultural experiences. Prerequisite: teacher candidacy.

SEDU306 CONTENT LITERACY IN THE MIDDLE AND SECONDARY SCHOOLS 2 sem. hrs.

This course provides candidates with the opportunities to use reading as a tool for learning content. Candidates will learn about the diverse reading needs of students across the curriculum; use assessment tools, differentiate instruction that is developmentally appropriate; and recognize the requirement for providing a wide variety of print and non-print resources. This course provides a Stage 2 Field requirement.

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.

SEDU465 INSTRUCTIONAL TECHNIQUES FOR THE TEACHING OF ENGLISH 3 sem. hrs.

This course prepares prospective teachers to make informed decisions regarding theories and models of English language arts instruction. It addresses instruction, planning, application of standards, classroom management, assessment, motivational strategies, and techniques for teaching diverse populations including English language learners (ELL) and students with special needs. This course is part of professional block and includes Stage 3 Field Experience. Prerequisite: candidacy.

SEDU471 INSTRUCTIONAL TECHNIQUES FOR MATHEMATICS 3 sem. hrs.

This course prepares prospective mathematics teachers to make informed decisions regarding theories and models of mathematics instruction, elements of lesson planning, teacher and student characteristics, learning styles, use of technology and prepared visuals, inclusion of students with special needs and English Language Learners; and addresses problem solving in the selection and delivery of instruction, assessment, and motivational strategies. Prerequisite: Candidacy.

SEDU472 INSTRUCTIONAL TECHNIQUES FOR SECONDARY SCIENCE 3 sem. hrs.

This course prepares prospective science teachers to make informed decisions regarding theories, research, and models of best practice for planning,

instruction, assessment, and motivation including learning styles, use of technology; techniques for teaching students of diverse backgrounds including English language learners (ELL) as well as those with special needs. Prerequisite: Candidacy.

SEDU473 INSTRUCTIONAL TECHNIQUES FOR SOCIAL STUDIES 3 sem. hrs.

This course prepares prospective teachers to make informed decisions regarding theories, research, and models of social studies. It addresses instruction, lesson planning, application of the standards, assessment, motivational strategies, and techniques for teaching students of diverse backgrounds and those with special needs. Graduate students will develop a collection of plans that demonstrate integration of their primary discipline standards with other discipline standards. Prerequisite: Candidacy.

SEDU474 INSTRUCTIONAL TECHNIQUES FOR MODERN FOREIGN LANGUAGES 3 sem. hrs.

This course prepares students to teach foreign languages. It addresses instruction, lesson planning, application of the standards, and motivational strategies for teaching students of diverse backgrounds including English Language Learners and those with special needs. It addresses problem solving in integrated foreign language instruction and motivational strategies. Prerequisite: candidacy.

SEDU475 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.

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.

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.

ENGLISH AND THEATRE ARTS DEPARTMENT

Theatre Arts Courses

THEA200 APPLIED DANCE FOR MUSICAL THEATRE 1 sem. hr.

This one-credit course, which will meet one hour per week, will give students studio experience in dance technique, improvisation, composition and performance. Assessment will be based on proficiency, knowledge and participation. This course may be taken up to three times for credit.

THEA201 VOICE AND MOVEMENT FOR THE ACTOR 3 sem. hrs.

The purpose of this course is to introduce the student to exercises and techniques designed to free the voice and body. Through phonetics, physical isolation and awareness exercises, the student should develop strong expressive vocal and physical instruments for the stage, specifically in the areas of resonance, breath control and movement ranges. Particular attention will be paid to the anatomy of the human vocal mechanism.

THEA202 PLAY ANALYSIS 3 sem. hrs.

This course introduces students to various methods of play analysis. Focus will be placed on dramatic structure, content and meaning of selected plays. A variety of plays from different periods, cultures and genres will be read with emphasis on the different ways in which they may be approached by directors, actors, designers and scholars. This course is approved for General Education Core 1.

THEA203 FUNDAMENTALS OF ACTING 3 sem. hrs.

This course introduces theory and practice in the techniques of acting. It emphasizes styles of acting, dramatic forms, voice and speech, stage movement, improvisation and characterization. This course is approved for General Education – Distribution 1.

THEA211 THEATRE PRACTICUM I 1-3 sem. hrs.

Students contribute to campus productions in the areas of directing, acting, stage management, technical direction, design (sound, set, lights, costumes, makeup), properties, scenic construction, scenic painting, costume technology, dance or running crews, as assigned. This course may be repeated for a maximum of 6 semester hours.

THEA218 INTRODUCTION TO THEATRE 3 sem. hrs.

The intent of this course is to guide the student toward developing a basic understanding and appreciation of drama and theater. This will be accomplished by reading, lecture and discussion, as well as viewing and critiquing of performances. Familiarization with major historical periods, dramatic theory and the roles of each member of a theatrical production team are primary objectives of the course. This course is approved for General Education Core 1.

THEA250 HISTORY OF DANCE IN AMERICAN MUSICAL THEATRE 2 sem. hrs.

This course will introduce students to elements and styles of dance, with an emphasis on how they have been adapted to Broadway and Hollywood musical theatre. The course will also address the history of dance in theater and film, beginning choreography, and notable dancers and choreographers. Students will receive practical instruction in how to prepare for auditions.

THEA300 THEATRE AND STAGE MANAGEMENT 3 sem. hrs.

Theatre and Stage Management is a course designed to acquaint the theatre student with current trends in the area of arts administration. The focus of the course will be on developing effective management strategies to aid in efficient organization of the theatre production, as well as to explore practical methods for theatre operations. The student will participate in projects and activities that will establish basic competencies in organizing, scheduling, marketing, budgeting and grant writing. Prerequisite: **THEA202** and permission of instructor.

THEA309 CHILDREN'S THEATRE 3 sem. hrs.

For those persons whose responsibility will be to work directly with children or with adults in the production of plays for children, this course attempts to solve the problems inherent in youth-centered productions. This course is approved for General Education – Distribution 1.

THEA310 CREATIVE DRAMATICS I 3 sem. hrs.

This course introduces acting, playmaking, and theatre appreciation through improvisation. It fosters imagination, sensory awareness, pantomime, concentration, creative movement, and creativity. It is designed as a prologue to teaching creative drama on the elementary and secondary level. This course is approved for General Education – Distribution 1.

THEA311 STAGECRAFT I 3 sem. hrs.

This course acquaints the student with the rudiments of building, painting, and moving scenery under varied conditions. It includes the operation and maintenance of stage machinery and stage management. This course is approved for General Education – Distribution 1.

THEA312 STAGECRAFT II 3 sem. hrs.

A continuation of **THEA311**. Prerequisite: **THEA311** or permission of the instructor.

THEA313 COSTUME AND MAKE-UP 3 sem. hrs.

This course studies making of costumes, including materials, substitutions, patterns and pattern-drafting, dyeing, aging, and maintenance of wardrobe. It includes the design and application of makeup for theatre and television.

THEA314 STAGE LIGHTING 3 sem. hrs.

This course acquaints students with the requirements for theatre lighting specialists. Basic electricity, as well as lighting for film and television, will be included.

THEA315 SCENE DESIGN 3 sem. hrs.
This course acquaints students with the requirements and the basic skills necessary for scenic designers today with attention to the place of design in theatre historically.

THEA318 HISTORY OF THE THEATRE TO 1642 3 sem. hrs.
This course examines the development of the theatre and theatre art from the earliest times to the closing of the theatres in England in 1642. It studies conditions, the lives of performers, theatre architecture and the development of theatrical convention and dramaturgy. This course is approved for General Education – Distribution 1.

THEA319 HISTORY OF THEATRE FROM 1660 TO PRESENT 3 sem. hrs.
This course examines the continuing development of theatre art from the Restoration to the present. Equal attention is given to dramaturgy, production conditions, theatre architecture, and the means of the actor. This course is approved for General Education – Distribution 1.

THEA351 PLAYWRITING 3 sem. hrs.
This course introduces the student to the theory and practice of dramatic writing, the reading of selected plays and texts, and the writing of various types of dramatic scenes and a one-act play.

THEA397 STUDIES IN DRAMA 3 sem. hrs.

REPEATABLE UP TO 12 HOURS.

A special topics course in the study of theatrical techniques and dramatic literature beyond the content of regular courses. This 3 semester hour course is repeatable up to 12 hours. Prerequisite: permission of instructor.

THEA403 ADVANCED ACTING 3 sem. hrs.
A course designed to continue in depth the training of the student actor. The course focuses on the actor's total means of expression, dealing with both the inner and external technique. Prerequisite: **THEA203** or consent of the instructor.

THEA405 DIRECTING 3 sem. hrs.
This course explores the elements of play directing, including choice of play, methods of directing, use of the stage, and creation of atmosphere. Prerequisite: **THEA202**, **THEA203** and **THEA311**.

THEA406 DIRECTING II 3 sem. hrs.
A continuation of **THEA405**. This course covers the problems of directing plays from selected periods of theatrical history. Students will be responsible for the presentation of scenes from plays of different periods. Prerequisite: **THEA405**.

THEA409 HIGH SCHOOL PLAY PRODUCTION 3 sem. hrs.
For persons who may direct high school plays, this course includes play selections, financing, production techniques, and other problems associated with that age group.

THEA411 THEATRE PRACTICUM II 1-3 sem. hrs.
Students contribute to campus productions in the areas of directing, acting, stage management, technical direction, design (sound, set, lights, costumes,

makeup), properties, scenic construction and scene painting, costume technology, dance and running crews. This course may be repeated for a maximum of 9 semester hours. Prerequisite: **THEA 211**.

THEA412 DRAMA WORKSHOP II 3 sem. hrs.
A continuation of **THEA411**.

THEA419 DRAMATIC THEORY AND CRITICISM 3 sem. hrs.
A study of dramatic theories and dramatic criticism from Aristotle to the present with emphasis on the understanding and use of dramatic theory through study and written critiques.

THEA490 INDEPENDENT STUDY IN DRAMA 2-5 sem. hrs.

THEA495 INTERNSHIP IN THEATRE 3-15 sem. hrs.
This course provides an opportunity for students to gain experience with a professional theatre company. The standard EUP University internship policy and requirements will be followed. Prerequisites: See internship Director. Up to 3 credits accepted as THEA electives with the balance being Free Electives.

Linguistics Courses

ENGL013 ADVANCED INTENSIVE ENGLISH 3 sem. hrs.
An advanced course in English as a foreign language for international students who have successfully completed the requirements of **ENGL012** or who have obtained an 80 or more modified score on the Michigan English Language Proficiency Test or other equivalent instrument. Students reaching this level of proficiency might be well served by also enrolling in **ELED102**. This course is offered on a Satisfactory/Unsatisfactory grading basis only, and the credits do not count toward graduation.

ENGL114 LANGUAGE IN HUMAN LIFE 3 sem. hrs.
This course acquaints students with four areas in linguistics: animal communication systems, language and the mind, language in the linguistic community, and computational linguistics. Students learn about current theoretical issues, problems and debates. The course also addresses scientific application of research information in each area.

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.

ENGL211 TRADITIONAL GRAMMAR 3 sem. hrs.
This course provides students with an intensified study of English grammar based upon traditional principles and terminology to aid in the development of both knowledge and performance skills.

ENGL213 THE LANGUAGE OF THE GODDESS 3 sem. hrs.
This course acquaints students with the study of ancient and modern goddess cultures through approaches in anthropological linguistics. The concept of "goddess," the centrality of the female, continues to be significant to many cultures and places where she has been venerated for ages. In others, she is being revitalized and reconstructed. The course content includes: a survey of ancient and modern languages and cultures; an analysis of goddess texts, lore, archetypes and symbolism; and an assessment of cultural developments of the feminine principle across the world.

ENGL521 HISTORY OF THE ENGLISH LANGUAGE 3 sem. hrs.
A study of the development of the English language from Anglo-Saxon times to the present with emphasis on the historical continuity of these changes.

Literature Courses

Introductory Courses: **ENGL115**, **ENGL116**, **ENGL117**, **ENGL118**, **ENGL119**, **ENGL120**, **ENGL253**, **ENGL355**, **ENGL257**, **ENGL288**
While intended for non-English majors seeking credit toward General Education Requirements, majors may take these courses for elective credit. They will not count toward an English major in any program.

ENGL115 INTRODUCTION TO LITERATURE 3 sem. hrs.
This course introduces three major literary genres (drama, poetry, and prose fiction) with particular emphasis on their fundamental formal elements and conventions. Readings illustrate these elements and conventions, and enhance student appreciation and analysis of the artistic expressions. This course is approved for General Education – Core 1.

ENGL116 AMERICAN PROSE CLASSICS 3 sem. hrs.
Intended for non-majors, this course examines acknowledged masterpieces of American prose from the mid 19th century to the present. Students read selected works involving major social themes and concerns, and study the context of the cultural forces that inspired them. This course is approved for General Education – Core 3.

ENGL117 INTRODUCTION TO FICTION 3 sem. hrs.
This course introduces prose fiction. Students will become familiar with various narrative traditions; read and critically analyze short fiction, novellas, and novels; learn the functions of the elements of fiction; and compose a piece of short fiction or otherwise express their aesthetic appreciation of the genre. This course is approved for Core 1: Artistic Expression.

ENGL118 INTRODUCTION TO POETRY 3 sem. hrs.
This course introduces students to the forms, themes, and the creative process of traditional and contemporary poetry, emphasizing written appreciation and formal analysis. This course is approved for General Education – Core 1.

- ENGL119 INTRODUCTION TO CREATIVE NON-FICTION** 3 sem. hrs.
Creative Nonfiction focuses on critical reading and analysis of literary nonfiction, including New Journalism, the familiar essay, memoir, biography, and the ?nonfiction novel.? Students learn to recognize variations and originality of style, voice, and point of view of key writers of the genre. Attention will be paid to the way in which history, politics, and society have influenced nonfiction writing. This course is approved for General Education Core 1.
- ENGL201 AMERICAN LITERATURE SURVEY I (ORIGINS-1865)** 3 sem. hrs.
An examination of major trends in American literature from its beginnings through 1865, emphasizing representative figures and their relationship to major literary movements and cultural developments.
- ENGL202 AMERICAN LITERATURE SURVEY II (1865-PRESENT)** 3 sem. hrs.
An examination of major trends in American literature from 1865 to the present, emphasizing representative figures and their relationship to major literary movements and cultural developments.
- ENGL205 MULTI-ETHNIC AMERICAN LITERATURE** 3 sem. hrs.
This course in ethnic literature includes representative works and writers from Native American, Hispanic, Asian American and African American communities, and traces their relationship to cultural concepts and literary movements. This course is approved for General Education – Core 5.
- ENGL209 FOUNDATIONS FOR LITERARY STUDY** 3 sem. hrs.
This course has four goals: to help students learn how to explicate texts and analyze various aspects of literary form; to help students understand English as a discipline; to help students acquire skills for writing about literature; and to help orient students to the English major at Edinboro University. Central to the course is a survey of the practice of literary criticism. This course is open to English and secondary education-English majors only.
- 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 ROMATICS 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.
- ENGL257 SCIENCE FICTION** 3 sem. hrs.
This course introduces students to the historical development of science fiction from the imaginative speculations of the classic Greeks to the most contemporary trends.
- 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.
- ENGL288 LITERATURE OF MYSTERY AND DETECTION** 3 sem. hrs.
This course acquaints students with mystery and detective fiction from its beginning to the present, through an examination via literature and film of early and modern classics of the genre.
- ENGL309 AFRICAN AMERICAN LITERATURE I: UP TO 1929** 3 sem. hrs.
This course studies African American literature from its beginnings to one of its greatest moments during the Harlem Renaissance. It emphasizes representative works and writers such as Phyllis Wheatley, Frederick Douglas, Langston Hughes, and Zora Neale Hurston, and traces their relationships to major literary movements and cultural developments. This course is approved for General Education – Distribution 1.
- ENGL310 AFRICAN AMERICAN LITERATURE II: AFTER 1930** 3 sem. hrs.
This course studies African American literature from 1930 to the present, and emphasizes representative works and writers such as Wright, Ellison, Morrison, and Reed. It traces their relationships to major literary movements and cultural developments. This course is approved for General Education – Distribution 1.
- ENGL311 LITERATURE BY WOMEN** 3 sem. hrs.
This course on literature by women includes representative works and writers and addresses recent changes in the canon. This course is approved for General Education – Distribution 1.
- ENGL314 LATIN AMERICAN POLITICAL FICTION** 3 sem. hrs.
This course looks at fictional representations of power, politics, and government in Latin America in order to better understand that world area's literary and political cultures. Prerequisite: ENGL102. This course approved for General Education – Distribution 1.
- ENGL315 SHAKESPEARE I** 3 sem. hrs.
An examination of selected comedies, histories, and tragedies from 1592-1602. This course is approved for General Education – Distribution 1.
- ENGL316 SHORT STORY** 3 sem. hrs.
This course examines the short story as a literary form. By studying short stories written by national and international artists and representing a culturally diverse range of subjects, types, methods, and styles, students increase their understanding and appreciation of the short story as a unique form of literary art. This course is approved for General Education – Distribution 1.
- ENGL319 SHAKESPEARE II** 3 sem. hrs.
This course examines the plays after 1602, emphasizing historical, social, literary, textual, dramatic, and stylistic considerations. This course is approved for General Education – Distribution 1.
- ENGL325 LITERATURE OF THE BIBLE I** 3 sem. hrs.
This course offers a literary study of various genres from the Old Testament: myth, poetry, history, short stories, wisdom literature, and prophecy. This course is approved for General Education – Distribution 1.
- ENGL326 LITERATURE OF THE BIBLE II** 3 sem. hrs.
This course offers a literary study of selected texts from the Apocrypha, the New Testament, and extra canonical Christian literature contemporary with the New Testament. The course is independent of ENGL325 and may be taken alone. This course is approved for General Education – Distribution 1.
- ENGL330 LITERATURE AND FILM** 3 sem. hrs.
This course examines the variety of relationships that exists between literary genres and film adaptations, focusing on fundamental similarities and differences among the genres, the adjustments necessary to transform literary works for the screen, and the major factors that determine the particular character of a film adaptation. This course is approved for General Education – Distribution 1.
- ENGL332, 333, 334 TOPICS IN CLASSICAL, MEDIEVAL AND RENAISSANCE LITERATURE** 3 sem. hrs.
This course will examine a framed consideration of literature written by authors during the Classical, Medieval and Renaissance periods. The framing device might be geographical, historical, thematic, cultural, or discipline-specific. Prerequisites: ENGL260 or ENGL261. Course is open to English and secondary education-English majors only or by permission of the instructor.
- ENGL335, 336, 337 TOPICS IN BRITISH LITERATURE** 3 sem. hrs.
This course will examine a framed consideration of literature written by British authors. The framing device might be geographical, historical, thematic, cultural, or discipline-specific. Prerequisite: ENGL241 or ENGL242. This course is open to majors in English and secondary education-English or by permission of the 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. Course is open to English and secondary education-English majors or by permission of the instructor. Prerequisites: ENGL201 or ENGL202.

**ENGL341, TOPICS IN WORLD
342, 343 LITERATURE 3 sem. hrs.**

This course will examine a framed consideration of literature written by authors who are of neither British nor U.S. origin. The framing device might be geographical, historical, thematic, cultural, or discipline-specific.

**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.

**ENGL365 GENDER AND
IDENTITY IN
LITERATURE 3 sem. hrs.**

This course examines the various ways literature reflects, constructs, reinforces, and challenges gender roles. The course explores "masculinity" and "femininity," and in exploring several different feminist approaches to literature and culture suggests that gender identity is always socially constructed and historically specific. Ultimately, the course contends that understanding gender as socially constructed rather than biologically given is empowering for society as a whole. Prerequisite: ENGL101. This course is approved for General Education – Distribution 1.

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
398 LANGUAGE AND
LITERATURE 3 sem. hrs.**

Individual courses designed primarily for the non-English major to focus on popular topics of language or literature.

**ENGL411, AUTHORS IN
412 CLASSICAL,
MEDIÉVAL 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. This course is restricted to English and secondary education-English majors or by permission of the instructor.

**ENGL413, AUTHORS IN
414 BRITISH
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. This course is restricted to English and secondary education-English majors or by permission of the instructor.

**ENGL415, AUTHORS IN
416 AMERICAN
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. This course is restricted to English and secondary education-English majors or by permission of the instructor.

**ENGL420 FEMINIST
LITERARY
CRITICISM 3 sem. hrs.**

This course in feminist literary criticism includes representative works and writers from all approaches to this field, and traces their relationship to cultural concepts and literary movements.

**ENGL450 INTERNSHIPS IN
COMMUNICATION
ARTS 1-12 sem. hrs.**

Students gain professional experience in business, government, or industry under the supervision of the department. Permission of the chairperson is required.

**ENGL489 LITERARY
CRITICISM:
THEORY 3 sem. hrs.**

This course is a study of the origins and development of the theory of literary criticism using major writings.

**ENGL490 INDEPENDENT
STUDY 3-6 sem. hrs.**

The independent study program aims to serve those students whose scholarly interest seems clearly adapted to independent work. Students may earn credit for work performed outside the classroom requirements of any specific course in the curriculum. Permission of the chairperson is required.

**ENGL499 THESIS SEMINAR
IN LITERATURE 3 sem. hrs.**

This course is designed to assist the student in understanding the role of literary research. The content of the course will rotate according to the expertise of the instructor. It will serve as a capstone course for English majors to demonstrate the variety of knowledge that they have collected and create a professional length study on the topic on the seminar. This course is restricted to English and secondary education-English majors or by permission of the instructor.

**ENGL545 ADOLESCENT
LITERATURE: THE
PROBLEM NOVEL 3 sem. hrs.**

This course examines the historical development of adolescent literature, literature appropriate for use in grades 5-12.

Writing Courses

**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 SPECIALIZED
COLLEGE
WRITING AND
RESEARCH SKILLS 3 sem. hrs.**

This competency-based course is a practical study of the methodology of research with emphasis on library usage, research techniques, organizational principles, documentation, and manuscript form. In this course, students develop the writing skills needed to prepare various specialized writing assignments including the fully documented library research paper, which is the major writing form of the course. Prerequisite: Successful completion of ENGL101 or equivalent competency. This course is approved for General Education – Skills.

**ENGL103 COLLEGE
WRITING SKILLS –
ADVANCED 3 sem. hrs.**

This advanced competency-based course will require the student to develop the writing skills necessary to prepare superior college writing assignments. Student writing will focus on the development and organization of ideas in paragraphs and full-length critical and analytical papers. This course will require the student to achieve the level of skills necessary to progress to the more advanced techniques of writing research papers in ENGL104. Prerequisite: University Testing Placement. This course is approved for General Education – Skills.

**ENGL104 SPECIALIZED
COLLEGE
WRITING AND
RESEARCH SKILLS
– ADVANCED 3 sem. hrs.**

This advanced competency-based course is an intensive study and implementation of the techniques of critical research with emphasis on analysis, the principles of organization and synthesis, documentation, and manuscript form. The students will be required to compose longer papers with the fully documented research paper being the major writing form of the course. Upon successful completion of this course, the student will be capable of demonstrating superior college writing and research ability.

ties in all curricula. Prerequisite: Successful completion of **ENGL103**. This course is approved for General Education – Skills.

ENGL301 CREATIVE WRITING 3 sem. hrs.

This course provides an introduction to the writing of poetry, fiction, and drama. Students will generate and revise rough drafts in each genre; learn the formal similarities and differences among them; read and discuss exemplary poems, stories, and plays; and further develop critical thinking and writing skills introduced in ENGL101. This course is approved for Distribution 1. Prerequisite: ENGL101.

ENGL321 LEGAL WRITING 3 sem. hrs.

A study of argumentative and expository report writing, designed primarily for undergraduate criminal justice and pre-law students, with emphasis on clarity of organization about quasi-legal problems with attention given to style, diction, and grammar. Prerequisite: **ENGL101**.

ENGL322 SCREEN WRITING 3 sem. hrs.

This course covers dramatic theory, sample scripts, and sample films and videos. Students write short dramatic screenplays correctly formatted for the medium of their choice. Prerequisite: **ENGL101, ENGL301**.

ENGL370 BUSINESS ENGLISH 3 sem. hrs.

This course is an introduction to writing business letters and reports. It will provide extensive practice in writing, reviewing, and revising. Prerequisites: **ENGL101 and 102**. This course is approved for General Education – Distribution 1.

ENGL385 ADVANCED COMPOSITION 3 sem. hrs.

This course focuses on advanced expository writing. It studies rhetorical techniques and their practical application; issues of audience, style, and organization; and the composing/revising process. Prerequisite: **ENGL101**. This course is approved for General Education – Distribution 1.

ENGL402 FICTION WORKSHOP 3 sem. hrs.

Building on a foundation laid in ENGL301, students in this course compose full-length short stories; analyze the work of contemporary and canonical practitioners of the form; and critique the work-in-progress of their colleagues. Prerequisite: **ENGL301**.

ENGL403 POETRY WORKSHOP 3 sem. hrs.

Building on a foundation laid in ENGL301, students enrolled in this course compile a portfolio of original poetry; analyze the work of contemporary and canonical practitioners of the form; reacquaint themselves with the power of oral recitation; undertake a practical study of poetic form and rhetoric; and critique the work-in-progress of their colleagues. Prerequisite: **ENGL301**.

ENGL404 TECHNICAL WRITING 3 sem. hrs.

A study of exposition adapted to the needs of students in sciences and engineering, using analytic written presentations, correspondence, technical reports, and scientific papers. This course is approved for General Education – Distribution 1. Prerequisite: **ENGL102**.

ENGL410 ADVANCED TECHNICAL WRITING 3 sem. hrs.

This course provides intensive instruction in designing, writing, and editing extended technical documents. Prerequisite: **ENGL404** or permission of instructor. This course is approved for General Education – Computer Competency.

ENGL440 ESSAY WORKSHOP 3 sem. hrs.

Personal essays – short nonfiction pieces based on the writer's own experiences – are part of a rich literary tradition. In this course, students compose original essays that receive commentary from the instructor and their peers. To situate students' writing within a literary context, the course includes a brief survey of the history of the personal essay, focusing on selected authors from the 16th century to the present. Prerequisite: **ENGL385**.

ENGL441 ADVANCED FICTION WRITING 3 sem. hrs.

Building on a foundation laid earlier in the writing concentration, students in this course develop their ability to prepare full-length novella manuscripts or extensive portions of a fully realized novel. Students will also refine their critical thinking, speaking, and writing skills as they respond to one another's writings, the lengthy fiction written by masters of the art, and current literary works. Prerequisite: **ENGL402**.

ENGL442 ADVANCED POETRY WRITING 3 sem. hrs.

Building on a foundation laid earlier in the writing concentration, students in this course develop their ability to match poetic form to subject matter; deepen their understanding of how poetic tradition influences poetic practice; and refine their critical thinking, speaking, and writing skills as they respond to one another's poems, poems published in current literary periodicals. Prerequisite: **ENGL403**.

ENGL443 ADVANCED CREATIVE NONFICTION 3 sem. hrs.

This course combines the information-gathering techniques of the nonfiction writer – observation, research, and recollection – with the stylistic and rhetorical techniques of the novelist or short-story writer – setting, conflict, character development, narrative voice, dialogue, and metaphor. This course will acquaint students with the work of contemporary creative nonfiction writers, and will require students to draft, revise and edit several extended-length nonfiction prose pieces, with the ultimate objective of publication. Prerequisite: **ENGL440**.

ENGL444 ADVANCED SCREENWRITING 3 sem. hrs.

Building on a foundation laid earlier in the writing concentration, students in this course develop their ability to complete a feature-length screenplay using the accepted professional format and standards. Prerequisite: **ENGL322**.

ENGL498 THESIS SEMINAR IN WRITING 3 sem. hrs.

This course provides English/writing majors the opportunity to demonstrate professional expertise by planning a semester-long project in a particular writing genre; making a formal proposal to the seminar as a whole; participating in regularly scheduled 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. Course is open to English majors – writing concentration only.

ENGL525 COMPOSITION THEORY 3 sem. hrs.

This course introduces students to the theories and research informing the writing process and the teaching of that process. It also examines the relationship of grammar instruction to the writing process. Prerequisites: **ENGL101/103 and 102/104** or equivalent.

FOREIGN LANGUAGES DEPARTMENT

French Courses

FREN100 INTRODUCTION TO FRANCE AND THE FRENCH 3 sem. hrs.

This course presents the high points of historical-social progression from earliest days to the present. This course provides the student with an appreciation of the French contribution to the modern world through the discussion of French geography, history, government and culture. Lecture is interspersed with film based on documentary topics or on works of French literature. This course is approved for General Education – Core 5.

FREN101 FIRST COURSE IN FRENCH 3 sem. hrs.

This course introduces the structures of the French language in a cultural context. The student will not only develop the basic skills for communication in the language but also a fundamental awareness of the cultural diversity of the French-speaking world. This course is approved for General Education – Core 5.

FREN102 SECOND COURSE IN FRENCH 3 sem. hrs.

This course reviews the basic language structures presented in FREN101 and continues the survey of the complete set of French grammatical and syntactical structures. Prerequisite: **FREN101** or equivalent. This course is approved for General Education – Distribution 1.

FREN201 THIRD COURSE IN FRENCH 3 sem. hrs.

This course offers an in-depth review of the four basic skills (listening, speaking, reading, writing) with the emphasis on grammar and syntax as tools to understanding and communicating written and oral French. Prerequisite: **FREN102** or equivalent. This course is approved for General Education – Distribution 1.

FREN202 FOURTH COURSE IN FRENCH 3 sem. hrs.

This course is a continuation of FREN201, although the two courses do not have to be taken in sequence. This is an in-depth review of the four basic skills (listening, speaking, reading, writing) with an emphasis on grammar and syntax as tools to under-

standing and communicating written and oral French. Prerequisite: **FREN102** or equivalent. This course is approved for General Education – Distribution 1.

FREN307 FRENCH COMPOSITION 3 sem. hrs.

This course develops understanding and appreciation of the structure and style of written French. By example, analysis, and practice, students learn to write correctly and creatively in French. Prerequisite: **FREN202** or permission of the instructor.

FREN308 FRENCH CONVERSATION 3 sem. hrs.

This course offers students practice in spoken French: review of pronunciation and intonation patterns, preparation and delivery of dialogues and talks on topical subjects. Prerequisite: **FREN307** or permission of the instructor.

FREN332 FRENCH CIVILIZATION 3 sem. hrs.

This course provides the student with an appreciation of the French contribution to the modern world through the study in the French language of French geography, history, government, literature, the arts and sciences. Prerequisite: Permission of staff.

FREN353 THE FRENCH NOVEL IN ENGLISH 3 sem. hrs.

This course presents a selection of French novels in translation representing various movements and literary periods in French literature, from the 17th to the 20th centuries.

FREN390- SPECIAL TOPICS: 393 FRENCH 1-12 sem. hrs.

This series consists of a variety of short courses in specialized areas beyond the content of regular courses. Students may take as many or as few of such courses as they wish. Credit will be granted at the equivalence of 15-class hours a semester, plus requisite examination procedures. A list of courses offered, subject to changes, is maintained by the head of the Department.

FREN407 ADVANCED FRENCH CONVERSATION AND COMPOSITION: INTRODUCTION TO STYLISTICS 3 sem. hrs.

Review of the finer points of French grammar, syntax, idiomatic constructions, word formation. Original compositions. Strongly recommended for future teachers. Prerequisite: **FREN202** or consent of instructor.

FREN451 SURVEY OF FRENCH LITERATURE 3 sem. hrs.

This course introduces the student to the great movements of French literature from its beginnings to the present, with readings and discussion of representative works. Prerequisite: Permission of the staff.

FREN490- FRENCH 493 3-6 sem. hrs.

For students who need extra credit for the major or minor field and/or state certification. Open to students having a 3.0 average or better in French and

with the consent of the department chairperson and the instructor concerned. Written and oral reports. May be repeated for 3 additional credits with maximum of 6.

German Courses

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.

Translation of professional literature into English from German scientific, technical, and humanistic areas. The more difficult and sophisticated aspects of German-to-English translation will be stressed. Prerequisite: the Reading of German course (**GERM103**) or one year of college level German.

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.

A historic survey of German literature from the beginnings to 1797. This course is designed to follow **GERM351**. Conducted in German. Prerequisite: **GERM351** or consent of instructor.

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 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.

Polish Courses

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.

Russian Courses

RUSS100 INTRODUCTION TO RUSSIAN CULTURE 3 sem. hrs.

This introductory course provides an overview of the culture, art, history and social mores of the Russians. Taught entirely in English, RUSS100 focuses upon the most important areas of Russia and the Russian people. Appropriate films, readings, guest speakers, and discussions supplement the lecture. This course is approved for General Education – Core 5.

RUSS101 FIRST COURSE RUSSIAN 3 sem. hrs.

This course introduces the structures of the Russian language in a cultural context. The student will develop not only the basic skills necessary for

communication in the language but also a fundamental awareness of the cultural diversity of the Russian-speaking world. This course is approved for General Education – Core 5.

RUSS102 SECOND COURSE RUSSIAN 3 sem. hrs.

This course is intended to continue the basic introduction to the Russian language begun in RL101, First Course Russian. In this course, the student continues his development in the areas of vocabulary, the Russian case system, the Russian verb system - in particular, the problems of aspect and directional verbs, and the systems of adjectives and adverbs. This course will also introduce a considerable amount of cultural material. Prerequisite: **RUSS101**. This course is approved for General Education – Distribution 1.

RUSS201 THIRD COURSE RUSSIAN 3 sem. hrs.

After a review of basic principles this course continues to develop understanding and skill in using more complex elements of the Russian language and in recognizing and mastering their use in both written and spoken form. Prerequisite: **RUSS102** or equivalent. This course is approved for General Education – Distribution 1.

RUSS202 FOURTH COURSE RUSSIAN 3 sem. hrs.

This course completes the overview of the principles and structures of the Russian language. The student should have achieved the ability to communicate both orally and in written Russian using basic structures in general Russian usage by the end of the fourth semester. Prerequisite: **RUSS201** or equivalent. This course is approved for General Education – Distribution 1.

RUSS307 RUSSIAN CONVERSATION AND COMPOSITION I 3 sem. hrs.

This course offers students practice in spoken and written Russian. Review of pronunciation and grammar. Written themes, preparation, and delivery of dialogues and talks on topical subjects. Prerequisite: **RUSS202** or equivalent.

RUSS308 RUSSIAN CONVERSATION AND COMPOSITION II 3 sem. hrs.

Continuation of **RUSS307**. This course offers added practice in spoken and written Russian. Pronunciation and grammar will be reviewed. Written themes will be submitted. The student prepares and delivers dialogues and talks on topical subjects. Prerequisite: **RUSS307** or consent of instructor.

RUSS331 RUSSIAN CULTURE I 3 sem. hrs.

This course provides for the enlightened understanding of the Russian people and Russian culture, through the study, in the Russian language, of readings in Russian geography, history, government, social mores, literature, and the arts up to 1917. It complements, but does not replace, courses offered by other departments up to 1917 regarding Russia and the USSR. Prerequisite: **RUSS202**.

RUSS332 RUSSIAN CULTURE II 3 sem. hrs.

This course provides for the continued study of the Russian people and Russian culture, through examination and discussion, in Russian, of readings in Russian geography, history, government, social mores, literature, and the fine arts from 1917 to date. It complements, but does not replace, courses offered by other departments regarding Russia and the USSR. Prerequisite: **RUSS202**.

RUSS351 SURVEY OF RUSSIAN LITERATURE I 3 sem. hrs.

This course introduces the student to masterpieces of pre-revolutionary Russian prose and poetry. Representative works are read and discussed. Written and oral reports are submitted. The course is conducted in Russian. Prerequisite: **RUSS202** or equivalent.

RUSS352 SURVEY OF RUSSIAN LITERATURE II 3 sem. hrs.

This course introduces the student to masterpieces of post-revolutionary Soviet prose and poetry. Representative works are read and discussed. Written and oral reports are submitted. The course is conducted in Russian. Prerequisite: **RUSS202** or equivalent.

RUSS353 RUSSIAN LITERATURE IN ENGLISH 3 sem. hrs.

Primarily for non-Russian majors, this course introduces a systematic study of the background and main currents of Russian literary creativity. Writers such as Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov receive major emphasis.

RUSS390 SPECIAL TOPICS: RUSSIAN 1-12 sem. hrs.

This series consists of a variety of short courses in specialized areas beyond the content of regular courses. Students may take as many or as few of such courses as they wish. Credit will be granted at the equivalence of 15 class hours a semester hour, plus requisite examination procedures. A list of courses offered, subject to changes, is maintained by the head of the Department.

RUSS490- INDEPENDENT STUDY IN RUSSIAN 1-12 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

Spanish Courses

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.

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 offers students practice in spoken and written Spanish. Review of pronunciation and grammar. Written themes, preparation, and deliverance of dialogues and talks on topical subjects. Prerequisite: **SPAN202** or equivalent. This course is approved for General Education – Distribution 1.

SPAN308 SPANISH CONVERSATION AND COMPOSITION II 3 sem. hrs.

This course is for students who need practice in spoken and written Spanish. It consists of a review of pronunciation and grammar, written themes, preparation, and delivery of dialogues and talks on topical subjects. Prerequisite: **SPAN202** or equivalent. This course is approved for General Education – Distribution 1.

SPAN331 SPANISH CIVILIZATION 3 sem. hrs.

Study of the significant aspects of culture and civilization in Spain. Lectures and discussions in Spanish, written and oral reports. Prerequisite: **SPAN202** or equivalent.

SPAN335 SPANISH-AMERICAN CULTURE 3 sem. hrs.

Conducted in Spanish on a topic-discussion basis, this course consists of a study of the significant aspects of present day life in Spanish America. It

supplements, but does not replace, courses offered by other departments regarding Spanish America. Prerequisite: **SPAN202** or consent of the instructor.

SPAN341 MEXICO 3 sem. hrs.

An advanced-level Spanish course designed to familiarize the student with Mexican history and culture. Pre-Colombian cultures, the conquest, the colonial period, independence, the revolution of 1910, and contemporary society will be studied. Lectures and discussions will be in Spanish. Prerequisite: **SPAN307** and **SPAN308**.

SPAN351 SURVEY OF SPANISH LITERATURE I 3 sem. hrs.

This course, conducted in Spanish, is a survey of the major movements and figures of Spanish literature from its tenth century beginnings through the eighteenth century with a study of representative works from each literary period. Prerequisite: **SPAN307** or **SPAN308** or equivalent.

SPAN352 SURVEY OF SPANISH LITERATURE II 3 sem. hrs.

This course is a study of representative works, movements, and figures of Spanish peninsular literature from the nineteenth and twentieth centuries. Prerequisite: **SPAN307** or **SPAN308** or equivalent.

SPAN353 MODERN LATIN AMERICAN LITERATURE IN TRANSLATION 3 sem. hrs.

This course examines English translations of popular literary works by selected modern Latin American authors. It considers such literary currents as magical realism, writing from exile, and feminine discourse. This course is approved for General Education – Distribution 1.

SPAN355 SURVEY OF SPANISH AMERICAN LITERATURE I 3 sem. hrs.

This course presents a study of the representative works of major Spanish-American literary figures encompassing the chronicle, the short story, the novel, the essay, and poetry. The readings span the time period from the pre-Columbian epoch through the 18th century. Prerequisites: **SPAN307** or **SPAN308** or demonstrated proficiency in the language.

SPAN356 SURVEY OF SPANISH AMERICAN LITERATURE II 3 sem. hrs.

This is a survey course in Spanish-American literature with major emphasis on the works, authors, themes, and cultural implications of the 19th and 20th centuries. Prerequisite: **SPAN307** or **SPAN308** or demonstrated proficiency in the language.

SPAN390-391 SPECIAL TOPICS: SPANISH 1-12 sem. hrs.

These topics represent a variety of short courses in specialized areas beyond the content of regular courses. Examples are gestures, slang, children's songs and games, folk songs, art, children's literature, and similar cultural activities. One semester hour credit is granted on successful completion of each short course. For Spanish majors, only 9 semester hours credit may count toward degree

requirements in Spanish, but additional short courses may be taken as electives. A list of the topics of the short courses is maintained by the chairperson of the department.

SPAN407 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 sem. hrs.

Review of finer points of Spanish grammar, syntax, idiomatic construction, and work formation. Original compositions. Strongly recommended for future teachers. Prerequisite: **SPAN307** or consent of instructor.

SPAN481 THE SPANISH DRAMA 3 sem. hrs.

Intensive study of the classical romantic, realistic, and contemporary periods. Independent readings and reports. Prerequisite: **SPAN351** or **SPAN352** or consent of instructor.

SPAN490-492 INDEPENDENT STUDY IN 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.

GEOSCIENCES DEPARTMENT

Geography Courses

GEOG101 WORLD GEOGRAPHY 3 sem. hrs.

This course includes a survey of geography, organized to develop a knowledge and appreciation of factors of geographic environment and the cultural adjustment to them. World patterns of geographic phenomena are included. This course 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 also examined and interpreted. This 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.

GEOG222 CLIMATOLOGY 3 sem. hrs.

Study of climate elements and controls and man's utilization of land in terms of its climate. The physical aspects of the atmosphere and regional characteristics of climate are investigated.

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 is 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.

GEOG300 PRINCIPLES OF URBAN AND REGIONAL PLANNING 3 sem. hrs.

This course introduces the fundamental principles, concepts, theories and practices of urban and regional planning within the framework of both private and public sector engagement. It examines the historical evolution, methodologies, practices and problems of urban and regional planning in both developed and developing areas. Prerequisite: **GEOG101** or **GEOG130** or permission of instructor.

GEOG305 BASIC CARTOGRAPHY 3 sem. hrs.

This introduction to the techniques of mapmaking and map usage includes transformations and symbolic representation of physical and statistical data. It emphasizes the practical application of cartographic principles and the critical evaluation of published maps, charts and other graphical products. This course is approved for General Education – Distribution 2.

GEOG320 PHYSICAL GEOGRAPHY 3 sem. hrs.

This course includes an analysis of selected physical elements of the earth and the forces which shape the environment. The nature and distribution of weather, climate, soils, vegetation, landforms, ground water,

surface water, and other physical aspects are studied in detail. Prerequisite: **GEOG101** or **GEOG130**. This course is approved for General Education – Distribution 2.

GEOG332 POLITICAL GEOGRAPHY 3 sem. hrs.

This course will develop the student's awareness of the geographic aspects on international relationships through an analysis of the world's political states. The course will include case studies emphasizing such factors as the strategic resource concept, boundary location and control of international waterways. Prerequisite: **GEOG101** or **GEOG130**. This course is approved for General Education – Distribution 2.

GEOG333 GEOGRAPHY OF WORLD AFFAIRS 3 sem. hrs.

This course provides an understanding of the role of geographic inter-relationships in world conflicts. Current world events will be used to explain important geographic concepts. Political, economic and logistical inter-relationships among world entities are explored emphasizing the role of geo-politics. Emphasis is given to events related to the American economy, international relations, and the global environment.

GEOG335 URBAN GEOGRAPHY 3 sem. hrs.

This course introduces the spatial patterns of cities in both western and non-western cultures. It uses an historical and a contemporary perspective system to examine cities and their interactions as well as the internal form of cities based on different land uses. This course emphasizes social and environmental problems related to urban development. Prerequisite: **GEOG101** or **GEOG130**. This course is approved for General Education – Distribution 2.

GEOG340 ECONOMIC GEOGRAPHY 3 sem. hrs.

This course investigates attempts to organize space efficiently. Economic behavior results in a wide variety of observable patterns directly related to production, trade, and marketing activities. An examination of such locational factors and principles will enable a better understanding of economic behavior and economic systems. This course is approved for General Education – Distribution 2.

GEOG350 POPULATION GEOGRAPHY 3 sem. hrs.

This course consists of a systematic study of the world's population. The numbers, characteristics, growth and distributional patterns of population are emphasized. Prerequisite: **GEOG101** or **GEOG245**. This course is approved for General Education – Distribution 2.

GEOG365 GEOGRAPHY OF LATIN AMERICA 3 sem. hrs.

This comprehensive introduction emphasizes physical, political, economic, social, and cultural characteristics of selected Latin American countries. This course is approved for General Education – Distribution 2.

GEOG370 GEOGRAPHY OF EUROPE 3 sem. hrs.

This course includes the systematic study of the physical features, climatic regions, distribution of soils, vegetation, agriculture, and minerals. It also

includes regional treatment of selected areas and the growth of economic unity. This course is approved for General Education – Distribution 2.

GEOG375 GEOGRAPHY OF THE MIDDLE EAST 3 sem. hrs.

This course includes the geography of the Middle East as defined in the context of a cultural, social, and economic milieu defined primarily from an Islamic-Arabic central focus. A physical world reality will be interfaced accordingly. This course is approved for General Education – Distribution 2.

GEOG380 GEOGRAPHY OF AFRICA 3 sem. hrs.

This course includes a systematic study of the physical features of this continent as well as the population, cultural, economic and political geography. It stresses problems facing the countries of a developing continent and emphasizes regional treatment of selected areas and the growth of political-economic unity. This course is approved for General Education – Distribution 2.

GEOG390 GEOGRAPHY OF ASIA 3 sem. hrs.

This course provides an intensive study of the environmental and cultural assets and liabilities of the countries of the Far East, South and Southeast Asia. It introduces social, political, cultural, and economic relationships with other areas of the world with contributions to a more complete interpretation of the particular area of topic under study. It stresses population, resources, and strategic problems. This course is approved for General Education – Distribution 2.

GEOG391 FIELD GEOGRAPHY 3 sem. hrs.

(MAY BE TAKEN UP TO THREE TIMES WITH DIFFERENT VENUES)

This course is focused around a short-term field excursion to points of interest. An extensive field experience is used to study the regional geography of the area, including the physical, climatic, cultural, political, urban, economic, environmental and population geography. The course emphasizes how various phenomena combine to form the distinctive geography of the field location. Prerequisite: **GEOG 101** or **GEOG 130**, or permission of instructor.

GEOG395 GEOGRAPHY INTERNSHIP 3-15 sem. hrs.

The Geography internship provides practical experience with an approved agency or facility involved in activities pertaining to geographic fields of study.

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 a GIS and emphasizes acquisition, management, manipulation, and analy-

sis of data by a GIS for the solution of geographic problems. Prerequisite: **GEOG305** or consent of the instructor. This 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 current 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.

GEOG420 GIS APPLICATIONS IN BUSINESS AND PLANNING 3 sem. hrs.
Applications of geographic information science (GIS) to problems faced in business and regional and city planning. Projects in the course focus on real world problems such as site selection for business, location-allocation for public services, routing for buses or delivery trucks, market area estimation, and demographic analysis. Prerequisite: **GEOG340**, junior standing in business, or permission of instructor.

GEOG425 GEOGRAPHY OF WATER RESOURCES 3 sem. hrs.
Water is an essential component of most ecosystems and is a vital resource for human life. This course will examine water resources from a geographic perspective, including the distribution of water resources from local to global scales, water quality issues, and water policy/management in the U.S. and internationally. Prerequisite: **GEOG 245** or **GEOG 320** or permission of instructor.

GEOG490 INDEPENDENT STUDY 2-5 sem. hrs.
The independent study program permits individualization of a student's program of studies. Projects are prepared under the direction of a member of the Geosciences Department with the approval of the department chairperson.

GEOG513 GEOGRAPHIC INFORMATION SYSTEMS II: GIS MODELING 3 sem. hrs.
This course is about the creation and implementation of computer models of geographic reality with the use of a geographic information system. These models are used in the solution of geographic problems. An understanding of the modeling process and the analysis of appropriate spatial data in multi-criteria decision-making will be covered. Prerequisite: **GEOG413** or consent of instructor.

GEOG515 BIOGEOGRAPHY 3 sem. hrs.
This course addresses the spatial and temporal patterns of plant and animal distributions as well as the underlying *processes* that influence these patterns. The course content includes both historical and ecological perspectives on biogeographic distributions. It also addresses human impacts on biotic

distributions and technological advances that have influenced biogeography. Prerequisite: **GEOG245** or **BIOL316** or consent of the instructor.

GEOG525 FOREST GEOGRAPHY AND CONSERVATION 3 sem. hrs.
Forest geography concerns the distribution of forest ecosystems on Earth, and how forests change over time. The course will emphasize the underlying processes that control patterns of growth and change at multiple scales. Both human-related and natural disturbances to forests will be considered. The course will cover major forest conservation issues, especially with respect to forests of the United States. Prerequisites: **GEOG515** or permission of instructor.

GEOG545 ENVIRONMENTAL PLANNING 3 sem. hrs.
This course investigates the underlying spatial character of regional planning. Stress is placed on land use, population patterns, resource capabilities, and transportation infrastructure. Students will be expected to undertake a major research paper. Prerequisite: **GEOG245**.

Earth Sciences Courses

GEO101 DYNAMIC EARTH 3 sem. hrs.
The course is a study of minerals, rocks and geologic processes. It includes the origin, occurrence, classification and properties of minerals and rocks, the processes of erosion and deposition, the processes within the earth's interior and the physical environment of the ocean. No prerequisites, 2 hours lecture, 2 hours lab. This course is approved for General Education - Core 7.

GEO104 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 **GEO101**. **This course is approved for General Education - Core 7.**

GEO109 ATMOSPHERIC 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, with lab.) Students may not take this course concurrent with or after **GEO320** or college level astronomy. 2 hours lecture, 2 hours lab. This course is approved for General Education - Core 7.

GEO112 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 meth-

ods employed to interpret the geologic record. With laboratory. Prerequisite: **GEO101** or consent of the instructor. 2 hours lecture, 2 hours lab.

GEO301 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: **GEO101** or **GEO104** or **GEO310**. This course is approved for General Education - Distribution 3.

GEO302 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.

GEO310 INTRODUCTION TO OCEANOGRAPHY 3 sem. hrs.
The course introduces the physical, chemical biological, and geological processes of the world's oceans. Topics include the history of oceanography, properties of sea water, coastal processes, waves and ocean circulation and marine ecology. No prerequisites. This course is approved for General Education - Distribution 3.

GEO311 MINERALOGY 4 sem. hrs.
A study of the common minerals of the earth's crust. Emphases are placed on the genesis and techniques of identification of the important rock-forming and ore-bearing minerals. Elementary crystallography is introduced. Laboratory work is included. Prerequisite: **GEO101** or consent of the instructor. 3 hours lecture, 3 hours lab.

GEO320 METEOROLOGY I 3 sem. hrs.
An introduction to the composition and structure of the atmosphere, the forces which cause air motion, the nature of observed weather systems, and the processes which cause condensation and precipitation. Pollution of the atmosphere and its possible effect on global climate and air circulation are briefly examined. Recommended for, but not restricted to, science majors. (No prerequisites, with lab.) 2 hours lecture, 2 hours lab.

GEO321 METEOROLOGY II 3 sem. hrs.
This course employs basic physical concepts and elementary mathematics to investigate atmospheric processes on a variety of spatial scales. An emphasis is placed upon the instruction and utilization of practical techniques in weather analysis and forecasting. Lab included. Prerequisite: **GEO320** or equivalent. 2 hours lecture, 2 hours lab.

GEO375 ENVIRONMENTAL GEOLOGY 3 sem. hrs.
This course discusses the complex relationship between the geologic environment and human development. The impact of geologic hazards on land use and the impacts of such use on fragile geologic environments are examined. Topics include the na-

ture and threat of such hazards as volcanoes, earthquakes, coastal erosion, and floods as well as impacts on ground water, surface flow, and slope stability. Prerequisite: **GEOS101** or **GEOS104**. This course is approved for General Education – Distribution 3.

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.

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.

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.

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.

GEOS510 INTRODUCTION TO GEOPHYSICS 3 sem. hrs.

This course introduces three topic areas in geophysics: seismology, geoelectricity and gravity. In addition, it covers some elementary concepts related to digital operations on seismic signals. Laboratory experiments illustrate the fundamentals of making and analyzing geophysical measurements. Prerequisites: **MATH212** and **PHYS202**.

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.

GEOS515 MINERAL RESOURCES 3 sem. hrs.

An introduction to geologic principles and processes of origin and the location, development, and processing of metallic and non-metallic mineral deposits. Prerequisite: consent of instructor or **GEOS101**.

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.

The course presents several approaches and a range of methods and techniques concerned with the systematic acquisition of data in the field. The course is designed to provide the student in geography or geology with a comprehensive overview of field research design, sampling procedures, acquisition of nonvisible data, as well as instruction in the use of a variety of instrumentation, measurement, and mapping techniques. An independent field project is required.

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 effect this evolution and the landforms developed by these processes. The laboratory deals with the study and interpretation of these factors from maps and aerial photography. Prerequisite: **GEOS101**, or consent of the instructor. 2 hours lecture, 2 hours lab.

GEOS545 INTRODUCTION TO HYDROGEOLOGY 3 sem. hrs.

This course, which concerns water within its geological framework, covers the hydrologic cycle, the occurrence and movement of ground water, surface runoff and stream flow, water quality, and the legal implications of water use and misuse. Ground water and water quality are emphasized. Prerequisite: **GEOS101**. 2 hours lecture, 2 hours lab.

GEOS547 INTRODUCTION TO GLACIAL GEOLOGY 3 sem. hrs.

A study of geologic processes in cold climates, with an emphasis on glaciers. This course includes glacial erosion and deposition, the indirect effects of glaciation, nonglacial processes in cold climates, and the effect of climate changes on plants and animals. The laboratory work deals with the interpretation of glaciers and cold climate landforms by maps and aerial photography. Prerequisite: **GEOS112** or equivalent. 2 hours lecture, 1 hour lab.

GEOS581 GEOLOGY FIELD CAMP 3-9 sem. hrs.

GEOS593, SEMINAR IN EARTH SCIENCES 594, 595 each 1 sem. hr.

A seminar course dealing with both current and classical problems in various phases of geology. Prerequisite: consent of the Department. (Students with at least sophomore class standing may elect seminar up to three times for a total of 3 credits.)

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

Health and Physical Education Courses

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.

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. This course is approved for General Education – Health and Physical Education 1.

**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. This course is approved for General Education - Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

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. This course is approved for General Education – Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

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. This course is approved for General Education – Health and Physical Education 2.

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. This course is approved for General Education – Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

**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. This course is approved for General Education – Health and Physical Education.

**HPE132 HEALTH AND
FITNESS
PROMOTION IN
THE WORKPLACE 3 sem. hrs.**

This course is designed to help prepare individuals to plan, implement and manage health promotion programs in various business and industrial work places.

**HPE133 PERSONAL
HEALTH 3 sem. hrs.**

This course assists students to acquire a background of scientific knowledge related to health education. It also studies recent developments and controversial issues in health information. It emphasizes topics commonly taught in public school health settings in anticipation of a teaching career in this field.

**HPE135 ALCOHOL,
TOBACCO AND
OTHER DRUG
EDUCATION 3 sem. hrs.**

This course surveys issues surrounding the use, misuse, and abuse of licit and illicit drugs, including, but not limited to, alcohol, tobacco, over-the-counter and prescription drugs, performance enhancing drugs, and habituating and addictive substances. Prevention and intervention strategies are also incorporated.

**HPE145 INTRODUCTION
TO RECREATION
AND LEISURE
MANAGEMENT 3 sem. hrs.**

This course discusses the foundations and gives a general overview of basic concepts in Recreation and Leisure Management. The course touches on historical, current, and future perspectives in Recreation and Leisure Management.

**HPE215 PEDAGOGY FOR
INDIVIDUAL
ACTIVITIES:
AQUATICS,
GYMNASTICS, AND
ADVENTURE
ACTIVITIES 3 sem. hrs.**

This course will provide for the development and improvement of knowledge and basic skills in swimming, tumbling/gymnastics and adventure activities. Safe practices as well as various methods and techniques will be emphasized.

**HPE220 PEDAGOGY FOR
TEAM GAMES I:
BASKETBALL/SOCCER/
TRACK AND FIELD 3 sem. hrs.**

This course prepares students to teach team games by providing background, basic skills, teaching techniques, game strategies, and class organization structure. Students learn to plan and teach team sport skills in developmentally progressive lessons.

**HPE222 PRINCIPLES OF
FITNESS
INSTRUCTION 3 sem. hrs.**

This course provides basic knowledge and skills involved in fitness instruction. Students are introduced to a variety of concepts related to resistance training instruction, aerobic exercise instruction, flexibility training instruction, and related fitness activities. Students will be introduced to requisite principles and skills leading to fitness instructor certification.

**HPE225 PEDAGOGY FOR
TEAM GAMES II:
VOLLEYBALL,
SOFTBALL,
FOOTBALL 3 sem. hrs.**

This course prepares students to teach team games by providing background, basic skills, teaching techniques, game strategies, and class organizational structure. Students learn to plan and teach team sport skills in developmentally progressive lessons.

**HPE230 PEDAGOGY FOR
LIFETIME
ACTIVITIES :
GOLF, TENNIS,
BADMINTON 3 sem. hrs.**

This course prepares students to teach lifetime activities of golf, tennis, and badminton by providing fundamental knowledge, basic skills, teaching techniques, and class organizational structure. Students will learn to plan and teach lifetime activities in developmentally progressive lessons.

**HPE245 HUMAN
SEXUALITY 3 sem. hrs.**

This course reviews the biological, psychosocial moral, legal, and practical aspects of human sexuality. It prepares students to teach sexual health issues in school and community health settings.

HPE252 LEADERSHIP IN RECREATION MANAGEMENT 3 sem. hrs.

This course explores numerous topics relative to recreation and leisure management. Students gain exposure to various leadership and management styles. Practical elements of this course includes risk management, goal setting, decision making, marketing tactics, and communication skills.

HPE265 HEALTH EMERGENCIES 3 sem. hrs.

This course emphasizes decision making in first aid care and the provision of emergency assistance. Satisfactory completion of this course may lead to certification in Red Cross First Aid and CPR.

HPE266 EMERGENCY MEDICAL TECHNICIAN I 3 sem. hrs.

This course is a foundation for knowledge and skills that will be needed in advanced emergency medicine. Students will be trained to perform evaluations and treatments necessary to serve the public during a medical emergency.

HPE270 SPORTS NUTRITION 3 sem. hrs.

This course provides basic knowledge in the area of nutrition and its applications to physical activity, exercise, and human performance. Students are introduced to a variety of concepts related to macronutrients, micronutrients, metabolic rate and substrate utilization. Consideration is also given to special athletic populations, ergogenic aids, fluid intake and body composition.

HPE278 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL 3 sem. hrs.

This course teaches the importance of physical education in elementary schools and demonstrates how such programs can be developed, organized, and implemented. A field experience provides students observation and participation in an elementary physical education setting.

HPE300 APPLIED ANATOMY AND PHYSIOLOGY FOR HPE I 3 sem. hrs.

This is the first course of a two course sequence involving the study of normal structure and function of the human body. Designed specifically for Health and Physical Education Majors, this course surveys the structure and function of the integumentary, endocrine, cardio vascular, lymphatic, immune, respiratory, digestive, and urinary systems. Emphasis will be placed on the affect of exercise and fitness levels on each of these systems separately and the human body in general. Prerequisite: **BIOL101** or equivalent.

HPE301 APPLIED HUMAN ANATOMY AND PHYSIOLOGY FOR HPE II 3 sem. hrs.

The second of a two course sequence involving the study of normal structure and function of the human body. Designed specifically for Health and Physical Education Majors, this course will focus on structure and function of the skeletal, muscular, and nervous systems. Particular attention will be focused on motor behavior and its components; motor control,

motor learning, and motor development with regard to the integration of these three systems. Prerequisite: **BIOL101** or equivalent.

HPE306 CLASSROOM MANAGEMENT IN HEALTH AND PHYSICAL EDUCATION 3 sem. hrs.

This course helps students acquire fundamental knowledge and skills in effective classroom management. Emphasis is placed on enabling the student to provide quality instruction within health education and physical education settings. Students are advised to complete this course prior to enrollment in HPE405 and HPE495.

HPE310 CARE AND PREVENTION OF ATHLETIC INJURIES 3 sem. hrs.

The purpose of this course is to offer theory and practice in the prevention, handling, and care of athletic injuries, and in the physical conditioning of athletes. The course is designed to meet the needs of the coach or trainer in the field, the student that is about to embark upon a coaching or training career, and physical education majors. The content will be preceded by an introduction to anatomy, physiology, and kinesiology, as related to professional needs in caring for athletic injuries.

HPE311 PLANNING AND EVALUATION IN HEALTH AND PHYSICAL EDUCATION 3 sem. hrs.

This course provides the foundation necessary to plan and evaluate health and physical education instruction. Specific areas of concentration include curriculum development and assessment, unit planning, bulletin board construction, health fair organization, and health and physical education evaluation. Prerequisites: **HPE133, HPE134.**

HPE314 KINESIOLOGY 3 sem. hrs.

The purpose of this course is to study human movement and the physical and physiological principles upon which it depends. It analyzes human motion as based on anatomic, physiologic, and mechanical principles. This course includes laboratory experience in selected topics. Prerequisite: **HPE300** or consent of instructor.

HPE315 MANAGEMENT OF SPORT AND PHYSICAL EDUCATION PROGRAMS 3 sem. hrs.

This course describes the management and administrative duties in physical education and athletics. It studies problems, case studies, and strategies to help prepare the entry level manager to operate effectively in setting priorities for planning, evaluating, and implementing highly diverse activities. Students with credit in HPE122 and HPE426 may not take this course.

HPE320 CONSUMER HEALTH 3 sem. hrs.

The course presents the facts and fallacies of the health marketplace in an effort to help students become informed consumers. It examines how to maintain a healthy lifestyle, seek reliable sources of

information and health care, avoid products and practices that lack scientific substantiation, and accept personal responsibility for dealing with deception in the marketplace.

HPE323 SOCIO-CULTURAL FOUNDATIONS OF SPORT 3 sem. hrs.

This course explores the socio-cultural foundations of sport regarding group processes, social influences, cultural determinants, and interpersonal relationships. The class will also investigate the relationship of sport and social development.

HPE324 OUTDOOR RECREATIONAL PROGRAMMING 3 sem. hrs.

This course examines the methodology of programming activities, planning processes, risk management, and emergency procedures of outdoor recreation programs. It also reviews environmental issues and the importance of equipment in relation to programs.

HPE325 EMERGENCY MEDICAL TECHNICIAN II 3 sem. hrs.

The material learned in this course will help the student assume responsibility at a medical or trauma emergency. The knowledge and skills learned will help prepare the student to administer proper assessments, care, packaging, and transportation of patients to the emergency department. Finally, this course can help prepare the student to register for the state emergency medical technician (EMT) exam.

HPE350 EXERCISE PHYSIOLOGY 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.

HPE355 COMMUNITY HEALTH EDUCATION 3 sem. hrs.

This course provides students with an overview of community health education principles and practices. Areas of focus include the framework for community health, an assessment of current and projected leading causes of death, an analysis of health status of underserved and special populations, community health priorities, and environmental health issues.

HPE360 ADAPTED PHYSICAL EDUCATION 3 sem. hrs.

This course provides the knowledge and skills necessary to teach students with disabilities physical education in an inclusive environment. Assessment, planning, instructional techniques and specific sport adaptations for acquisition of psychomotor skills are emphasized. Field experiences working directly with special populations in physical education will be required. Prerequisite: HPE215 and SPED210 or permission of instructor.

HPE364 HEALTH METHODOLOGY 3 sem. hrs.

This course provides curriculum plans and strategies for effective health instruction. It presents and models principles of interactive instruction and classroom management through a variety of teaching experiences. Prerequisite: **HPE133.**

HPE384 TECHNOLOGY INTEGRATION IN HEALTH AND PHYSICAL EDUCATION 3 sem. hrs.

This course provides students with a practical understanding of computer software and hardware designed to enhance health and physical education instruction. Computer technology integration into health and physical education curriculum will be emphasized and related to the National Education Technology Standards for Teachers.

HPE400 CRITICAL ISSUES IN HEALTH 3 sem. hrs.

This course provides a foundation for the planning, development, and evaluation of health programs. It also examines professional development, grantsmanship, and computer use within various health education settings.

HPE402 LEGAL ASPECTS OF SPORT/ RECREATION 3 sem. hrs.

This course provides knowledge and awareness of the legal system governing sport and recreation. Specific topics covered include constitutional and statutory law, tort liabilities, contract law and sport applications, labor relations, and the role of law in sport and recreation. Issues of risk management, product liability, negligence, programming, and ethics will be applied to the sports/recreation industry.

HPE405 HEALTH AND PHYSICAL EDUCATION FIELD EXPERIENCE 3 sem. hrs.

This elementary school and secondary school field experience includes teaching/learning experiences in both academic areas under the teachers. It considers all aspects of school organization and administration with focus primarily on classroom planning toward effective teaching/learning. Students with credit in HPE425 may not take this course.

HPE406 WORKSITE FIELD EXPERIENCE 3 sem. hrs.

This course provides students with essential links between classroom information and pre-professional experience in the areas of health promotion, sport administration, and recreation administration. Students are introduced to organizational missions, public relations, program planning and implementation, event management, and other experiences related to these professions. Prerequisites: **HPE315, HPE311.**

HPE410 FACILITY MANAGEMENT AND OPERATIONS 3 sem. hrs.

This course focuses on the principles and practices of operating sport centers, athletic complexes, recreational and community centers, and fitness centers. It emphasizes need assessment and facility design, contract services, risk management, operational structures, security, media and public relations, and concessions and merchandise.

HPE424 CONTEMPORARY ISSUES IN RECREATION 3 sem. hrs.

This course touches upon current issues and trends that are evolving within the field of recreation. Included in this course are a review of employment opportunities, motivation, recreational facility construction craze, computer applications, and programmatic trends.

HPE428 COACHING TECHNIQUES 3 sem. hrs.

The course is designed for the potential athletic coach. The physical growth and development characteristics of the athlete will be studied, as well as those factors important to athletic productivity. These include philosophy, eligibility, conditioning, psychology and motivation, skill development, practice and game organization, and responsible team membership. Prerequisite: Two (2) seasons of high school athletic team membership, or; one (1) season of intercollegiate athletic team membership, or; certification as a high school official, or; permission of the instructor.

HPE450 EXERCISE PHYSIOLOGY II 3 sem. hrs.

This course provides advanced knowledge in the area of exercise physiology and its applications to fitness testing, exercise, and human performance. In addition to building advanced understanding of theory of exercise, emphasis is placed on development of proficiency in fitness testing and exercise prescription. Prerequisite: **HPE350.**

HPE470 RESEARCH IN HUMAN PERFORMANCE 3 sem. hrs.

This course provides a foundation to the scientific method, research methods, and data collection and analysis in Human Performance. Students will be introduced to the research process including: review of the literature, hypothesis testing, conducting a pilot study, and writing a research abstract. Research ethics, statistical computer applications, and health and physical education applications are also discussed. Prerequisite: **MATH260.**

HPE490 INDEPENDENT STUDY 3-12 sem. hrs.

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 AND ANTHROPOLOGY DEPARTMENT

History Courses

HIST100 STUDY OF HISTORY 3 sem hrs.

This course is an introduction to the rationale behind the discipline of history, to its scope and meaning, with illustrations from the writings of selected historians from earliest times to the present. 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. Prerequisite: Students should have already taken ENGL101 or must be currently enrolled 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 the European and Asian continents. This course is approved for General Education – Core 2.

HIST102 WORLD CIVILIZATIONS II 3 sem. hrs.

This course emphasizes the continuing development of man's political, economic, religious, aesthetic and social achievements 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 recent past by focusing attention on science and technology and their impact on human society, and interpreting human experience in the light of contemporary changes. This course is approved for General Education – Core 2.

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.

HIST300 INTRODUCTION TO APPLIED 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, 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.

HIST303 CHINA'S IMPERIAL PAST 3 sem. hrs.

An introduction to the development of Chinese civilization from pre-historic times to the 1850s. Special attention is paid to characteristic political, economic, and social developments, and intellectual movements. China's relations with the non-Chinese world are also taken into consideration. Prerequisite: Sophomore or permission of the Instructor.

HIST305 CHINA, PAST AND PRESENT 3 sem. hrs.

This course briefly examines dynastic changes, philosophy and religions, and family and society of traditional China, but greater emphasis will be placed on contemporary history of China since the Opium War. Graduate students will be required to demonstrate a deeper understanding of Chinese history.

HIST306 THE UNITED STATES AND ASIA 3 sem. hrs.

This course introduces the major principles of the U.S. foreign policy toward Asia with special emphasis on East Asia during the 19th and 20th centuries. Students will learn the history of the United States diplomatic/commercial relations with East Asia as well as history of the six Asian wars in which the United States was involved. Graduate students will

demonstrate a deeper understanding of the complexities of the history of the U.S. relationship with Asia as determined by the instructor. This course is approved for General Education – Distribution 2. Prerequisite: Sophomore or permission of the Instructor.

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.

HIST310 ISLAM AND THE WEST: SOURCES OF CONFLICT AND ACCOMMODATION 3 sem. hrs.

This course will attempt to develop an awareness and understanding of the political, economic, cultural, geographic and historical forces at work in the making of the contemporary Islamic world. The course will emphasize the rise of colonialism in Africa and Asia, Islamic fundamentalism, sources of tensions and confrontational issues between the West and the world of Islam. Prerequisite: Sophomore, HIST102 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 com-

plexities 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.

HIST317 PRE-COLONIAL AFRICA 3 sem. hrs.

A study of the history of Africa south of the Sahara from early times to 1800, emphasizing the people of Africa, formation of African groupings, continental contacts with the Ancient World, the growth of states and empires, the impact of Islamic culture, the impact of the West, and the consequences of the western world's misconceptions about Africa's past.

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.

HIST323 HISTORY OF LATIN AMERICA I 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. This course is approved for General Education – Distribution 2. Prerequisite: Sophomore or Spanish language course or permission of the Instructor.

HIST324 HISTORY OF LATIN AMERICA II 3 sem. hrs.

This survey underscores the emergence of various nations in Latin America following the Wars of Independence, the major problems which faced the newly formed countries of the National Period. It also studies in broad form the countries of Latin America as grouped into basic geographic locations: Mexico, Central America, the Caribbean, and South America. This course is approved for General Education – Distribution 2. Prerequisite: Sophomore or HIST323 or any Spanish language course or permission of the Instructor.

HIST325 HUMAN HISTORY AS HISTORICAL SCIENCE: GUNS, GERMS, AND STEEL 3 sem. hrs.

This course provides for an understanding of human history as a historical science using the perspective of the author Jared Diamond from his Pulitzer Prize winning book *Guns, Germs, and Steel: The Fates of Human Societies*. In it, Diamond argues that the fate of different peoples rests on their environment, and not because of biological differences among groups of people. Furthermore, he argues that a comprehensive understanding of human history requires that scientific disciplines usually remotely tied to human history (i.e., genetics, biogeography, behavioral ecology, epidemiology) must be included. This view will be critically evaluated, compared to competing theories of human history, and applied to a model of future human societies. Prerequisites: One biology course or one history course or permission of instructor(s). Honors only. This course is approved for General Education – Distribution 2 or 3.

HIST327 HISTORY OF MEXICO AND CENTRAL AMERICA 3 sem. hrs.

This course studies the major economic, political, and social developments in Mexico and the Central Americas during the National Period. Special emphases will be placed on the contemporary problems and the relationship to each other and to the United States. Graduate students will demonstrate a deeper understanding of the complexities of Mexican and Central American history as determined by the instructor. Prerequisite: Junior or HIST323 or HIST324 or any Spanish language course or permission of the Instructor.

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 SOC100.

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. Sophomore standing or HIST102 or any German Language course or permission of 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 will demonstrate a deeper understanding of the complexities of history of Nazi Germany as determined by the instructor. This course is approved for General Education – Distribution 2.

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.

HIST346 INTRODUCTION TO MODERN EUROPE I 3 sem. hrs.

This course analyzes the development of the European state system and the Enlightenment; emphasis is placed upon the forces of revolution, the Napoleonic upheavals, the concert system, and the forces of liberalism, democracy and the industrial revolution. Students who opt for HIST346 are not eligible to take HIST537.

HIST347 INTRODUCTION TO MODERN EUROPE II 3 sem. hrs.

This course studies the political, social and economic changes in Europe since the Revolutions of 1848, concentrating on diplomatic developments, the second Industrial Revolution, the spread of ideology, World War I, the Versailles settlement, the

quest for collective security, the rise of totalitarian states, World War II and its aftermath, and the Cold War. This course is approved for General Education – Distribution 2.

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.

HIST357 HISTORY OF ENGLAND, 1485-1815 3 sem. hrs.

This course studies the history of England from the end of the War of Roses to the end of the Napoleonic Wars, emphasizing major economic, political, social, intellectual, diplomatic, imperial and institutional development. This course is approved for General Education – Distribution 2.

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.

HIST369 RECENT U.S. HISTORY 3 sem. hrs.

History of the United States since World War I, emphasizing the increased participation in world affairs, technology, and its effects upon all aspects of living, urbanization, the impact of the Depression, attitudes toward government functions, the rising position of labor, and the influence on mass media of communication.

HIST370 THE AMERICAN DREAM ON FILM 3 sem. hrs.

With the aid of films (silent and talkies), documentaries, outside readings, written reports, and critiques, the course will focus on the theme of myth and reality in American history. Throughout the course, there will be a continuous attempt to re-interpret the various historical myths that have been isolated and identified and emphasis will be placed on their impact in shaping American history. Prerequisite: Sophomore standing or one of the following: **HIST262**, **ARHI105** or permission of instructor. This course is approved for General Education – Distribution 2.

HIST372 HISTORY OF AMERICAN VIOLENCE 3 sem. hrs.

This course examines the varied nature of American violence from the colonial period to the present. It examines the nature of violence as it relates to race, gender, class, politics, economics, and the media. It emphasizes the motivations for violence and the methods American society has historically employed to control violence. Prerequisite: Sophomore standing or one of the following: **HIST261**, **HIST262**, **HIST271**, **HIST272**, **HIST375** or permission of instructor.

HIST373 THE TURBULENT SIXTIES 3 sem. hrs.

This course deals with the major developments of the 1960s in the United States, such as the civil rights movement, the Vietnam War, the peace movement, counter culture, the rebellion of the youth, and domestic politics. It also examines their effects of these developments into the 21st century. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

HIST374 THOMAS J. JACKSON: "MIGHTY STONEWALL" 1 sem. hr.

This course presents a detailed study of the life, campaigns and tactics of one of the greatest confederate generals of the American Civil War – "Stonewall" Jackson.

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 will pursue the evolution of U.S. involvement in the Vietnamese conflict. After an initial description of the French Colonial era, the ensuing American interest in the area will be traced to the present time. Special attention will be given to causes, effects, and results of the policies in force in each period. Prerequisite: History or Political Science major with Sophomore standing. Any student with any of the following: **MILS301** (concurrent enrollment), **HIST261**, **HIST262**, **HIST375** or permission of instructor.

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.

HIST381 NEW SOUTH SINCE 1877 3 sem. hrs.

This course surveys the South from the end of Reconstruction to the present. It examines the political, economic, and social changes in the region, as well as its contribution to the United States. An important component in this course is an examination of the intersection of race and poverty brought on by the aftermath of the Civil War. Moreover, the course addresses major issues such as the Great Migration from the South in the early 20th century, as well as the more recent population movements into the region.

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.

HIST386 CUSTER: "SABER TO GLORY" 1 sem. hr.

This course presents a detailed study of the life and times of General George A. Custer, controversial figure of the Civil and Indian Wars.

HIST388 OLD BLOOD AND GUTS: "PATTON" 1 sem. hr.

This course presents a detailed study of the life and times of General George S. Patton, Jr., controversial figure of World Wars I and II.

HIST389 APPALACHIAN CULTURE 3 sem. hrs.

This course examines the ethno history of the Appalachian region. It includes material of the origins of the culture, its historical development, and its present status. Emphasis is placed on understanding the traditional way of life of a largely rural people, a way of life that is rapidly changing. The course will include the use of films, tapes, and records to bring the authentic Appalachian culture into the classroom. Prerequisite: ANTH180 or permission of the instructor. This course is approved for General Education – Distribution 2.

HIST394 SPECIAL TOPICS IN HISTORY 3-12 sem. hrs.

This course will focus on a specific topic in History suitable for advanced students. The content will vary from semester to semester according to interests of the students and faculty. Students may repeat this course up to four times for different topics. **Graduate students will be required to demonstrate a deeper understanding of the content of each topics course.** Prerequisites: junior standing and permission of the instructor.

HIST395 FIELD EXPERIENCES IN HISTORY 2-5 sem. hrs.

Emphasis is placed upon developing historical research skills through supervised internships or field work at archives or historical sites. Utilizing college archives, Erie and Crawford County records, municipal materials, or material available at other sites in the United States or abroad. The student will acquire advanced historical research skills and will prepare a substantial paper. Credit as arranged. Prerequisite: History major or any major with junior standing and 6 hours of History courses or permission of instructor.

HIST400 METHODS OF HISTORICAL RESEARCH 3 sem. hrs.

This course introduces students to the scope and meanings of history as well as to historical research and related activities. It also stresses historiography and a variety of philosophical interpretations. Graduate students will demonstrate a deeper understanding of the complexities of research methods and the research process as determined by the instructor. History majors only or permission of instructor. Students must have completed both HIST100 and HIST300 before taking this course.

HIST405 MODERN 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 failures 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. **Prerequisite: Sophomore or Junior Standing.**

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.

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.

HIST500 ARCHIVAL THEORY 3 sem. hrs.

This course introduces students to the principles of archival theory. It examines the basic tenets of how to appraise material, how to preserve the material, how to arrange and describe the material and finally, how to provide access to it. Students will also be introduced to the archival profession as a career option. Prerequisite: HIST100, HIST300, HIST400 or permission of instructor.

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.

HIST520 HISTORY OF WOMEN AND WAR: 20TH CENTURY U.S. 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 the Persian Gulf War(s). Special emphasis will be placed upon women's roles during World War II. Prerequisites: Students must have taken one of the following courses; HIST314, HIST315, HIST515, HIST330, HIST375, HIST376, ENGL311, ENGL365, or permission of the 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 meta-historical 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.

HIST600 PUBLIC HISTORY SEMINAR 3 sem. hrs.

This course offers an examination of public history, that is history practically applied. It is a set of theories, methods, assumptions, and practices guiding the identification, preservation, interpretation, and presentation of historical artifacts, texts, structures, and landscapes for the public. Students will learn the principles and issues and the role of official public policy in public history. They will examine critically the public presentation of history and gain an awareness of the role of public history in contemporary culture as well as its use in the past.

HIST602 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.

HIST604 SEMINAR IN MULTICULTURAL AMERICA 3 sem. hrs.

This course examines the history and culture of the many ethnic groups in the United States and how they create and maintain their identities within a changing society. It also traces the historical development of intragroup differences based on social class, gender, education, and age. It explores topics such as race, migration, religion, politics, the role of the family, physical and mental health, and the impact of ethnicity on mainstream American society.

HIST606 THE UNITED STATES AND ASIA 3 sem. hrs.

This course introduces the major principles of the U.S. foreign policy toward Asia with special emphasis on East Asia during the 19th and 20th centuries. Students will learn the history of the United States diplomatic/commercial relations with East Asia as well as history of the six Asian wars in which the United States was involved. Graduate students will demonstrate a deeper understanding of the complexities of the history of the U.S. relationship with Asia as determined by the instructor.

HIST609 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.

HIST610 ORAL HISTORY 3 sem. hrs.

This course offers a detailed examination of oral histories. It introduces the student to oral history as a historical source and the complications of planning, development and operation of oral history projects for colleges, libraries, museums, corporations, professional organizations and public schools. The course will further emphasize finding interview subjects, research and preparation for interviewing, interviewing techniques, post-interview procedures, transcription, legal aspects, management of oral history collections, and the uses of oral history.

HIST613 THE MIDDLE EAST: 20TH CENTURY 3 sem. hrs.

The course will cover the history and politics of the contemporary Middle Eastern Countries – Turkey, Iran, Israel, Jordan, Egypt, Saudi Arabia, Syria, Kuwait, Yemen, and Persian Gulf States, from the First World War until the present time. Special emphasis will be on international factors which contribute to the emergence of the National State System in the area and to the rise of nationalism. The factors leading to Arab-Israeli Dilemma and its impact on the foreign policies of the major powers will be fully examined.

HIST614 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. Graduate students will demonstrate a deeper understanding of the complexities of women in European history.

HIST615 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.

HIST616 HISTORY OF WOMEN IN GLOBAL SOCIETIES sem. hrs.

This course studies the history of women in a global context. It examines their status in pre-colonial 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.

HIST623 READINGS IN LATIN AMERICAN HISTORY AND POLITICS sem. hrs.

This course provides students the opportunity to do individual readings and study primary sources and secondary materials in colonial and modern Latin American history and politics. The reading will be directed by a faculty member. Readings and topics will vary depending on the interests of student and faculty. Students may register for history or political science credit.

HIST624 SEMINAR IN LATIN AMERICAN HISTORY AND POLITICS 3 sem. hrs.

This course provides directed research in a specific period or topic. The culminating activity of the course is the preparation of a scholarly paper. Topics and periods will vary, depending upon the faculty member. Students may register for history or political science credit.

HIST627 HISTORY OF MEXICO AND CENTRAL AMERICA sem. hrs.

This course studies the major economic, political and social developments in Mexico and the Central Americas during the National Period. Special emphases will be placed on the contemporary problems and the relationship to each other and to the United States. Graduate students will demonstrate a deeper understanding of the complexities of Mexican and Central American history as determined by the instructor.

HIST632 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.

HIST634 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.

HIST641 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 1933-1945. 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 will demonstrate a deeper understanding of the complexities of history of Nazi Germany as determined by the instructor.

HIST652 HISTORY OF EASTERN EUROPE: 19TH AND 20TH CENTURIES 3 sem. hrs.

This course provides a wide and deep coverage – by lectures, reading, papers, reports – of the political, economic, social, and cultural developments of Eastern Europe with emphasis on the areas of the Habsburg Empire and the forces that foreshadowed its destruction, and on the impact of new ideologies of the 20th century on the successors of the Empire.

HIST654 20TH CENTURY RUSSIA 3 sem. hrs.

This course acquaints students with the major developments in Russian history since 1917. It gives some attention to the period prior to 1917 in order to develop the proper background for the revolutionary change. It emphasizes politics, but also studies other features of the Soviet system's subsequent breakup from the perspective of totalitarian society as well as the current developments from the onset of glasnost and perestroika.

HIST655 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.

HIST660 UNITED STATES HISTORIOGRAPHY 3 sem. hrs.

Students in this course will explore the development of the historical theories and schools of the major historians from William Bradford to Allan Nevins. Availability and use of the major source collections will be discussed. The students will prepare a major paper dealing with a controversial problem in American History.

HIST664 THE JACKSONIAN ERA: UNITED STATES 1828-1848 3 sem. hrs.

In this course, the background, precursors, philosophy, and ideals of the Jacksonian Era are studied through detailed readings, research, lectures, and discussions. Emphases in this course will be placed on the economic, political, and social changes in the United States which brought about Jacksonian democracy and its inherent influences on our society.

HIST666 THE GILDED AGE: UNITED STATES 1870-1900 3 sem. hrs.

In this course, a detailed study is made of the revolutionary change brought in our society as a result of major innovations in economic, political, and social institutions during the last decade of the 19th century. Emphases will be given to the theories and philosophies which caused the changes and to the resulting protest movements and governmental regulatory action.

HIST667 THE PROGRESSIVE ERA 3 sem. hrs.

An in-depth study of the beginning period of 20th century America, 1900-1920. By means of lectures, seminars, intensive readings of secondary works (earlier ones, as well as more recent interpretations) and journal articles, writing research papers, and book reviews, the student will explore the economic, political, and cultural history of the Progressive Era which should provide him or her with an understanding of the historical origins and early development of Modern America.

HIST668 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.

HIST669 HISTORY OF THE NEW DEAL 3 sem. hrs.

This course provides an in-depth study of the maze of the shifting and contrary interpretations of this complex era in order for the student to develop a framework of understanding that will provide him/her with the proper perspective to evaluate the social, economic and political significance and legacy of the New Deal.

HIST672 U.S. SOCIAL AND INTELLECTUAL HISTORY II 3 sem. hrs.

The origins and developments of ideas, ideals, and philosophies which led to social movements and the establishment of cultural patterns in the United States will be studied in these courses. This course begins with 1876.

HIST674 ECONOMIC HISTORY OF THE UNITED STATES II 3 sem. hrs.

This course begins with 1865 and continues to the present. It concentrates on the rise of the industrial standard and its impact on American Society.

HIST695 FIELD EXPERIENCES IN HISTORY 2-5 sem. hrs.

This course emphasizes developing historical research skills through supervised internships or field work at archives or historical sites. It uses 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 research project or paper. Graduate students will develop a deeper understand-

ing of the skills and knowledge acquired through field experiences in history as determined by the instructor and/or site supervisor.

HIST697 SPECIAL TOPICS IN HISTORY 3-12 sem. hrs.

This course will focus on a specific topic in History suitable for advanced students. The content will vary from semester to semester according to interests of the students and faculty. Students may repeat this course up to four times for different topics. **Graduate students will be required to demonstrate a deeper understanding of the content of each topics course.** Prerequisites: junior standing and permission of the instructor.

Anthropology Courses

ANTH180 INTRODUCTION TO ANTHROPOLOGY 3 sem. hrs.

This course acquaints students with the holistic approach to the study of humanity by examining 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 is approved for General Education – Core 4.

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.

ANTH275 INTRODUCTION TO CULTURAL ANTHROPOLOGY 3 sem. hrs.

An examination of the major characteristics of human culture. The patterning and integration of cultural ethos and value systems; consideration is given to culture and personality, ideology, religion, language and change.

ANTH305 ANTHROPOLOGY OF FOOD AND EATING 3 sem. hrs.

This course examines how food and eating are an essential part of human existence. It explores the many biological, cultural, and social uses of food and eating from a holistic cross-cultural perspective, starting with the earliest humans and continuing into the future. Prerequisite: Sophomore standing or permission of instructor.

ANTH310 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 sem. hrs.

This course provides a broad overview of forensic anthropology – an applied field of physical anthropology. Forensic anthropology draws upon the study of skeletal biology to solve problems of medicolegal significance. This course will provide an introduction to the principles and legal aspects of personal identification in multiple forensic contexts. In addition through case studies, students will have the

opportunity to learn how forensic anthropologists use their skills as they investigate mass disasters, political atrocities, and suspicious deaths around the world. Prerequisite: Sophomore standing or permission of instructor.

ANTH315 RITUAL, MAGIC AND MYTH 3 sem. hrs.

This course examines religious belief and ritual in nonliterate societies as well as popular movements among followers of world religions. It focuses on religion as an aspect of culture that offers people a means to understand and adapt to a changing world. Topics include theories of religious origins, magic and divination; witchcraft and sorcery; ghosts, spirits, and gods; mythology; and religious movements. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH353 APPLIED ANTHROPOLOGY 3 sem. hrs.

This course explores the ways in which anthropologists use their knowledge and skills to improve intercultural communication, to promote positive cultural and social change, and to assist victims of change in the United States and in other industrial and nonindustrial societies. It offers practical methods for understanding and working with people of other cultures. Prerequisite: Sophomore standing or permission of instructor.

ANTH364 CULTURE, ILLNESS AND CURING 3 sem. hrs.

This course offers a cross-cultural understanding of health and illness beliefs and practices. It examines the impact of modern biomedicine upon traditional peoples and cultures, problems of communication between health practitioners and patients of other cultures, as well as the confrontation in the United States between biomedicine and alternative systems of healing. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH365 LIVING WITH THE DEAD: MORTUARY STUDIES IN CROSS-CULTURAL PERSPECTIVE 3 sem. hrs.

In this course, we will explore how contemporary, historic, and prehistoric cultures respond to death. The focus of this course will be on the corpse - how the living react to a dead body, how they treat the dead body prior to and during disposal, and what powers are ascribed to the dead. We will also explore the experiences of those in our own culture that routinely interact with dead bodies – morticians, medical examiners, disaster responders, and forensic anthropologists. Prerequisite: Sophomore standing or permission of instructor.

ANTH371 INTRODUCTION TO ARCHAEOLOGY 3 sem. hrs.

Archaeology, a sub discipline of anthropology, systematically studies man's prehistoric and historic past from the remains of human behavior. It also provides the means with which to verify historical facts, fill in gaps in historical knowledge, and correct biases inherent in history. This course introduces a diversity of research problems, data gathering techniques, analyses, and conceptual frameworks which form an intrinsic part of modern day

archaeology. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH372 CULTURES OF THE WORLD 3 sem. hrs.

The course surveys world cultures and describes the methods anthropologists use to study them. It explores in cross-cultural perspective such topics as adaptation to the environment, language, art, values, politics, law, marriage and the family, as well as culture change and the impact of the West upon third-world populations. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH373 ARCHAEOLOGICAL FIELD STUDIES 3-12 sem. hrs.

This course has two complementary aspects. During the summer and fall sessions archaeological field techniques are applied to the excavation of actual sites. During the spring semesters archaeological laboratory techniques are applied to the preparation and analysis of archaeological data. Graduate students will demonstrate a deeper understanding of the complexities of archeological field studies. Prerequisite: Sophomore standing or permission of instructor.

ANTH374 INDIANS OF NORTH AMERICA 3 sem. hrs.

This course looks at the traditional and contemporary cultures of Eskimos and North American Indians. It examines Native American adaptations to the environment, social and political organization, religion, life styles and values, histories of contact with outsiders, and problems of survival in the modern world. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH378 NATIVE AMERICA BEFORE COLUMBUS 3 sem. hrs.

This course surveys the development of Native American cultures, as revealed in the archeological record, for the first 20,000 years before European contact. Models are examined which describe and explain the interrelationships between pre-Columbian cultural systems and their respective cultural and physical environments. Special emphasis is placed upon examining interrelationships among the technological sociological and ideological subsystems of individual pre-Columbian Native American cultural systems. Prerequisite: Sophomore standing or permission of instructor.

ANTH379 FROM EARLY MAN TO EARLY CIVILIZATION IN THE OLD WORLD 3 sem. hrs.

This course surveys the development of cultures in Europe, Africa, Asia, Australia, and the Pacific from their first evidence through the earliest civilizations, as revealed in the archaeological record. Models are examined which describe and explain human cultural evolution. Interrelationships among the technological, sociological, and ideological subsystems of individual cultural systems are emphasized. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH381 ANTHROPOLOGICAL THEORY 3 sem. hrs.

This course is concerned with the development of thought about man and his culture. Among the schools of thought considered are: 19th century evolutionism, British and German diffusionism, the American Historical School, functionalism, and 20th century evolutionism. Prerequisite: ANTH275 or ANTH180.

ANTH385 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 3 sem. hrs.

This course is an introduction to the study of people as bio-cultural organisms. Human biology is viewed in relation to culture, society, and human behavior. The place of homo sapiens in the scheme of evolution is the central theme. The evolutionary history of humankind is traced through the fossil record. Homo sapiens relationship with the other living primates is demonstrated. Molecular biology and its contributions to our understanding of human evolution are investigated. Ecology, overpopulation, and other current human problems are discussed in the light of their impact on the future of the human species. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

ANTH389 APPALACHIAN CULTURE 3 sem. hrs.

This course examines the ethno history of the Appalachian region. It includes material of the origins of the culture, its historical development, and its present status. Emphasis is placed on understanding the traditional way of life of a largely rural people, a way of life that is rapidly changing. The course will include the use of films, tapes, and records to bring the authentic Appalachian culture into the classroom. Prerequisite: ANTH180 or permission of the instructor.

ANTH390 HUMAN EVOLUTION 3 sem. hrs.

This course examines the fossil record of human evolution and offers a survey of the evolutionary development of humans, from earliest hominine forms to the present. Theories of the origin, diversity, and continuing evolution of humans are considered. Prerequisite: ANTH180 Introduction to Anthropology or ANTH385 Introduction to Physical Anthropology or permission of the instructor.

ANTH395 FIELD EXPERIENCES IN ARCHAEOLOGY 2-5 sem. hrs.

Emphasis is placed upon developing archaeological research skills through supervised internships or field work at archives or historical sites. Utilizing college archives, Erie and Crawford County records, municipal materials, or material available at other sites in the United States or abroad. The student will acquire advanced historical research skills and will prepare a substantial paper. Credit as arranged. Prerequisite: Sophomore standing or permission of instructor.

ANTH397 SPECIAL TOPICS IN ANTHROPOLOGY 1-3 sem. hrs.

The subjects in anthropology treated in this course will vary depending upon student and instructor interests and are beyond the scope of materials treated extensively in regularly scheduled courses. A list of topics is maintained in the files of the department head.

**ANTH420 THE
ARCHAEOLOGY
OF THE BRITISH
ISLES 3 sem. hrs.**

This course surveys the cultures of the British Isles, as revealed in the archeological record, from the Paleolithic through the Middle Ages. Course work will be complemented by visits to the British Museum and a variety of relevant archaeological sites in England. Prerequisite: Sophomore standing or permission of instructor.

**ANTH490- INDEPENDENT
494 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, audiovisual, field work, and laboratory experiences. The course will focus on fundamental concepts in archaeology, Pennsylvania archaeology, the process of archaeology, and the issues in archaeology. Teachers will learn to understand and use lesson plans developed by federal and Pennsylvania archaeologists for Project Archaeology (a national archaeology curriculum), among others. Although the material targets grades four through eight, it can be easily adapted for other grade levels. Prerequisites: Must be a state certified teacher or enrolled in a degree program offered by an accredited school of education. Must be Sophomore standing or permission of the instructor.

**ANTH501 ANTHROPOLOGY
OF AGING 3 sem. hrs.**

This course is an introduction to the cross-cultural study of aging. The process of aging is studied from the holistic perspective of anthropology. The statuses and roles of the elderly are examined as they exist in a variety of cultures. Emphasis is placed on understanding both the process of aging as it is handled cross-culturally and the relationship of other cultural variables to that process. Prerequisite: ANTH180 or ANTH275 or permission of the instructor.

**ANTH510 ADVANCED
METHODS IN
FORENSIC
ANTHROPOLOGY 4 sem. hrs.**

The foundation of forensic anthropology is the study of the human osteology and this lab-based course provides an intensive study of this field. The course includes a review of normal skeletal anatomy, variation, and growth while emphasizing the techniques of age, sex, race, and stature determination. In addition, applications of osteological analysis will be discussed as they occur in forensic contexts. Topics to be discussed include sharp force, blunt force, and ballistic trauma; burned bodies; and forensic, nonforensic, and nonhuman remains. This knowledge forms the underpinning for advanced study in forensic anthropology, paleoanthropology,

human osteology, and medicine. Prerequisite: ANTH310 Introduction to Forensic Anthropology or permission of the instructor.

**ANTH601 INTRODUCTION
TO MUSEUMS 3 sem. hrs.**

This course introduces students to museum management and operations, covering all facets of museum operations, from collections care and utilization to board responsibility and financial management. Students will have the opportunity to visit regional museums to learn first-hand about daily operations and administration. They will also have an opportunity to design their own museum.

**ANTH602 INTRO. TO
HISTORIC
PRESERVATION/CULTURAL
RESOURCE
MANAGEMENT 3 sem. hrs.**

This course examines public history and archaeology as they pertain to historic preservation and cultural resource management. Knowledge and applications of federal and state historic preservation laws to specific situations prepare the student to deal with real issues in the local, regional, state, federal, and tribal workplace. Assessing site significance, nominating a site for the national Register of Historic Places, and federal planning related to the Section 106 process are among the topics to be examined by the class.

**ANTH604 SEMINAR IN
MULTICULTURAL
AMERICA 3 sem. hrs.**

This course examines the history and culture of the many ethnic groups in the United States and how they create and maintain their identities within a changing society. It also traces the historical development of intragroup differences based on social class, gender, education, and age. It explores topics such as race, migration, religion, politics, the role of the family, physical and mental health, and the impact of ethnicity on mainstream American society.

**ANTH615 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.

**ANTH620 (GRADUATE
LEVEL) THE
ARCHAEOLOGY
OF THE BRITISH
ISLES 3 sem. hrs.**

This course surveys the cultures of the British Isles, as revealed in the archeological record, from the Paleolithic through the Middle Ages. Course work will be complemented by visits to the British Museum and a variety of relevant archaeological sites in England.

**ANTH664 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. Graduate students will demonstrate a deeper understanding of the complexities of medical anthropology (Culture, Illness and Curing) as determined by the instructor.

**ANTH671 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.

**ANTH673 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.

**ANTH674 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.

**ANTH678 (GRADUATE
LEVEL) NATIVE
AMERICA BEFORE
COLUMBUS 3 sem. hrs.**

This course surveys the development of Native American cultures, as revealed in the archeological record, for the first 20,000 years before European contact. Models are examined which describe and explain the interrelationships between pre-Columbian cultural systems and their respective cultural and physical environments. Special emphasis is placed upon examining interrelationships among the technological sociological and ideological subsystems of individual pre-Columbian Native American cultural systems. Prerequisite: Sophomore standing or permission of instructor.

**ANTH697 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.

Latin American Studies Courses

**LAS200 HERITAGE AND
CULTURE OF
PUERTO RICANS 3 sem. hrs.**

This course studies the culture and history of Puerto Rico by exploring its paradoxical status as a territory of the United States, and as a distinct culture. The

course will also focus on the internal battle between supporters and detractors of the independence movement on the island. Focus will also be given to the presence and influence of "mainland" Puerto Ricans and the role they play in the culture and history of the island.

LAS204 US INTERVENTIONS IN LATIN AMERICA 3 sem hrs.

This course examines the causes and results of US intervention in Latin America since 1820 from the perspective of the Americas. Using gender, race, ethnicity, and class as the historical and political backdrop, this course also analyzes the status of Latin America in the 19th and 20th centuries and its relationship to the United States. Fulfills Computer Competency.

LAS489/ THE MAYA EXPERIENCE 3 sem. hrs.

This course studies the culture, language, and history of the Maya from pre-contact to the present, and includes an examination of political, social, and economic influences. Special attention will be given to the importance of language and literature in understanding the Maya presence in today's world. This course is designed as a Study Abroad experience. Graduate students are required to demonstrate a deeper understanding of the complexities of the Maya Experience. Prerequisite: Junior standing or permission of instructor. General Education: D1 or 2.

LAS491/ GENDER, LANGUAGE AND CULTURAL IMAGES OF MEXICO 3 sem. hrs.

This course studies the culture and history of Mexico by examining issues related to gender, language and images. Using archaeological sites, monuments, and society at large, the course will also analyze the impact of tourism on Mexico's cultural and economical identity. This course is designed as a Study Abroad experience. Prerequisite: Junior standing or permission of instructor.

LAS495 INTERNSHIP IN LATIN AMERICAN STUDIES 3-12 sem. hrs.

This internship gives students the opportunity to apply, improve and develop skills through practical, on-the-job experience in business, research, government agencies or other professions related to Latin America. Time spent and the nature of the experience is usually under the direction of the employer and is used in determining the amount of credit earned. The student will also be responsible to the Edinboro University faculty internship advisor.

Social Science Courses

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.

SSCI401 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.

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.

Women's Studies Courses

WMST204 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.

WMST360 PHILOSOPHY AND FEMINISM 3 sem. hrs.

This course critically examines traditional and contemporary concepts of the moral social, and metaphysical 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.

MATHEMATICS AND COMPUTER SCIENCE DEPARTMENT

Computer Science Courses

CSCI104 ESSENTIAL COMPUTING I 3 sem. hrs.

This course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file management, and presentation software), Internet applications, and electronic mail applications. Students with credit in CSCI100 may not take this course to fulfill degree requirements. This course is approved for General Education – Computer Competency.

CSCI105 ESSENTIAL COMPUTING I (ALTERNATE) 3 sem. hrs.

This course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, file management, and presentation software), Internet applications, and electronic mail applications. Students with credit in CSCI104 may not take this course to fulfill degree requirements. (Permission of instructor with accommodations by OSD)

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.

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. This course is approved for General Education – Distribution 3, and Computer Competency.

CSCI204 ESSENTIAL COMPUTING II 3 sem. hrs.

This course is a continuation of CSCI104. Topics include a survey of computer hardware and software, computer programming, Internet applications, the use of productivity software (database and publishing packages), integration of application packages, and information systems. Prerequisite: CSCI104. This course is approved for General Education – Distribution 3.

**CSCI207 PROGRAMMING
IN VISUAL BASIC 3 sem. hrs.**

This course is a first course in computer programming using the Visual Basic? (VB) Language and an integrated development environment. Visual Basic is an object-oriented and event driven programming language. Students learn the VB supplied user interface objects and events for program control in combination with conventional programming techniques found in procedural programming languages. Emphasis is placed on applied problem solving, usability and design of Graphical User Interfaces, and program design. Pre-requisite: **CSCI125** or **CSCI204**. Note: Students with credits in CSCI117 may not take this course to fulfill degree requirements.

**CSCI230 PRINCIPLES OF
PROGRAMMING II 3 sem. hrs.**

This course continues CSCI130. Topics include recursion; several searching and sorting algorithms; and data structures such as stacks, queues, linear lists, trees, sets, and files, and their implementations. Prerequisite: **CSCI130**. This course is approved for General Education – Distribution 3.

**CSCI280 PRINCIPLES OF
SYSTEM
OPERATION AND
ADMINISTRATION 3 sem. hrs.**

This course acquaints students with the operation of computer devices and their operational concepts of a computer. It emphasizes the administration of computer systems and the understanding of operating system software. Prerequisite: **CSCI130** or **CSCI207**. Students with credit in CSCI140 may not take this course to fulfill degree requirements. This course is approved for General Education – Distribution 3.

**CSCI304 WEB DESIGN AND
IMPLEMENTATION 3 sem. hrs.**

This course explores web concepts and implementation issues. Topics include Internet, standards, website design and implementation, database, scripting and security issues. Each student designs and creates web-based projects. Prerequisite: **CSCI130** or **CSCI207** and **CSCI204** or **CSCI313**. This course is approved for General Education – Distribution 3.

**CSCI308 SYSTEMS
ANALYSIS 3 sem. hrs.**

This course introduces systems terminology and analytical techniques. Topics include: tools of the analyst; problem identification techniques; structural and dynamic process and data modeling; system requirements determination; system performance analysis; project feasibility; cost analysis; design considerations; component selection; and system documentation. Note: Students may not take both CSCI 208 and CSCI 308 to fulfill degree requirements. Prerequisite: **CSCI230**

**CSCI310 USES OF
MICROCOMPUTERS 3 sem. hrs.**

This course considers the microcomputer as a tool for data collection and analysis by focusing upon types of microcomputers, operating systems, communications, system use and management. Prerequisite: **CSCI230**.

**CSCI312 COMPUTER
ORGANIZATIONAND
ARCHITECTURE I 3 sem. hrs.**

This course introduces the structure and organization of modern computers. Topics include digital logic, sequential and combinational circuits, assembly language programming, basic machine organization, data representation, memory organization, fundamentals of input and output, and introduction to parallel architectures. Prerequisite: **CSCI 230**

**CSCI313 DATA BASE
MANAGEMENT
SYSTEMS 3 sem. hrs.**

This course presents the concepts and features of software systems known as data base management systems and their relationship to management information system applications. Topics include storage structures, data base definition, creation, implementation maintenance, retrieval, concurrency control, security and recovery. Note: May not take both CSCI213 and CSCI313 to fulfill degree requirements. Prerequisite: **CSCI230**.

**CSCI320 BUSINESS
PROGRAMMING
IN COBOL 3 sem. hrs.**

This course introduces the student to business programming concepts using the COBOL programming language. Topics will include data validation, table handling, sorting and merging techniques, interactive input and output, sequential, indexed sequential and relative file organizations, and writing and linking subprograms. Prerequisite: **CSCI230**.

**CSCI330 OBJECT-ORIENTED
PROGRAMMING 3 sem. hrs.**

This course provides a comprehensive study of object-oriented programming incorporating data structures and the standard template library. Topics include object-oriented concepts, object-oriented design, analysis and programming. Students prepare large programming assignments directed to develop competence in the concepts and language. Prerequisite: **CSCI230**.

**CSCI340 GAME
PROGRAMMING 3 sem hrs.**

This course is designed to familiarize the student with the programming tasks involved in developing computer games. Topics will include: advanced C++ programming, event-loop programming, artificial intelligence, static and dynamic 3D graphics programming. A game development environment will be employed by teams of students to implement a working game. Prerequisite: **CSCI 330**

CSCI354 AUTOMATA 3 sem. hrs.

This course introduces the fundamental concepts in automata theory and formal languages including finite automaton, regular expressions, regular languages, pushdown automaton, context-free languages, Turing machines, recursive languages, computability and solvability. Prerequisite: (**CSCI130** or **CSCI207**) and **MATH370**.

**CSCI360 INTRODUCTION
TO COMPUTER
GRAPHICS 3 sem. hrs.**

This course introduces students to the practices and underlying principles of computer graphics. Fundamental algorithms for generating two and three dimensional scenes are discussed. A standard graphics Application Programming Interface (API) is presented and used to develop projects. Prerequisites: **CSCI230** and **MATH275**.

**CSCI370 ARTIFICIAL
INTELLIGENCE 3 sem. hrs.**

This course provides a broad introduction to artificial intelligence as well as covering fundamental techniques underlying intelligent systems. The course also provides a more in-depth look at one or more subareas such as intelligent agents, machine learning, natural language processing, and robotics. Prerequisite: **CSCI230**.

**CSCI380 OPERATING
SYSTEMS 3 sem. hrs.**

This course introduces operating system concepts and implementations (data structures and algorithms). It covers process management, memory management, storage management and security. Case studies of current operating system implementations will be reviewed. Prerequisite: **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: **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.

**CSCI408 SOFTWARE
ENGINEERING 3 sem. hrs.**

This course applies the principles taught in CSCI 308 Systems Analysis and Design. It reviews the basic topics of requirements specifications, technical specifications and software design, and follows this with detailed software design, implementation, testing and maintenance of a substantial software system. Other topics include: project scheduling, personal management, effort estimation and risk management. Prerequisite: **CSCI308** or **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: **CSCI330** and **MATH270**.

**CSCI412 COMPUTER
ARCHITECTURE II 3 sem. hrs.**

This course continues CSCI312. It includes architectural and organizational features of contemporary hardware and software components for computer systems. Emphasis is on software development. Prerequisites: **CSCI312** and **MATH270**.

CSCI414 INFORMATION PROCESSING MANAGEMENT 3 sem. hrs.

This course is designed to provide computer science majors with a broad overview of the project management discipline and the knowledge to produce and evaluate a project management (PM) plan. The scope of the course pertains to projects involved either with modifying an existing information system (IS) already integrated in an operating organization, or with integrating a new commercial information system for an operation organization to use. Students taking this course learn what is involved in project initiation, planning and management, feasibility analysis, work identification, estimation, cost-analysis, scheduling, business case preparation, and tracking. Various types of projects found in organizations are surveyed. Practical exercises are enabled by employing spreadsheets and a commercial project management application. Prerequisite: **CSCI308**.

CSCI430 INTRODUCTION TO COMPILER DESIGN 3 sem. hrs.

This course introduces the basic concepts of compiler design and implementation – lexical analysis, syntactic and semantic analysis, intermediate code generation, optimization and target code generation. It presents topics from an implementation viewpoint. Students construct a compiler for a small language using **Standard compiler generation tools**. Prerequisites: **CSCI330 and MATH270**.

CSCI440 INTRODUCTION TO GAME DESIGN/ DEVELOPMENT 3 sem. hrs.

This course introduces the student to the processes involved in the development of video games. Topics will include conceptualization and storytelling, game play and interactivity, game theory, game physics, the use of sound in games, and the social/societal issues surrounding games. Emphasis will be placed on the fundamentals of both the artistic and technical perspectives of game design. Prerequisite: **CSCI340 and MATH 211**.

CSCI475 DATA COMMUNICATIONS AND NETWORKING 3 sem. hrs.

This course provides an overview of the basic principles and technologies of data communications and networking systems. Topics include transmission techniques, multiplexing, flow and error control, routing and congestion control. The course will introduce switched, broadcast and wireless networking technologies. TCP/IP and the OSI protocol architectures will be investigated. Prerequisites: **CSCI312 and MATH270**.

CSCI480 COMPUTER SCIENCE SEMINAR 3 sem. hr.

This seminar introduces upper level computer science majors to the principles of computer science research. Emphasis is on reading and presenting current research literature, formulating research problems, conducting a literature search using both library and Internet resources, and writing up the results of scientific inquiry. Additionally, social, ethical and legal issues in computing will be explored. Readings on a topical theme are selected by the instructor and vary from year to year, depending on the evolution of the frontiers of the science. Prerequisite: Students should have completed at least 18 hours of computer science courses and **MATH270**.

CSCI485 SENIOR PROJECT IN GAME DEVELOPMENT 3 sem. hrs.

This capstone course is designed to allow students to integrate the design, development and implementation concepts addressed within the game development curriculum into a functional software system. Students will work in groups to conceptualize a computer game, generate the design to include both technical and creative aspects, and begin implementation. Prerequisite: **CSCI440, MATH 300 and ART 348**.

CSCI490 INDEPENDENT STUDY 2-6 sem. hrs.

This experience is designed to meet the needs of students who wish to prepare individual studies or projects in the field of computer science under the direction of a member of the faculty of the Department of Mathematics and Computer Science. It is the student's responsibility to complete the required forms and to submit them for approval.

CSCI496 INTERNSHIP IN COMPUTER SCIENCE 3-15 sem. hrs.

The internship in computer science is intended to give the student an opportunity for on-the-job experience in theoretical or applied computer science. The internship shall incorporate meaningful productive experience usually during the junior year. Time spent and the nature of the experience is usually under the control of the local agency and is used in the determination of the amount of credit obtained. In addition to the hours spent on the job, the student shall also be responsible to the department Internship Coordinator. Prerequisite: Permission of the department Internship Coordinator.

Mathematics Courses

MATH020 BASIC ALGEBRA 3 sem. hrs.

For university students who do not have adequate preparation in algebra for college level courses, in this course whole numbers, fractions, decimals, signed numbers, variable expressions, linear equations and inequalities, exponents, polynomials, factoring, rational expressions, graphing, systems of linear equations, and quadratic equations are emphasized. (Course cannot be used to meet graduation requirements.)

MATH100 INTERMEDIATE ALGEBRA 3 sem. hrs.

This course is intended for non-mathematics majors who are not adequately prepared for **MATH105**. The course begins with a brief review of elementary algebra, and then emphasizes the following ideas: rational expressions and equations, radical expressions and equations, quadratic equations, and an introduction to functions and relations. Prerequisite: **MATH020** or placement score. (Course does not satisfy mathematics skill requirement for general education.)

MATH104 FINITE MATHEMATICS 3 sem. hrs.

This course provides study and experience in mathematical representations, processing, problem solving and thinking. Students analyze and solve problems in areas such as set theory, mathematics of finance, probability, and statistics. Note: Students may not receive credit for both Finite Mathematics

and Mathematical Reasoning I. Prerequisite: **MATH100** or an acceptable placement score. This course is approved for General Education – Skills.

MATH105 COLLEGE ALGEBRA 3 sem. hrs.

This course is intended for non-mathematics majors who have had the equivalent of two years of high school algebra. Topics include linear equations, complex numbers, functions and their graphs, linear and quadratic inequalities, absolute value inequalities, systems of equations, exponential and logarithmic functions. Prerequisite: **MATH100** 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: **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: high school algebra I and II and trigonometry, or **MATH105**. Must have earned a "C" or better in all prerequisite courses. This course is approved for General Education – Science and Mathematics Distribution.

MATH109 QUANTITATIVE REASONING 3 sem. hrs.

This class provides study in mathematical reasoning, problem solving, and thinking. Students analyze and solve problems in logic, graph theory, number systems, probability, and statistics. There will be an emphasis on multi-step, creative problem solving. Prerequisite: high school algebra I and II and admission to the Honors Program.

MATH110 MATHEMATICAL REASONING I 3 sem. hrs.

This course develops mathematical topics drawn from the areas of problem solving, measurement, geometry, probability, and statistics. This course promotes the development of a deep understanding of the underlying concepts of these mathematical topics while maintaining an appropriate level of mathematical precision. This is the first course of a two-course sequence intended to prepare students for the Praxis I examination. Note: Students may not receive credit for both Finite Mathematics and Mathematical Reasoning I. Prerequisite: **MATH020** or an acceptable placement score. This course is approved for General Education – Skills.

MATH150 APPLIED MATHEMATICS FOR BUSINESS 3 sem. hrs.

This course is designed to provide the mathematical foundation needed by students majoring in a business discipline. Topics include functions, functional models (linear quadratic, polynomial and rational), limits, and differentiation. Mathematical applications in business and economics are incorporated throughout the course. Prerequisite: **MATH100** or an acceptable placement score. Must have earned a "C" or better in all prerequisite course(s).

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**. 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: **MATH105** or high school algebra I and II. Must have earned a "C" or better in all prerequisite course(s). This course is approved for General Education – Distribution 3.

MATH210 MATHEMATICAL REASONING II 3 sem. hrs.

In this course students study number systems, set theory, and an extension of the natural numbers. Algorithms for performing operations will be developed. Various numeration systems are examined as well as number theory. Simple equations and inequalities will be introduced. This course promotes the development of a deep understanding of the underlying concepts of these mathematical topics while maintaining an appropriate level of mathematical precision. This is the second course of a two-course sequence intended to prepare students for the Praxis I examination. Prerequisite: **MATH110**. Must have earned a "C" or better in all prerequisite course(s). This course is approved for General Education – Science and Mathematics Distribution.

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, differentiation, and integration. Emphasis is placed upon the study of polynomial and rational functions. Prerequisite: **MATH107**. 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 MATH211. Topics include differentiation and integration of transcendental functions, techniques of integration, conic sections, polar coordinates, derivatives and area in polar coordinates, indeterminate forms, and improper integrals. Prerequisite: **MATH211**. Must have earned a "C" or better in all prerequisite course(s). 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 empha-

sized. This course is approved for General Education – Distribution 3. Prerequisite: **MATH105** or higher. Must have earned a "C" or better in all prerequisite course(s).

MATH260 ELEMENTS OF STATISTICS 3 sem. hrs.

This course, which is not intended for mathematics majors, introduces the basic concepts of statistics through intuitive approaches and stresses applications. Topics considered include descriptive measures, elementary probability, sampling, hypothesis testing, and estimation. Prerequisite: Any Math course 104 or higher, or an acceptable placement score. This course is approved for General Education - Distribution 3. Must have earned a "C" or better in all prerequisite course(s).

MATH270 DISCRETE MATHEMATICS I 3 sem. hrs.

This course introduces fundamental topics in mathematics. It emphasizes mathematical reasoning, proof writing and problem solving with a broad exposure to mathematical notation. Emphasis is placed on rigorous mathematical definitions and proof writing throughout the course. Topics include: formal logic, set theory, functions, elementary number theory and combinatorics. Prerequisite: **MATH208** or **MATH211**. Must have earned a "C" or better in all prerequisite course(s). (This course is approved for General Education Distribution – Science and Mathematics.)

MATH275 LINEAR ALGEBRA I 3 sem. hrs.

This course introduces matrices, systems of linear equations, vector spaces, determinants, linear transformations, eigenvalues, and eigenvectors. Computational aspects of matrices and applications of linear algebra will be emphasized. Prerequisite: **MATH107** or **MATH211** or **MATH208**. Must have earned a "C" or better in all prerequisite course(s). This course is approved for General Education – Distribution 3.

MATH300 APPLIED STATISTICAL METHODS/DATA ANALYSIS 3 sem hrs

This course focuses on the use of descriptive statistics, probability, introductory statistical inference, and data analysis in an applied setting. Students will be required to use appropriate software packages and calculators with statistical functionality in the course. Prerequisites: **Math208** or **Math211**. Must have earned a "C" or better in all prerequisite course(s). Note: Students cannot earn credit for MATH 260 after taking MATH 300. MATH 300 is not an acceptable upper-level mathematics elective for Mathematics and Mathematics–Actuarial Science majors. This course is approved for General Education Distribution 3.

MATH311 ANALYTICAL GEOMETRY AND CALCULUS III 4 sem. hrs.

This course continues MATH212. Topics include infinite series, two and three dimensional vectors, solid analytic geometry, functions of several variables, and multiple integration. Prerequisite: **MATH212**. Must have earned a "C" or better in all prerequisite course(s).

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).

MATH350 MATHEMATICAL PROBABILITY AND STATISTICS 3 sem. hrs.

In this course students study the basic concepts of mathematical probability emphasizing applications to solving practical problems in statistics. Topics considered include random variables, probability laws, expected value, probability mass functions, probability densities, sampling distributions, techniques of estimation, and an introduction to hypothesis testing. Prerequisite: **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.

MATH353 COLLEGE GEOMETRY 3 sem. hrs.

This is a course in elementary geometry from an advanced standpoint. The emphasis is on valid definitions and proofs of concepts and theorems already familiar to the student. Euclid's parallel postulate is not assumed until late in the course, in order to develop an appreciation for absolute geometry and the historical controversy over the parallel postulate. Prerequisite: **MATH270**. Must have earned a "C" or better in all prerequisite course(s).

MATH360 STATISTICAL INFERENCE 3 sem. hrs.

This course emphasizes statistical inference and presents basic concepts through intuitive approaches. It stresses applications and includes sampling variance, nonparametric tests, multiple and partial correlation, analysis of variance, and experimental design. Prerequisite: **MATH260** or **MATH350**. Must have earned a "C" or better in all prerequisite course(s).

MATH370 DISCRETE MATHEMATICS II 3 sem. hrs.

This course continues MATH270. Topics include: recurrence relations, relations, graph theory, and trees. Prerequisite: **MATH270**. Must have earned a "C" or better in all prerequisite course(s). This course is approved for General Education – Distribution 3.

MATH372 HISTORICAL ROOTS OF MATHEMATICS 3 sem. hrs.

This course covers the historical roots of elementary mathematics: arithmetic, algebra, geometry, and number systems. It discusses the origins of most of the topics included in the elementary and high school mathematics curricula. This course is particularly appropriate for the prospective teacher of mathematics. Prerequisite: **MATH270**. Must have earned a "C" or better in all prerequisite course(s).

MATH380 INTRO TO ACTUARIAL SCIENCE 2 sem. hrs.

This course introduces students to the career of actuarial science. Actuaries will be invited to give guest lectures on the work they do in their careers.

This course will prepare students to take the first professional actuarial test. This test covers insurance applications that utilize calculus and probability. Students are graded on a satisfactory/unsatisfactory basis. Prerequisites: **MATH311** and **MATH350**. Must have earned a "C" or better in all prerequisite course(s).

MATH385 ACTUARIAL MATH 3 sem. hrs.

This course introduces the modern mathematical foundation of actuarial science. It emphasizes the probability approach building on the development of the mathematics of probability, and considers the risk concept involved in decision theory. Prerequisites: **MATH350**, **MATH209**, **MATH212**, **MATH380** or consent of instructor. Must have earned a "C" or better in all prerequisite course(s).

MATH403 MATHEMATICS FOR THE SECONDARY SCHOOL TEACHER 3 sem. hrs.

This course correlates students' mathematical backgrounds with the mathematical techniques needed to meet NCTM 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. Prerequisite: **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: **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 **MATH270**. Must have earned a "C" or better in all prerequisite course(s).

MATH415 COMPLEX ANALYSIS 3 sem. hrs.

This course covers the basics of analysis over the complex numbers. It develops the analogues to differentiable and integrable functions from real analysis in the new setting with startlingly different results. The course emphasizes both computation and appropriate techniques of proof. Prerequisite: **MATH311** and **MATH270**. Must have earned a "C" or better in all prerequisite course(s).

MATH421 ABSTRACT ALGEBRA 3 sem. hrs.

Introduction to the concepts of abstract algebra with emphasis on examples. Topics include groups, subgroups, homomorphisms, rings, integral domains, and fields. Prerequisite: **MATH270**. Must have earned a "C" or better in all prerequisite course(s).

MATH450 ADVANCED MATHEMATICAL PROBABILITY AND STATISTICS 3 sem. hrs.

This course is a continuation of MATH 350. After reviewing the basics of probability and mathematical statistics, students will investigate additional theoretical topics. The core topics will include multivariate probability distributions, functions of random variables and their distributions, order statistics, moment generating functions, conditional expectation, and likelihood and sufficiency. Other special topics may be considered. Prerequisites: **MATH 311** and **MATH 350**. Must have earned a "C" or better in all prerequisite course(s).

MATH465 SURVEY OF MATHEMATICAL MODELING 3 sem. hrs.

This course serves as an introduction to the formulation, analysis, and interpretation of mathematical models in the natural sciences, the social sciences, industry, and medicine. Students will gain familiarity with problem-solving techniques employed throughout applied mathematics, as well as gain an appreciation for the role mathematics plays in a wide variety of disciplines. Prerequisites: **MATH311**, **MATH270**, **MATH275**, and **MATH350**. Must have earned a "C" or better in all prerequisite course(s).

MATH475 LINEAR ALGEBRA II 3 sem. hrs.

This course gives a rigorous development of the basic theory of linear algebra by building upon the concepts introduced in Linear Algebra I. Topics include inner product spaces, orthogonality, linear transformations, eigenvalues, and decomposition of matrices. Various applications of these topics will be explored. Prerequisites: **MATH211**, **MATH270**, and **MATH275**. Must have earned a "C" or better in all prerequisite course(s).

MATH480 MATHEMATICS SEMINAR 1 sem. hr.

Independent research: selection, discussion, and presentation of a problem selected by the student with the cooperation of instructor. Prerequisite: **MATH421** or **MATH350** or **MATH370** or **MATH411**, or permission of instructor. 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.

MATH510 NUMERICAL ANALYSIS 3 sem. hrs.

This course introduces students to classical and modern approximation techniques. Various methods and algorithms will be investigated for solving equations and interpolating data. Other topics include error analysis, numerical differentiation, numerical integration, and solving of differential equations. Prerequisites: **MATH311** and **MATH270**. Must have earned a "C" or better in all prerequisite course(s).

MILITARY SCIENCE DEPARTMENT

Military Science Courses

The Edinboro Army Military Science program is divided into two courses of instruction: basic and advanced.

The basic course refers to the first two years of the four year ROTC program and includes the MS I and MS II military science classes. The basic course introduces the cadet to the Army and the Army to the student. A number of popular and challenging extra-curricular activities is associated with these courses. Initial instruction is intended to create a working knowledge of ROTC and the Army. The basic course is open to all students with no obligation for future military service.

Selected students, who meet qualification standards, may enter the advanced course. The advanced course, taught during the third and fourth years, includes such topics as management theory, personal and performance counseling, ethics, professionalism, written and verbal communications, military law, law of war, and study of military tactics. The main objective of the advanced course is to develop leaders to be officers in the U.S. Army. The advanced course is open to qualified cadets who have completed the basic course (or received credit for the basic course – see leaders training course below). A military commitment is incurred upon contracting into the advanced course.

MILS101 LEADERSHIP AND PERSONAL DEVELOPMENT 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 TACTICAL 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 INNOVATIVE TEAM LEADERSHIP 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 FOUNDATIONS OF TACTICAL LEADERSHIP 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 ADAPTIVE TACTICAL LEADERSHIP 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 LEADERSHIP IN CHANGING ENVIRONMENTS 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 DEVELOPING ADAPTIVE LEADERS 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 LEADERSHIP IN A COMPLEX WORLD 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 DEPARTMENT

Music Education Courses

MUED216 METHODS IN ELEMENTARY AND GENERAL MUSIC TEACHING 3 sem. hrs.

This course will prepare the student to teach music at the elementary and middle levels. Students must take this course concurrently with MUED217. For music majors only. This course is approved for General Education – Computer Competency.

MUED217 ELEMENTARY MUSIC FIELD EXPERIENCE 3 sem. hrs.

This course orients students to elementary and general music programs in public schools through observations. Students should take this course concurrently with **MUED216**. For music majors only.

MUED322 MUSIC FOR THE YOUNG CHILD 3 sem. hrs.

Included in this course are methods, materials, and procedures in music related to pre-school, kindergarten, and primary grades. An understanding of the nature and special needs of the young child is stressed.

MUED418 METHODS IN SECONDARY INSTRUMENTAL AND VOCAL METHODS 3 sem. hrs.

This course will prepare the student to teach instrumental and vocal music at the secondary level. Prerequisites: **MUED216** and **MUED217**.

MUED419 SECONDARY MUSIC FIELD EXPERIENCE 1 sem. hr.

This course orients students to secondary music programs in public schools through supervised observations. Students must take this course concurrently with **MUED418**. For music majors only.

MUED495 STUDENT TEACHING 12 sem. hrs.

This culminating experience, supervised by Music Department faculty, provides teaching opportunities to display competency in general, instrumental and vocal music programs in elementary, middle, and secondary schools. Prerequisites: teacher certification requirements.

Music Courses

Ensembles

Ensembles may be taken for 1 credit. Ensembles may be repeated for credit. A maximum of four (4) semester hours may be used as free electives for non-music majors. Music majors may count up to seven (7) ensemble credits toward the 120 hour curriculum. Ensemble limitation, director acceptance, and advisor agreement will determine enrollment in ensembles.

MUSC051 MARCHING BAND 1 sem. hr.

The *Spirit of the Scots* Marching Band consists of musicians, Tam-O-Shanters (dance line), and Color Guard members. The Marching Band performs at all home football games and accompanies the team on selected out-of-town trips each year. The Marching Band also performs at professional football games and at high school marching band festivals and competitions. Membership is open to any interested student. Auditions for the Tam-O-Shanters and Color Guard are held on campus each spring.

MUSC053 UNIVERSITY CHORALE 1 sem. hr.

University Chorale is an ensemble specializing in choral literature of all ages, preparing concerts for tours of the area and on campus. (Prerequisite: Permission of the instructor determined by audition.)

MUSC054 UNIVERSITY SINGERS 1 sem. hr.

The University Singers is a large ensemble formed by the union of the choral ensembles on campus, performing the literature of the masters, usually in conjunction with the orchestra or one of the bands. (Prerequisite: Permission of the instructor determined by audition.)

MUSC058 JAZZ ENSEMBLE 1 sem. hr.

The Edinboro University Jazz Ensemble is a performance organization which performs the finest jazz repertory available. The ensemble presents concerts throughout the year at various locations on and off campus. Membership is open to all students. Prerequisite: Permission of the instructor, determined by audition.

MUSC059 JAZZ COMBO 1 sem. hr.

Students enrolled in Jazz Combo will be grouped into small ensembles that will work on performance and improvisation of jazz. Groups will perform each semester in a variety of venues both on and off campus. A fundamental understanding of scales,

modes and seventh chords is required. Membership is open to all students. MUSC059 may be repeated for credit. Prerequisite: permission of the instructor, determined by audition.

MUSC060 ORCHESTRA 1 sem. hr.

MUSC061 BRASS CHOIR 1 sem. hr.

MUSC062 WOODWIND CHOIR 1 sem. hr.

MUSC063 PERCUSSION ENSEMBLE 1 sem. hr.

MUSC065 SYMPHONIC WIND ENSEMBLE 1 sem. hr.

The Symphonic Wind Ensemble is open to all regularly enrolled students regardless of major. It performs the finest repertoire in original band music as well as orchestral transcriptions. In addition to its regular Edinboro University concert series, the Symphonic Wind Ensemble provides music for Commencement ceremonies. Prerequisite: Permission of the instructor, determined by audition.

MUSC066 OPERA WORKSHOP 1 sem. hr.

MUSC067 PIANO ACCOMPANYING ENSEMBLE 1 sem. hr.

This course provides students with piano accompanying opportunities under the supervision of piano faculty.

MUSC068 UNIVERSITY WOMEN'S CHORUS 1 sem. hr.

University Women's Chorus may be taken for one credit or no credit, and may be repeated for credit. A maximum of four semester hours may be used as free electives for non-music majors. The Edinboro University Women's Chorus allows students to experience a broad range of choral literature, to communicate effectively with an audience, to develop sensitivity to the requirements of ensemble performance, and to experience a wide variety of pedagogical choral strategies.

MUSC069 PEP BAND 1 sem. hr.

The Pep Band is a highly spirited and close-knit group that performs at all men's home basketball games and at select women's games. The band also performs at local post-season tournament basketball games. Membership is open to all University students.

MUSC070 GUITAR ENSEMBLE 1 sem. hr.

Guitar Ensemble prepares music for two or more guitars for public performance. Guitar accompaniment for vocal or instrumental soloists may also be a part of the ensemble repertoire. Prerequisite: Permission of the Instructor as determined by audition.

MUSC071 STRING ENSEMBLE 1 sem. hr.

String Ensemble concentrates on chamber literature for string groups. The ensemble is open to any student with appropriate stringed instrument background.

MUSC072 PIPE BAND 1 sem. hr.

The Pipe Band prepares music for an ensemble of bagpipes and percussion for public performance. Music to be selected for the Pipe Band will be chosen for its appropriateness with respect to the number of performers in the group and their capabilities. The ensemble is open to any student.

MUSC073 UNIVERSITY MEN'S CHORUS 1 sem. hr.

The University Men's Chorus is open to members of the local and campus community. The ensemble performs excellent literature for men's voices and, in conjunction with other campus choirs, literature for mixed voices. This course enables its members to experience a broad range of choral literature, to develop skills in vocal performance, to communicate effectively with an audience, to develop sensitivity to the requirements of ensemble performance, and to experience a wide variety of pedagogical choral strategies.

MUSC010 BASIC MUSICIANSHIP 3 sem. hrs.

This course for majors deficient in basic theoretical constructs emphasizes musical rudiments. Placement in the course is determined by examination given before the start of the semester. This course is offered on a Satisfactory/Unsatisfactory grading basis only, and the credits do not count toward graduation.

MUSC103 INTRODUCTION TO MUSIC 3 sem. hrs.

This course introduces the student to music heard throughout the world today. It includes Western, non-Western, folk, jazz, and modern music. This course is approved for General Education – Core 1.

MUSC104 AURAL SKILLS I 1 sem. hr.

This course introduces the fundamentals of solfege and ear training.

MUSC110 RECREATIONAL PIANO I 1 sem. hr.

This is an introductory course to teach very basic piano skills to students with limited or no musical background. The approach will be a combination of note and reading skills, improvisation, and simple chording. Not open to music majors.

MUSC113 CLASS VOICE I 1 sem. hr.

This course is the study of voice by group instruction. Included are essentials of vocal techniques and standard song repertoire.

MUSC119 GUITAR CLASS 1 sem. hr.

A laboratory course designed to enable music education majors and non-majors to acquire elementary proficiency in guitar techniques. Students must provide their own instruments.

MUSC121 MUSIC THEORY I 3 sem. hrs.

This course offers comprehensive work in diatonic harmony. It includes written work, analysis and composition. Prerequisite: Satisfactory performance on a diagnostic theory placement test or MUSC010.

MUSC136 PIANO LAB I 1 sem. hr.

This course introduces keyboard technique and basic music skills. It requires little or no piano background. Designed for music majors.

MUSC137 PIANO LAB II 1 sem. hr.

This course continues Piano Lab I. It introduces intermediate keyboard and theoretical skills. Prerequisite: MUSC136 or permission of instructor.

MUSC130- APPLIED MUSIC each 1 sem. hr. 435

Applied instruction will continue the development of repertoire, exercises, and special techniques leading to the satisfactory attainment of proficiencies as established by the Department. Credit for Applied Music is given on the basis of 1 semester hour credit for each 1/2 hour lesson a week. The following are included in Applied Music instruction: voice, piano, flute, oboe, clarinet, saxophone, bassoon, horn, trumpet, trombone, euphonium, tuba, violin, viola, cello, bass, percussion, organ, bagpipes and guitar.

MUSC201 FUNDAMENTALS OF MUSIC 3 sem. hrs.

This course acquaints students with musical notation, the basic materials and elements of the musical language, piano and recorder techniques, and independent singing of simple songs. Not open to music majors. This course is approved for General Education – Distribution 1.

MUSC202 GUITAR FUNDAMENTALS 3 sem. hrs.

This course acquaints students with musical notation, introduces them to basic theoretical principles, and provides them with a rudimentary guitar technique and applies music theory to guitar performance.

MUSC204 AURAL SKILLS II 1 sem. hr.

This course continues Aural Skills I with emphasis on intermediate solfege ear training skills. Prerequisite: MUSC104 or permission of the instructor.

MUSC206 AURAL SKILLS III 1 sem. hr.

This course continues Aural Skills II with emphasis on advanced solfege and ear training skills. Prerequisite: MUSC204 or permission of the instructor.

MUSC207 JAZZ IMPROVISATION 3 sem. hrs.

This course introduces jazz improvisation. Various styles from traditional to free jazz will be experienced through listening, analysis and performance. Prerequisite: MUSC121 or consent of the instructor.

MUSC211 WORLD MUSIC 3 sem. hrs.

This course introduces students to music from outside the sphere of western influence and examines its cultural function. This course is approved for General Education – Distribution 1.

MUSC213 WOODWIND CLASS I 1 sem. hr.

An introduction to playing and teaching the clarinet and saxophone. Students will be expected to develop an elementary proficiency on each instrument. Music majors only.

MUSC215 STRING CLASS I 1 sem. hr.

An introduction to playing and teaching the string instruments. Techniques of tone production, bowing, fingering, and class procedure learned through individual and ensemble playing. Music majors only.

MUSC216 STRING CLASS II 1 sem. hr.

The course will emphasize the practical application of string techniques and specific problems in string pedagogy. Prerequisite: MUSC215.

MUSC219 MARCHING BAND TECHNIQUES 1 sem. hr.

This course includes basic marching band techniques with practical secondary public school applications in drill design, rehearsal techniques, and the administration of the marching band. It introduces computer software for drill design/animation. This course is approved for General Education – Computer Competency.

MUSC220 STAGEBAND TECHNIQUES 1 sem. hr.

The organization, materials, and rehearsal problems of the large jazz ensemble of today's schools and colleges.

MUSC221 MUSIC THEORY II 3 sem. hrs.

This course continues Music Theory I and provides comprehensive work in chromatic harmony and analysis. It includes written work, analysis and composition. Prerequisite: **MUSC121** or permission of the instructor.

MUSC222 MUSIC THEORY III 3 sem. hrs.

This course continues the work of Music Theory II, emphasizes chromaticism in tonal music and introduces 20th century musical techniques through written work, analysis and composition. Prerequisite: **MUSC221** or permission of the instructor.

MUSC223 DICTION FOR SINGERS 1 sem. hr.

This course introduces the solo/choral singer, choral conductor and vocal instructor to the International Phonetic Alphabet and its application to vocal music. It presents rules of transcription and applies them to texts taken from the English, German, Italian, French and Latin vocal music repertoire. Prerequisite: **MUSC130**, **MUSC113**, or permission of the instructor.

MUSC240 MUSIC OF BROADWAY 3 sem. hrs.

This course acquaints students with the cultural heritage and historical development of popular music for the American stage from the ballad operas of the 18th century to contemporary Broadway musicals. It includes listening to and discussing various recordings of minstrel shows, operettas, musical comedies, and current Broadway shows. Not open to music majors. This course is approved for General Education – Distribution 1.

MUSC241 MUSIC AND THE MEDIA 3 sem. hrs.

Students study the role of music relative to contemporary broadcast media, film and society. Discussions include the evolution of music in the popular culture, its influence on society and its psychological impact in advertising, radio, television, film and other genre. Not open to music majors. This course is approved for General Education – Distribution 1.

MUSC246 MUSIC IN WORSHIP 3 sem. hrs.

The course examines the use of music in church and synagogue and the historical roots from which present practices have evolved, including Protestant, Catholic, Orthodox and Jewish traditions. Various musical forms and examples will be heard and discussed.

MUSC247 MUSIC, GENDER, AND IDENTITY 3 sem. hrs.

This course will examine the recent interest in the role of gender and social/cultural construction of sexual identities in shaping music. In addition, an awareness of women, gay men, lesbians, and transgendered people as composers, improvisers, song writers and sound artists will be explored to gain an historical perspective of their role in music. This course is approved for General Education – Core 5.

MUSC250 MUSIC HISTORY I 3 sem. hrs.

This course examines the history and styles of Western music from its ancient origins to approximately 1750. Prerequisite: **MUSC103** (for majors).

MUSC251 MUSIC HISTORY II 3 sem. hrs.

This course examines the history and styles of classical, romantic, and 20th century music. Both western and non-western music will be considered from a historical and analytical perspective. Prerequisite: **MUSC103** (for majors).

MUSC304 TWENTIETH CENTURY TECHNIQUES 3 sem. hrs.

This course examines the changing language of music in the twentieth century, from Debussy to the present. It emphasizes and compares twentieth century compositional procedures. Prerequisite: **MUSC222** or permission of the instructor.

MUSC305 TECHNIQUES OF ACCOMPANYING 1 sem. hr.

This course is designed for keyboard majors and others with advanced keyboard skills. Emphasis is on the development of the technical and artistic skills of accompanying through the study of accompaniment literature. Prerequisite: **MUSC130** (Applied Piano) or permission of the instructor.

MUSC307 OPERA 3 sem. hrs.

This course surveys opera from its beginnings in the Baroque period to the present. It emphasizes viewing and listening to operas from the repertoire that influenced the course of opera history. Prerequisite: **MUSC103**.

MUSC312 ADVANCED KEYBOARD TECHNIQUES 1 sem. hr.

This course for keyboard majors and others with advanced keyboard skills emphasizes comprehension in reading, skill in interpretation, and facility in execution. Prerequisite: **MUSC130** (Applied Piano) or permission of instructor.

MUSC314 WOODWIND CLASS II 1 sem. hr.

An introduction to playing and teaching the flute, oboe, and bassoon. Students will be expected to develop an elementary proficiency on each instrument. Music majors only.

MUSC317 BRASS CLASS 1 sem. hr.

An introduction to playing and teaching the brass instruments. Techniques of tone production, fingering, and class procedure learned through individual and ensemble playing. Music majors only.

MUSC318 PERCUSSION CLASS 1 sem. hr.

All standard percussion instruments will be studied. Students will be expected to develop an elementary proficiency on several instruments. Music majors only.

MUSC320 INTRODUCTION TO ARRANGING 2 sem. hrs.

This course introduces music majors to basic concepts in arranging through both analysis and composition. Prerequisite: **MUSC222** or permission of the instructor.

MUSC322 BASIC CONDUCTING 1 sem. hr.

This course is an introduction to the fundamentals of conducting techniques, including the use of the baton, expressive gestures, basic patterns and score reading in the areas of choral, wind, and orchestral music. Prerequisite: **MUSC121** or permission of the instructor.

MUSC326 MUSICAL FORMS AND ANALYSIS 2 sem. hrs.

This course, for music majors only, introduces the fundamentals of musical structure from the simple phrase to the more complex forms. Prerequisite: **MUSC222** or permission of the instructor.

MUSC327 ADVANCED CHORAL CONDUCTING 2 sem. hrs.

This course gives an in-depth study to techniques of choral conducting. It emphasizes musical expression, use of the left hand, rehearsal techniques, and concert programming. Prerequisite: **MUSC322**.

MUSC328 ADVANCED INSTRUMENTAL CONDUCTING 2 sem. hrs.

This course offers an in-depth study of the techniques of instrumental conducting. It emphasizes development of technical and artistic skills and the communication of those skills. Prerequisite: **MUSC322**.

MUSC343 EVOLUTION OF JAZZ 3 sem. hrs.

This course examines the evolution of jazz music from its inception to its current styles, and studies characteristics of several music styles together with important performers and literature. This course is approved for General Education – Distribution 1.

MUSC344 AMERICAN MUSIC 3 sem. hrs.

This course presents a comprehensive overview of the history of American music. The approach is basically historical, but there is also a strong emphasis on listening to representative examples of music from various periods in the development of our country's musical heritage. This course is approved for General Education – Distribution 1.

MUSC404 CHORAL LITERATURE 3 sem. hrs.

This course presents major choral works from the Renaissance to the present, and emphasizes resources and styles of each period. Prerequisite: **MUSC221** and **MUSC103** or permission of the instructor.

MUSC412 FORM AND COMPOSITION 3 sem. hrs.

The student will compose songs, works for solo instruments with piano, and voices and instruments in combination. Prerequisite: **MUSC222** or consent of the instructor.

MUSC416 INSTRUMENTAL ARRANGING 3 sem. hrs.

This course provides a hands-on experience in arranging music for various combinations of instruments. Activities include transcription, orchestration, and arranging through MIDI sequencing techniques. Prerequisite: **MUSC222** or permission of the instructor. This course is approved for General Education – Computer Competency.

MUSC417 CHORAL ARRANGING 3 sem. hrs.

An introduction to the techniques of arranging for various vocal ensembles with emphasis on the music in smaller forms for school use. Prerequisite: **MUSC222** or consent of the instructor.

MUSC490 INDEPENDENT STUDY IN MUSIC 2-5 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

MUSC503 MUSIC OF THE BRITISH ISLES 3 sem. hrs.

This course examines the music and musical traditions of the British Isles. It emphasizes original art music by native and foreign composers and investigates indigenous folk music.

MUSC514 COUNTERPOINT I 3 sem. hrs.

The study of 17th and 18th century contrapuntal techniques with emphasis on basic technique through the writing of species counterpoint, 2 and 3-part inventions and forms based on the chorale. Development of writing skills will be accomplished through assigned exercises and original work, as well as through analysis of the music of Bach. Prerequisites: **MUSC222** or consent of the instructor.

NURSING DEPARTMENT

Nursing Courses

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 tech-

niques to maximize adaptation to stress. The emphasis will be on experiential activities in and out of the classroom to help the student explore the adaptive use of social supports, resources and coping mechanisms to deal with the stresses of today's social culture. In addition, it will investigate stress factors and responses in vulnerable populations. Prerequisite: **PSYC 101**.

NUHL425 DISASTER RESPONSE AND RECOVERY 3 sem. hrs.

This course is designed to provide students with the theory and evidence-based practice principles needed to apply primary, secondary, and tertiary care during and after disasters. Emphasis is on the role of the professional in collaboration with the multidisciplinary team during the triage and follow-up care of disaster victims. Prerequisites: Graduate degree students with permission of instructor. Bachelor degree students who have junior standing and have permission of instructor. Preference is given to disciplines such as human services, psychology, sciences, and educational leadership.

NUHL500 END-OF-LIFE CARE 3 sem. hrs.

This course prepares the professional student from a variety of disciplines to deliver care to patients and their families facing terminal illness. The course emphasizes aspects of nursing care that enable students to address the physical, psychosocial, and spiritual needs of patients and families at life's end. Ethical and legal issues concerning end-of-life care are explored.

NUHL505 GERONTOLOGY AND THE HEALTHCARE PROFESSIONAL 2 sem. hrs.

This theory course is designed to address core values, knowledge, and competencies that are essential in preparing the healthcare professional to care for an increasingly aged population. Content includes a holistic geriatric-focused assessment, including the influence of culture, gender, life style, family, and other factors on the well being 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.

NUHL560 PALLIATIVE AND END-OF-LIFE CARE 3 sem. hrs.

This introductory course will provide a foundation for the understanding of a multidisciplinary approach to palliative and end of life care. Participants will explore their own attitudes, feelings, values and beliefs about end-of-life issues as they assess multiple dimensions of care including physical, psychological, social and spiritual aspects. National, ethical and legal issues concerning palliative and end-of-life care will be explored. Prerequisites: Admission into certificate program or permission of instructor.

NUHL561 CLINICAL ISSUES IN PALLIATIVE CARE 3 sem. hrs.

In lecture and seminar format, participants will focus on aspects of multidisciplinary advanced practice in palliative and end of life care, including symptom management, pain control, and therapeutic communication skills. Specific disease trajectories will be explored. Evidence-based practice guidelines will be included.

Prerequisites: **NUHL560**.

NUHL562 END OF LIFE, BEREAVEMENT, GRIEF, AND BEYOND 3 sem. hrs.

Theory and seminar format will focus on the act of dying across the life span with different illness trajectories. Communication with families, cultural and spiritual rites around dying will be explored. The use of the multidisciplinary team in this end phase of life into the active grief and grieving phase will be emphasized. Plans for moving beyond the individual death into healing for the family will be formulated. Prerequisite: Permission of instructor.

NUHL563 CLINICAL MANAGEMENT OF THE PATIENTS AND FAMILIES IN PALLIATIVE AND END-OF-LIFE CARE 6 sem. hrs.

This clinical practice course is designed for student participants to develop skills in palliative and end of life care of patients and families. Emphasis will be on collaborative and multidisciplinary practice. A variety of clinical and home care settings will be utilized, depending on the student's professional discipline. A two-hour clinical conference every two weeks will be used to discuss progress. **NUHL 560, NUHL 561 and NUHL 562**.

NURS200 INTRODUCTION TO PROFESSIONAL NURSING 1 sem. hrs.

This course is designed for the licensed practical or registered nurse returning to the educational arena in pursuit of a baccalaureate degree in nursing. Course content emphasizes the introduction of concepts and theories underlying professional practice and focuses upon integrating new role expectations. Students will build on previous knowledge from the humanities, nursing, medical, physical and behavioral sciences as they learn how to conduct a culturally sensitive nursing assessment and identify patient problems utilizing Gordon's Functional

Health Patterns and the NANDA classification system. Barriers to providing efficient, effective, quality health care are examined within a research context to provide a foundation for evidence-based practice. The nursing process is presented as an organizing framework for professional practice, and legal and ethical issues that impact care delivery are explored. Prerequisites: **BIOL312, BIOL313, PSYC101, SOC100** or concurrent course: **BIOL308**. This course is required only for students currently holding RN or LPN licensure.

NURS201 NURSING ASSESSMENT 3 sem. hrs.

This course is the first of a two-semester introductory course in nursing. Content prepares the student to obtain a holistic assessment of adult individuals including health history and physical assessment within a cultural context. Emphasis is placed on communication, adult and aging adult assessment, application of Gordon's Functional Health Patterns, and introduction to research concepts. The nursing process is introduced as the organizing framework for nursing practice, and the role of the nurse as provider of care is explored. Clinical laboratory focuses on the role of data gatherer through the development of assessment and communication skills. Prerequisites: **CHEM140, CHEM141, BIOL312, BIOL313, PSYC101, SOC100**. Concurrent **BIOL308** or **318**.

NURS202 FUNDAMENTAL NURSING INTERVENTIONS 4 sem. hrs.

This course builds on material introduced in NURS201, communication skills and nursing assessment. Content prepares the nursing students to provide therapeutic nursing interventions to clinically stable patients experiencing minor health deviations. Emphasis is on the role of the nurse as provider of culturally sensitive care to individuals. Clinical laboratory provides opportunities to perform the skills and nursing actions that promote and assist patients in meeting their needs. The relationship of nursing research to practice is explored. Prerequisites: **BIOL308** or **BIOL318, NURS201** or concurrent course **NURS435**.

NURS301 MATERNAL/NEWBORN/FAMILY-CENTERED NURSING 5 sem. hrs.

This course is designed to provide students with the nursing theory and evidence-based practice principles needed to recognize and promote health during pregnancy and childbirth. The belief that pregnancy, childbirth, and developmental changes in a woman's life are natural processes and are essentially wellness-focused pervades the course content. Students are challenged to assimilate new knowledge and develop technical and critical thinking skills when caring for women, newborns, and families. Legal and ethical considerations impacting the health care needs of women and newborns are explored. Students develop greater competency in health assessment, data interpretation, psychomotor skills, communication techniques, and health teaching of expectant parents and families. As coordinator of care, students assume a patient advocacy role in collaboration with the interdisciplinary team in mobilizing and supporting family strengths to foster optimum reproductive outcomes or manage reproductive complications. Prerequisites for all students: **NUTR310, NURS435**. Prerequisite or concurrent courses: **PSYC317, NURS320**.

NURS302 PEDIATRIC AND FAMILY-CENTERED NURSING 5 sem. hrs.

This course is designed to assist students in meeting the health care needs of children and their families. Emphasis is placed on clinical judgment, decision-making skills, prioritization of nursing diagnoses, and application of research-based knowledge in planning care. Technical skills and increasingly sophisticated health care technologies are incorporated in the delivery of culturally-sensitive care to children and families in a variety of clinical settings. Students' clinical practice incorporates legal guidelines and ethical decision-making related to issues of quality of care, use of health care resources, and end-of-life care. Students demonstrate therapeutic communication skills and understanding of teaching-learning principles to meet the health education needs of children and families. Students assume the role of patient advocate to establish a dynamic and interactive relationship with the interdisciplinary health care team to coordinate care of children and families.. Concurrent with **NURS301**. Prerequisites for all students: **NUTR310, NURS435**. Prerequisite or concurrent courses: **PSYC317, NURS320**.

NURS303 ADULT HEALTH NURSING I 7 sem. hrs.

This course is designed to build on previous learning and provide students with theory and research related to common adult health problems and their collaborative management. Emphasis is on delivery of culturally-sensitive care to individuals with adult-health problems and their families with the student functioning in the role of coordinator of care. Students adopt professional attitudes and advocate for patients with complex care needs and their families. They develop greater proficiency with interpretation of patient data as well as technical skill performance. Students also build on previously learned communication skills in their interviewing/teaching/interacting with patients and families as well as the development of collegial relationships within the interdisciplinary team. Prerequisites for all students: **NUTR310, NURS202, NURS435**. Prerequisite or concurrent courses: **PSYC319, NURS320**.

NURS320 PHARMACOTHERAPEUTICS IN NURSING 3 sem. hrs.

This course presents principles of pharmacotherapeutics applicable to professional nursing practice. It emphasizes the nurse's collaborative role and responsibilities related to safe medication administration utilizing the nursing process. Specifically, this course will address drug safety, classification, mechanism of action, usual dose, interactions, side/adverse effects, contraindications, and nursing responsibilities. Prerequisites for all students: **NURS202**. Innovative: Coreq with **NURS435** and **NURS455**.

NURS400 NURSING LEADERSHIP 3 sem. hrs.

This course is designed to provide the student with the opportunity to synthesize knowledge within a leadership/management role. Emphasis is placed on professional role development within the context of leader, change agent, and designer/manager of care. A broad scope of nursing practice is examined that encompasses the roles of patient care provider and patient care manager. Health care and nursing are analyzed within a service and business context, and specific leadership initiatives are explored. Issues related to health care delivery, advocacy, evolving

health care systems, organizational structure, quality improvement, financial management, and delegation/supervision are examined from a theoretical and practical perspective. The effects of ethical, legal, and regulatory processes are explored. Knowledge and behaviors consistent with professional practice and based in nursing research are stressed within a paradigm that views the nurse as a leader and collaborator within the interdisciplinary health care team. Prerequisites for all students: **NURS301, NURS302, NURS303, NURS320, NURS435**. Innovative: Prereq: **NURS461, 464, 467**.

NURS401 COMMUNITY HEALTH NURSING 5 sem. hrs.

This course is designed to assist the student in synthesizing data and applying knowledge, which focuses on modifying health-promoting behaviors from a community and global perspective. Emphasis is on using a problem solving approach with multiple individuals, families, and groups to provide culturally sensitive care in community settings. Students develop health-promoting interventions through application of the nursing process, utilization of Gordon's Functional Health Patterns and establishment of community partnerships. They practice as designers/managers of care with at risk groups in the community by assuming the facilitator role in collaboration with interdisciplinary team members within the community. Students gain an appreciation for their role as change agents and their need to be actively involved in research to guide the development of health care policy. Concurrent with **NURS402**, except for students currently holding RN licensure. Prerequisites for all students: **NURS301, NURS302, NURS303, NURS320, NURS435**. Prerequisite or concurrent course: **NURS400**.

NURS402 MENTAL HEALTH NURSING 5 sem. hrs.

This course is designed to prepare the student to provide culturally competent nursing care for children, adolescents, and adults with acute and chronic mental/behavioral health problems and coping deficits. Emphasis is placed on psychological development, psychopathology, patient education, treatment modalities and therapeutic nurse-patient relationships. Clinical learning experiences are planned to assist students to assume the role of designer/manager of care. The students utilize knowledge from the sciences and humanities, critical thinking, and the nursing process to synthesize data and provide a research based and outcome oriented approach to nursing care. The students use therapeutic communication skills and creative problem solving approaches with individuals, families, and groups to promote the patient's maximum level of mental, physical and spiritual health in their environment. In addition, the students interact as a facilitator with members of the interdisciplinary team. Concurrent with **NURS401**. Prerequisites: **NURS301, NURS302, NURS303, NURS320, NURS435**.

NURS403 ADULT HEALTH NURSING II 7 sem. hrs.

This course is designed to build on previous learning and provide students with theory related to unstable adult health problems and their collaborative management. Emphasis is on the delivery of culturally-competent care to multiple individuals and their families when adult-health problems are more complex and outcomes are less predictable. Students function in the role of designer/manager of care in a variety of clinical settings while caring for diverse patient populations. They incorporate leadership and

management behaviors within their evolving role. They assume an active role in clinical decision making and data synthesis in the management of complex patient assignments and patients experiencing multi-system failure and/or life-threatening events. In their expanded role as designer/manager of care, students assume an active role of advocacy aimed at quality care and cost containment and apply principles of delegation and supervision. They are encouraged to develop research-based creative problem-solving approaches when providing health care and to exhibit leadership skills as effective change agents within the evolving health care delivery system. Students build on previously learned communication skills and learn techniques to facilitate problem solving, modify health behavior, and incorporate leadership/management principles as integral members of the health care team. Prerequisites for all students: **NURS301, NURS302, NURS303, NURS320, NURS435**. Prerequisite or concurrent course: **NURS400**.

NURS406 ROLE OF THE PROFESSIONAL NURSE 3 sem. hrs.

The registered nurse student will be introduced to baccalaureate-level nursing roles, concepts, and theories to integrate new role expectations in professional practice. Gordon's Functional Health Patterns and the NANDA classification system is the framework for identifying health problems based on data collected through patient health history and physical assessment. Nursing theory and research are introduced by application to evidence-based practice. Prerequisites: Acceptance into the online RN to BSN program.

NURS407 TRENDS AND ISSUES IN PROFESSIONAL NURSING 3 sem. hrs.

This course examines issues that affect nurses and the healthcare systems in which they practice. Topics relate to nursing practice, nursing education, and the impact they have on patient care. Recognizing the dynamic nature of the nursing profession, in addition to the outlined content, time is allotted to discuss up-to-the-moment situations faced by the registered nurse student in current practice. Prerequisite: **NURS406**.

NURS408 NURSING LEADERSHIP AND MANAGEMENT 3 sem. hrs.

This course exposes the RN student to theoretical concepts underlying nursing leadership and management. Health care and nursing are analyzed within both a service and a business context. Issues related to evolving healthcare systems, organizational structure, nursing demographics, quality improvement, financial management, staffing & scheduling, evidence-based practice, and clinical decision making are applied to the expanding nursing role. Prerequisites: **NURS406, NURS407** (may be taken in the same semester as **NURS407**)

NURS409 PUBLIC HEALTH NURSING 4 sem. hrs.

This course assists the student in synthesizing data and applying knowledge to examine health-promoting behaviors from a community and global perspective. Emphasis is on problem-solving with multiple individuals, families and groups, providing culturally sensitive care in community settings. Students gain an appreciation for the role of change

agent and the need to be actively involved in research to develop healthcare policy. Prerequisites: Current RN licensure and **NURS407**.

NURS415 UNDERSTANDING NURSING RESEARCH 3 sem. hrs.

This course introduces the student to research in nursing practice. It reviews historical evolution of nursing research with application to current knowledge and practice. The research process emphasizes the ability to critically evaluate and utilize research in practice. Ethical considerations in research will be explored. Utilization of informatics skills in identifying and locating current and benchmark literature will be included. Prerequisites: Traditional Prereq: **MATH260, NURS400 or NURS403**; Innovative Prereq: **NURS400 or NURS474. RN-BSN: Prereq: MATH260 and NURS408**.

NURS420 FORENSIC NURSING 3 sem. hrs.

This course provides an introduction to the historical development and emerging roles in the specialty practice of forensic nursing. Participants will explore the more common role of the sexual assault nurse examiner (SANE), as well as the evolving roles of the forensic nurse in evidence collection, expert witness testimony, and investigation of real and potential causes of morbidity and mortality in a variety of settings. This course provides concepts related to the fundamentals of forensic nursing, law, mental health, and science that are necessary for the nurse to function as a liaison between the criminal justice and healthcare systems. Expanding roles of the forensic nurse in bioterrorism, domestic and international investigations of human rights abuse, and as death examiner are explored. Research findings related to the issues and roles of forensic nursing are critiqued. Prerequisites: **PSYC317, PSYC319, NURS202**.

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**.

NURS430 PSYCHO-SOCIAL CONCEPTS FOR NURSING 3 sem. hrs.

This course surveys psycho-social concepts for nursing students in a curriculum specifically designed for second baccalaureate students. It applies principles from psychology, sociology, and growth and development to nursing and examines individual and group behavior in relation to health and illness. Concurrent with **BIOL310, NURS435, and NURS455**

NURS435 PATHOLOGICAL PROCESSES FOR NURSING 4 sem. hrs.

Pathophysiology studies the disruption of homeostasis in the human body. This course provides the foundational knowledge used by the beginning practitioner in the delivery of nursing care. It is designed to facilitate the transfer of knowledge from the basic sciences to diseases encountered in clinical practice. Progressing from general concepts relevant to altered conditions, the course examines specific disease processes encompassing all body systems. Commonly encountered diseases that have a high incidence of occurrence are stressed. The disease, its definition, etiology, incidence/prevalence, pathogenesis, risk factors, clinical manifestations including laboratory values and treatments are examined. The focus of each altered condition is linked to the importance of this information for a beginning practitioner to implement the nursing process. Prerequisites: **BIOL308or BIOL318 NURS201. Innovative: Concurrent with NURS320 and NURS455**.

NURS455 FUNDAMENTALS OF NURSING – INNOVATIVE 8 sem. hrs.

This course provides an introduction to the nursing process. The student will demonstrate a holistic assessment including a health history and physical assessment utilizing Gordon's Functional Health Patterns. The role of data gatherer will be introduced to promote and assist patients in meeting their needs. Evidence based practice is introduced. Prerequisites: Admission to the Innovative Nursing program. Co requisites: **NURS 320 and NURS 435**.

NURS461 MATERNAL/ NEWBORN/ FAMILY-CENTERED NURSING – INNOVATIVE 4 sem. hrs.

This course is designed to provide students with the nursing theory and evidence-based practice principles to recognize and promote health during pregnancy and childbirth. The belief that pregnancy, childbirth, and development changes in a woman's life are natural processes and are essentially wellness-focused pervades the course content. Prerequisites: **BIOL310, NURS435, NURS455**

NURS464 PEDIATRIC/FAMILY – CENTERED NURSING 4 sem hrs.

This intermediate course prepares the student to provide culturally competent care for children (birth - 21 years) with acute and chronic health issues. As the coordinator of care, emphasis is placed upon the family unit. Building on previous learning, students will identify relevant diagnoses, outcomes and interventions consistent with evidence-based practice. Prerequisites: **BIOL310, NURS435, NURS455**

NURS467 ADULT HEALTH NURSING I – INNOVATIVE 7 sem. hrs.

This intermediate level course introduces students to common adult health problems and their collaborative management. Students assume the role of coordinator in providing culturally-sensitive care to adult individuals and their families. They build on previous learning, refine communication skills, and continue to expand their professional role. Prerequisites: **NURS 320, NURS 435, NURS 455**.

NURS468 MENTAL HEALTH NURSING – INNOVATIVE 4 sem. hrs.

This advanced course prepares the student to provide culturally competent care for children, adolescents and adults with acute and chronic mental health problems. Emphasis is placed on identifying and understanding defense mechanism, psychopathology, patient education, treatment modalities and therapeutic nurse-patient relationships. Prerequisites: **NURS 461, NURS 464, NURS 467.**

NURS471 COMMUNITY HEALTH NURSING – INNOVATIVE 4 sem hrs.

This advanced course assists the student to synthesize data and develop leadership skills in health promotion based on Gordon's Functional Health Patterns for individuals, families and groups in the community. The student acts as the designer/manager of care, and change agent in evidenced-based nursing care. Prerequisite: **NURS 461, NURS 464, NURS 467**

NURS474 ADULT HEALTH NURSING II – INNOVATIVE 4 sem hrs.

This is an advanced nursing course in a curriculum specifically designed for second baccalaureate students. The student synthesizes knowledge from Orem's and Erikson's theories to function in a leadership capacity in in-patient health care settings. The student assumes the role of collaborator within the health care team using the wholly compensatory, partly compensatory, and supportive-educative nursing systems. Prerequisites: **NURS461, NURS464, NURS467, and NURS468.**

ORGANIZATIONAL STUDIES DEPARTMENT

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.

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.**

PHILOSOPHY DEPARTMENT

PHIL120 ANALYSIS OF REASONING 1 sem. hr.

This practical course teaches a systematic procedure for analysis and elementary evaluation of reasoning. It emphasizes direct application to realistic cases.

PHIL200 INTRODUCTION TO PHILOSOPHY AND VALUES 3 sem. hrs.

This course examines basic philosophical positions in the areas of ethics, value theory, social and political philosophy, free will and determinism, epistemology, philosophy of religion, and philosophy of mind. This course is approved for General Education – Core 6.

PHIL204 INTRODUCTION TO WOMEN'S STUDIES 3 sem. hrs.

This interdisciplinary course introduces students to the theories and research pertaining to women's experiences and women's status in contemporary society. This course is approved for General Education – Core 5.

PHIL205 CRITICAL THINKING 3 sem. hrs.

Reasoning is a cognitive process by which persons extend their knowledge, explain truths, and persuade others. This course teaches how to recognize, analyze, and evaluate reasoning. It also examines patterns of good reasoning and common errors in reasoning. This course is approved for General Education – Distribution 1.

PHIL240 INTRODUCTION TO CONTEMPORARY MORAL ISSUES 3 sem. hrs.

This course teaches the process and principles of ethical decision-making. It surveys traditional moral theory, and selected case studies involving contemporary moral issues. Students evaluate arguments on the case studies and learn to apply different ethical systems to understand how these systems determine right and wrong in particular cases. This course is approved for General Education – Core 6.

PHIL260 BUSINESS ETHICS 3 sem. hrs.

A study of philosophical theories in relation to ethical issues which arise in business and non-profit administration. Examples of issues might include conflicts of interest and duties; loyalty to organization, to employees and owners or funding sources, private ownership, personal morality and the public interest. Case studies will be used to illustrate the application of ethical theories such as those of Kant or Mill.

PHIL265 DEATH AND DYING 3 sem. hrs.

The course introduces some basic themes such as the stages of grief, suicide, euthanasia, existence of life after death, and strategies for handling the anxiety associated with death. It includes both traditional and contemporary texts related to the philosophical study of death.

PHIL300 ANCIENT PHILOSOPHY 3 sem. hrs.

This course introduces the student to the philosophical thought of Ancient Greece. Beginning with the pre-Socratics (Thales, etc.), the main themes of Greek physics, metaphysics, epistemology, ethics, and politics are reviewed in their historical development. The course ends with the philosophy of Aristotle. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

PHIL301 MEDIEVAL PHILOSOPHY 3 sem. hrs.

This course deals with the development of philosophical thought from early Christian times to the rise of Modern Philosophy with Descartes. Emphasis is placed on Christian thinkers and especially the Golden Age of Scholasticism. Prerequisites: **PHIL200** or **PHIL240**, or Permission of the Instructor.

PHIL306 PHILOSOPHY IN POPULAR CULTURE 3 sem. hrs.

This course uses popular literature and film to explore our understanding of who we are, where we come from, the nature of society and the world, and the right way to live. From this basis, issues about ethics, social-political values, metaphysics, and epistemology will be examined. The popular literature or films covered will vary, but the common core

will be the structure of myth as analyzed by Plato, Campbell, and Keen. Prerequisites: **PHIL200** or Permission of the Instructor.

PHIL310 EASTERN PHILOSOPHY 3 sem. hrs.

This course introduces Eastern thought through a study of its major structures in their historical setting, aimed at an understanding of its characteristic vision. It examines traditional perspectives such as Confucianism, Taoism, Buddhism, Hinduism, Shinto and Zen. This course is approved for General Education – Distribution 1.

PHIL311 WORLD RELIGIONS 3 sem. hrs.

This course introduces the student to the great and living religions of the world: Buddhism, Hinduism, Confucianism, Taoism, Judaism, Christianity, and Islam. Those perennial insights are stressed that make these religions relevant and meaningful to contemporary persons. This course is approved for General Education – Distribution 1.

PHIL312 BLACK/WHITE: APPEARANCE AND REALITY 3 sem. hrs.

Emphasis in this course is on discovering the meaning of racial injustice for the victims, for those who participate in it, and for society as a whole and on the relation of racism to other forms of oppression. The search for solutions may be traced in the writings of several Third World thinkers as well as American authors. This course is approved for General Education – Distribution 1.

PHIL313 AFRICAN PHILOSOPHY 3 sem. hrs.

This course is a survey of African philosophy focusing on key metaphysical, moral, and social ideas. It begins by studying the question of whether or not there is a unique African philosophy, determines that there is, and then traces the development of that philosophy. Topics include the nature of God, the natural world, the human person, morality, time, and the good life. The course pays special attention to the differences and similarities between African and Western philosophical ideas.

PHIL318 MARXISM 3 sem. hrs.

Careful examination is made of the Marxist philosophy of nature, man, history, the state and revolution. Emphasis is on reading the basic writings of Marx and Engels. Some attention is given to the origins and genesis of Marxism, to its practice, and to contemporary Marxist theorists. This course is approved for General Education – Distribution 1.

PHIL319 EXISTENTIALISM 3 sem. hrs.

This course examines the main themes of contemporary existentialistic thought. Atheistic, agnostic, and theistic existentialists are treated. The course begins with Kierkegaard and Nietzsche and studies, among others, Heidegger, Jaspers, Sartre, Marcel, Camus, and Merleau-Ponty. The phenomenological method is also examined and evaluated.

PHIL323 INVESTIGATION OF CLAIMS OF THE PARANORMAL 3 sem. hrs.

This course is an introduction to the philosophy of science. The course uses the extremely interesting, yet scientifically improbable, claims made in best seller books, such as *Chariots of the Gods* and *Bermuda Triangle*, as well as ESP and related

phenomena as examples to focus attention on important topics in the Philosophy of Science. Such topics as science vs. pseudo-science, skepticism vs. dogmatism, fallacies of experimental procedure and how to critically evaluate paranormal claims will be taken up. The student will have an opportunity to critically appraise such claims in a research project.

PHIL326 TECHNOLOGY AND HUMAN VALUES 3 sem. hrs.

This course familiarizes students with the philosophical and value implications of the technological texture of modern life. This course evaluates various philosophical positions with regard to technology and develops such concepts as the technological system, post industrial technologies, technoscientific thinking and autonomous technology.

PHIL327 BEGINNING LOGIC 3 sem. hrs.

This non-symbolic logic course emphasizes Aristotelian ('syllogistic') reasoning. It includes the translation of ordinary language sentences into Aristotelian form, the determination of validity through Venn diagrams, and traditional topics such as uses of language, varieties of definition, and varieties of fallacies. This course is approved for General Education – Distribution 1.

PHIL330 NIETZSCHE 3 sem. hrs.

This course examines Nietzsche's philosophy, including his concepts of the last man, overman, eternal recurrence, and will to power. Prerequisite: **PHIL200** or instructor's permission.

PHIL340 ETHICS 3 sem. hrs.

This course, intended as a second course in values, examines the main theoretical issues of ethics and relates them to practical moral problems. It discusses the nature of values and the justification of normative principles through consideration of classical and contemporary moral philosophers. Prerequisite: a 200 level or above philosophy course or permission of the instructor. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

PHIL342 IMAGES OF HUMANITY 3 sem. hrs.

Human beings understand themselves with the aid of models or paradigms of true humanness. The images which dominated the different periods of history are examined in the philosophical texts in which the images were created. Exposure to different understandings of the human condition provides a technique for making unconscious imagery conscious as well as a basis for critical examination of contemporary imagery. This course is approved for General Education – Distribution 1.

PHIL344 SOCIAL PHILOSOPHY 3 sem. hrs.

This course investigates social philosophy, past and present, in relation to values and ideology. Specific issues include the moral justification for the existence of the state, its authority, the relation of the individual to the state, the scope and limits of political dissent, the principles of just revolution, individual property rights, income distribution and taxes. This course is approved for General Education – Distribution 1.

PHIL345 PHILOSOPHY OF ART 3 sem. hrs.

This course examines central and historical developments in the philosophical analysis of art. It examines theories of art and explores questions such as: the beautiful, creativity, the imagination, and the role of art in life.

PHIL346 ENVIRONMENTAL ETHICS 3 sem. hrs.

This course surveys the development of Ecophilosophy, a branch of philosophy which responds to the emerging understanding of the science of ecology and its implications for humanity. Topics discussed include the philosophical aspects of the Limits-to-Growth debate, the Land Ethic, Animal Rights, Gaia Hypothesis, Ecocentrism vs. Anthropocentrism, Ecofeminism, and Deep Ecology. This course is approved for General Education – Distribution 1.

PHIL350 PHILOSOPHY OF RELIGION 3 sem. hrs.

This course philosophically analyzes argument for and against atheism, agnosticism, theism, and the immortality of the soul. The stance of faith contrast with that of rational argumentation. The classical proofs for God's existence and the immortality of the soul are studied and evaluated.

PHIL361 ETHICS AND HEALTH 3 sem. hrs.

This course is designed not just for persons who plan to work in health-related fields, but for any student interested in understanding in basic concepts and categories of ethics. After the general theories and principles of ethics are understood, applications are made to the health-related issues which are widely discussed in the mass media and given academic attention by scholars in philosophy, religious studies, law, and biology. Prerequisite: **PHIL200**.

PHIL364 SEXUAL LOVE AND WESTERN MORALITY 3 sem. hrs.

The course explores several theories about the nature and meaning of human sexuality which are then applied to the evaluation of sexual acts in both moral and non-moral terms. Several notions of love are examined in relation to the various lifestyles which could claim to be their practice. This course is approved for General Education – Distribution 1.

PHIL402 MODERN PHILOSOPHY 3 sem. hrs.

The major philosophers from Descartes (1600) through Kant (1800) are examined. Metaphysical and epistemological issues are emphasized. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

PHIL405 CONTEMPORARY PHILOSOPHY 3 sem. hrs.

This course examines some of the most important works of some of the most influential philosophers since 1900. This course is approved for General Education – Distribution 1.

PHIL410 METAPHYSICS 3 sem. hrs.

Metaphysics asks the question: "What exists?" This fundamental area of philosophy includes many of the most basic philosophical issues: the nature of the external world, the mind-body problem, the existence of free will, the existence of God, and the problem of universals. This course will cover one or

more of these issues. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

PHIL411 THEORY OF KNOWLEDGE 3 sem. hrs.

This course studies the sources, types, methods, structure, and validity of knowledge. It involves reading and discussion of classical, modern, and contemporary views of meaning, truth, and perception. This course is designed to give an acquaintance with and an appreciation of the scope and limits of knowledge. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

PHIL415 CURRENT PROBLEMS IN PHILOSOPHY 3 sem. hrs.

This course will employ modern philosophical techniques such as linguistic analysis to investigate current philosophical problems. These problems may include, for example, current problems of knowledge, free will, God and the mind-body relation to answer such questions as: Can we have knowledge or are there grounds to doubt everything? Do we have free will or are all our actions determined? Are the mind and brain one and the same or different? Is there or is there not a God?

PHIL419 PHENOMENOLOGY 3 sem. hrs.

Phenomenology is more than a mere descriptive method. It aims to perform a philosophical activity by seeking out the ultimate foundations of the totality of human experience. Existence is foundational and integrational and founds, as such, the edifice of knowledge and undercuts the subject-object cleavage of rationalism. The purpose of the course is to assess this contention of phenomenology.

PHIL420 LOGIC 3 sem. hrs.

This course in logic demonstrates how to distinguish between valid and invalid reasoning by use of symbols. It covers sentence logic and quantificational (predicate) logic. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL327** or **MATH104** or **MATH110** or Permission of the Instructor.

PHIL425 PHILOSOPHY OF SCIENCE 3 sem. hrs.

This course examines the philosophical problems common to the natural sciences, such as the nature of laws and theories, explanation, and verification, and the distinction between science and pseudo-science. It also discusses the character of scientific progress. The course helps students understand the general structure and methods of science, through an examination of the philosophical controversies which surround them. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

PHIL440 PHILOSOPHY OF HUMAN ACTION 3 sem. hrs.

The course has two parts, the first devoted to looking at theories about the right way to describe and explain what people do, the second part to re-examine the nature of human labor, making use of the theoretical tools acquired in the first part of the course.

PHIL490 INDEPENDENT STUDY 1-6 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to solve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

PHIL545 MEDICAL ETHICS 3 sem. hrs.

After a survey of basic concepts and reigning theories in ethics, students are introduced to the major areas of ethical conflict in contemporary medical practice. Case materials are presented in class and students receive guidance in identifying the controversies and in providing rational support for their solutions. Prerequisite: **PHIL200** or the permission of the instructor.

Graduate courses at the 600 level may be taken by undergraduates for undergraduate credit with permission of the dean of the student's major.

PHYSICS AND TECHNOLOGY DEPARTMENT

Engineering Courses

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.

Astronomy Courses

PHYS271 FRONTIERS IN ASTRONOMY 3 sem. hrs.

This course is designed for non-science majors. Each part of the course is concerned with a different part of the new revolution in astronomy showing how much there is that is fresh and young in the oldest science. Major topics are: stellar evolution-life histories of stars, galaxies and the universe-cosmology, and the solar system-emphasizing knowledge gained via the space program. This course is approved for General Education – Core 7.

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.

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 2-5 sem. hrs.

Physics Courses

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. Co-requisite: **MATH107** or permission of instructor.

PHYS150 PHYSICS ORIENTATION 3 sem. hrs.

This course introduces the students of physics, engineering, and related areas to the processes involved in problem solving. Students do computational work using calculators and computers.

PHYS181 PRINCIPLES OF PHYSICS 3 sem. hrs.

This course is a one-semester course that introduces the basic principles of physics with special emphasis on applications to biological systems, especially appropriate for students in health related fields.

PHYS201 PHYSICS I 4 sem. hrs.

This is an introductory course for non-physics majors. The basic principles of physics are emphasized and selected applications are discussed. Topics covered include mechanics, theory of gases, thermodynamics and sound. The student should have a knowledge of elementary algebra and basic trigonometry. A lab is included. 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.

This course is designed for non-science majors. Each part of the course is concerned with a different part of the new revolution in astronomy showing how much there is that is fresh and young in the oldest science. Major topics are: stellar evolution-life histories of stars, galaxies and the universe-cosmology, and the solar system-emphasizing knowledge gained via the space program. This course 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 and music. Topics include vibration, the perception of sound in a room, and sources of sound. This course is approved for General Education – Distribution 3.

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. Laboratory included. This course is approved for General Education – Distribution 3.

PHYS303 THE NATURE OF NUCLEAR ENERGY 3 sem. hrs.

This course introduces the basic principles underlying the structure and behavior of atoms and nuclei and of how these principles lead to the development of modern nuclear technology and its impact on society. Topics discussed will include: properties and detection of radiation; uses of radiation; uses of radiation in industry and medicine, radioactive dating, power sources, hazards, etc.; nuclear power (fission, fusion, and breeders) and its environmental

impact. There are no prerequisites. (Laboratory included.) Not for BS or BA physics majors. This course is approved for General Education – Distribution 3.

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 work. Prerequisite: **PHYS323** or **PHYS202** or permission of instructor.

PHYS311 TECHNICAL ELECTRONICS I 4 sem. hrs.

This course develops the fundamental concepts of dc and ac circuits, including magnetic effects. Solid state devices and their uses are introduced. Practical circuits and the use of measuring devices are stressed in the exercises. 3 hours lecture, 2 hours lab.

PHYS312 TECHNICAL ELECTRONICS II 4 sem. hrs.

A continuation of **PHYS311**, this course introduces the use of active components (diodes, transistors, etc.) and integrated circuits (op amps, etc.) in the design and construction of basic electronic circuits. The course includes a two hour laboratory. Prerequisite: **PHYS323** or **PHYS202** or permission of instructor.

PHYS313 DIGITAL ELECTRONICS 3 sem. hrs.

This course develops the principles of digital logic and arithmetic, and the electronic implementation of these principles. Combinational and sequential logic techniques such as Boolean algebra and Karnaugh mapping are introduced. Discrete digital gates as well as MSI circuits are used in circuit design. This course includes a laboratory. This course is approved for General Education – Distribution 3.

PHYS314 ELECTRONIC TROUBLESHOOTING 3 sem. hrs.

This course outlines the basic techniques used to troubleshoot electronic circuits. Concepts such as equipment specifications, reliability, and component characteristics are introduced. Use of test equipment is developed, and standard methods of troubleshooting are explored. Attention is given to techniques applicable to linear, digital, and power circuits. The basic principles of system maintenance and troubleshooting are also introduced. Prerequisite: a previous course in electronics. 2 hours lecture, 2 hours lab.

PHYS315 INTRODUCTION TO MICROPROCESSORS 3 sem. hrs.

This course introduces the student to the microprocessor, microprocessor systems, programming, and interfacing. Since no prior knowledge of digital electronics is assumed, a brief introduction is given to binary arithmetic, experiments on programming and interfacing. Prerequisite: a knowledge of basic electricity and electronics. 2 hours lecture, 2 hours lab. This course is approved for General Education – Distribution 3.

PHYS316 CIRCUITS ANALYSIS 3 sem. hrs.

This course stresses theorems and techniques necessary to analyze circuit responses, steady state and transient behavior, power and power factor corrections, resonance phenomena, networks, and polyphase circuits. Prerequisite: **MATH211** or its equivalent.

PHYS320 UNIVERSITY PHYSICS I 4 sem. hrs.

The courses, **PHYS320** and **PHYS321**, form a two semester sequence in calculus based physics. **PHYS320** is an analytical study of classical mechanics, waves, and thermodynamics. **PHYS320** does not replace **PHYS251**. 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 continues **PHYS320** and examines the fundamentals of electricity and magnetism and their theoretical interpretation. It includes Maxwell's equations, electromagnetic waves and physical optics. Prerequisite: **PHYS320** or permission and concurrent enrollment in **MATH212**. This course is approved for General Education – Distribution 3.

PHYS322 PHYSICAL MEASUREMENTS LABORATORY I 1 sem. hr.

This laboratory course, designed for physics, engineering and science majors, studies methods and techniques of experimental research through selected physics experiments. Students interface computers for data collection, computation, and the various form of analysis, and use microcomputers and software and the university's mainframe computer to analyze, graphically display, and discuss experimental results. Prerequisite: concurrent enrollment in **PHYS320**, or by permission of the instructor.

PHYS323 PHYSICAL MEASUREMENTS II 1 sem. hr.

This course continues Physical Measurements Laboratory I, **PHYS322**. Prerequisites: **PHYS322** and concurrent enrollment in **PHYS321**, or permission.

PHYS325 INTRODUCTION TO MODERN PHYSICS 3 sem. hrs.

This course surveys at the intermediate level the origin, development and present status of the important concepts of modern physics. It presents the theoretical development of the concepts with their classical historical features to provide a perspective on the growth and present trends in physics. Prerequisite: **PHYS321**, or by permission of the instructor. This course is approved for General Education – Distribution 3.

PHYS371 THE SOLAR SYSTEM 3 sem. hrs.

This course is designed for all curricula. An in-depth study of the solar system and its component parts; the sun, the moon, the planets, the interplanetary medium and aspects of space science, will be the main contents of the course. Prerequisite: **PHYS271** or consent of instructor. Co-requisite: **MATH311**. This course is approved for General Education – Distribution 3.

**PHYS404 PHYSICS
LABORATORY FOR
TEACHERS 2 sem. hrs.**

A study of laboratory procedures and techniques used in secondary schools. Equipment, safety procedures, demonstrations, and tactics of innovation are discussed and investigated to enable the student to develop competencies in the efficient utilization of the laboratory. Prerequisite: 12 sem. hrs. of physics, or by permission of the instructor.

**PHYS405 MODERN PHYSICS
LABORATORY I 2 sem. hrs.**

A laboratory course consisting of intermediate and advanced laboratory experiments in modern physics. The experiments will include the analyses of experimental data and their relationship to the appropriate fundamental theory and will cover all areas of modern physics, such as atomic, nuclear and solid state physics. Prerequisite or co-requisite: **PHYS325**. 4 hours lab per week.

PHYS410 OPTICS 3 sem. hrs.

An intermediate study of geometrical and physical optics. Topics in geometrical optics will include the nature of light, reflection, refraction, dispersion, thick lenses, aberrations and the design of optical systems. Topics in physical optics will include wave theory of light, diffraction, interference, and polarization. Prerequisite: **PHYS321**, or by permission of the instructor.

PHYS420 MECHANICS I 3 sem. hrs.

A study of classical mechanics on an intermediate level. Topics covered: Lagrange's equations, the central force problem, the dynamics of a system of particles, the motion of rigid bodies and Hamilton's equations and the dynamics of oscillating systems. Prerequisites: **PHYS325** and **MATH311** or permission of the instructor. Corequisite: **MATH317**.

PHYS421 MECHANICS II 3 sem. hrs.

A continuation of **PHYS420**.

**PHYS430 ELECTRICITY AND
MAGNETISM I 3 sem. hrs.**

This course studies the mathematical theories of electricity and magnetism at an intermediate level. It develops Maxwell's equations and uses them extensively. Prerequisite: **PHYS325** and concurrent enrollment in **MATH317**, Differential Equations, or by permission of the instructor.

**PHYS431 ELECTRICITY AND
MAGNETISM II 3 sem. hrs.**

A continuation of **PHYS430**.

**PHYS441 THERMAL
PHYSICS 3 sem. hrs.**

A study at the intermediate level of physical phenomena that depend on temperature. Topics will include the three laws of thermodynamics, thermodynamic potentials, equations of state and various applications to simple and multi-component systems. Prerequisites: the introductory physics sequence **PHYS325** and **PHYS321**, **MATH311** or by permission of instructor.

**PHYS449 MATHEMATICAL
METHODS IN
PHYSICS 3 sem. hrs.**

This course studies the application of various mathematical techniques to advanced problems in physics. Topics may include, but are not limited to, functions of a complex variable, the calculus of

residues, integral transforms and the special functions of mathematical physics. Prerequisites: **PHYS325** and **MATH317** or permission of instructor

**PHYS453 QUANTUM
PHYSICS 3 sem. hrs.**

An introduction to the basic postulates of non-relativistic quantum mechanics. The Schrodinger equation and its physical interpretation will be investigated. The representation of physical quantities by mathematical operators will be introduced and applied to a limited number of exactly solvable problems. Approximation methods will be developed for dealing with time independent problems. Prerequisites: **PHYS325** and **MATH317**.

**PHYS471 RELATIVITY,
BLACK HOLES,
AND COSMOLOGY 3 sem. hrs.**

This course is designed for all curricula. The topics covered are divided into five parts: Special Relativity, Black Holes, Galaxies and Quasars, and Cosmology. The course will emphasize some of the central apparent paradoxes of relativity and how their descriptive understanding applies to phenomena and topics such as black holes and cosmology. Prerequisite: **PHYS271** or permission of the instructor. This course is approved for General Education – Distribution 3.

PHYS472 THE SUN 3 sem. hrs.

This course is designed for all curricula. It is an in-depth study with observational and computational laboratory of the sun and the solar atmosphere. The photosphere, chromosphere, Corona and solar spectrum will be the main topics covered. Solar-Terrestrial relationships will be dealt with in each of the topics indicated above. Prerequisite: **PHYS271** or equivalent, and **PHYS201** or equivalent. This course is approved for General Education – Distribution 3.

**PHYS490- INDEPENDENT
493 STUDY IN 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
497 PHYSICS 2-5 sem. hrs.****PHYS550 THE BIRTH OF
MODERN SCIENCE 3 sem. hrs.**

This course, to be taught in Oxford, England, uses an historical perspective to examine the development of those concepts now considered central to science. It stresses the interrelated nature of the sciences and considers topics from physics, astronomy, chemistry, biology and geology.

Manufacturing Engineering Technology Courses

**MFGT100 MANUFACTURING
PROCESSES 4 sem. hrs.**

This course develops a working knowledge of the capabilities and limitations of basic machining operations. Students will learn the theory of metal-

working. Skills are developed and safe practices learned through laboratory work. Laboratory projects are of increasing difficulty as the students' skills develop. The course consists of 2 hours of lecture and 3 hours of laboratory.

**MFGT105 ENGINEERING
MATERIALS 3 sem. hrs.**

This course develops a working knowledge of the materials used in industry, their properties, and the factors involved in selection for specific applications. It emphasizes those materials most often encountered in designing and using industrial tooling and equipment.

**MFGT110 TECHNICAL
DRAWING I 3 sem. hrs.**

This course develops the fundamental skills necessary to create and interpret Basic Engineering Drawings. It includes Geometric Construction, Lettering, Multiview Projection, Sectioning, Auxiliary Views, Dimensioning, Tolerancing, Fasteners, and Working Drawings. 3 hours lecture, 3 hours lab.

**MFGT111 TECHNICAL
DRAWING II 3 sem. hrs.**

This course continues Technical Drawing I, emphasizing the following topics: Axonometric and Oblique Projection, Perspective, Intersections and Developments, Gears and Cams, Structural and Piping Drawing, Welding, Graphs, and some Basic Descriptive Geometry. 3 hours lecture, 3 hours lab.

**MFGT201 INTRODUCTION
TO QUALITY
CONTROL 3 sem. hrs.**

Basic statistical quality control principles are presented, with tools available for planning, evaluation, reporting, and control of quality in manufacturing, with emphasis on quality and performance improvement in order to reduce costs of manufacturing. The course presents basic statistical and probability concepts, distributions, terminology, sampling plans, statistical process, control charts, and their use. To enroll, students must have skill in algebra or permission of the instructor.

MFGT215 MACHINE DESIGN 3 sem. hrs.

This course develops a basic knowledge of the principles involved in the layout and design of industrial machinery with particular emphasis on the selection, sizing, and design of machine components. The course consists of lectures and class exercises in component selection and sizing. To enroll students must have skill in algebra or permission of the instructor.

**MFGT225 STATICS AND
STRENGTHS OF
MATERIALS 3 sem. hrs.**

This course introduces statics and strengths of materials concepts and develops computational skills. To enroll, students must have skill in algebra and trigonometry or permission of the instructor.

**MFGT260 JIGS AND FIXTURE
DESIGN 3 sem. hrs.**

This course builds a basic knowledge of gauging and workholding devices used in metalworking manufacturing. Projects include designing several complete tools in order to develop beginning competency.

MFGT296 INTERNSHIP IN MANUFACTURING ENGINEERING TECHNOLOGY 3-12 sem. hrs.

This internship gives students experience in the manufacturing environment. The nature of the experience and the time spent determine the amount of credit earned.

MFGT302 COMPUTER AIDED DRAFTING I 3 sem. hrs.

This course introduces the student to the various CAD Systems used in industry and develops operational skills on micro computer based CAD software. It covers methods of geometric construction, dimensioning, layering, storage, plotting, revision and related topics. Prerequisite: **ENGR201**. 3 hours lecture, 3 hours lab.

MFGT306 STRENGTH OF MATERIALS LABORATORY 3 sem. hrs.

This course will introduce the student to the principles of strength, stiffness, and stability of materials as they relate to the design of components used in daily life. Course topics include design properties, axial deformation, thermal stresses, torsional shear stresses, torsional deformation, and shearing forces in materials. (1 hour lecture, 3 hours lab) Prerequisite: **MFGT105**.

MFGT309 MOLD DESIGN I 3 sem. hrs.

This course develops a basic understanding of molds for compression and transfer molding of thermosetting plastics and for injection molding of thermoplastics. Projects include the design of several complete molds in order to build a beginning level competency. Prerequisite: **ENGR201** or permission of instructor.

MFGT310 ADVANCED MOLD DESIGN 3 sem. hrs.

This course continues **MFGT309** Mold Design I, building on the concepts learned therein and developing more marketable skills. It emphasizes materials selection, tolerancing for proper fits, and designing of more complex mold details such as stripper plates, core slides, and actuating devices. Projects include designing several injection molds of increasing complexity. Prerequisite: **MFGT309**.

MFGT311 RAPID PROTOTYPING 3 sem. hrs.

This course will introduce the student to rapid prototyping manufacturing techniques. Course topics include parametric part modeling, reverse engineering concepts, prototyping design restrictions, stereolithography rapid prototyping, and 3D printing processes. (1 hour lecture, 3 hours lab) Prerequisites: **MFGT105**, **ENGR201**, **MFGT302**.

MFGT315 OPERATIONAL PLANNING IN MANUFACTURING 3 sem. hrs.

This course introduces the student to manufacturing operation styles and the environments and constraints which affect operations. Course topics include system development cycles, shop planning fundamentals, job cost estimating and budgeting, risk management, evaluation, reporting, and termination in manufacturing projects. Prerequisite: **CSCI104** or higher.

MFGT320 COST ESTIMATING 3 sem. hrs.

This course develops an understanding of the factors which contribute to manufacturing cost in modern industry and builds practical ability to estimate material requirements and time required for manufacturing operations, in order to determine product pricing. Requires high school algebra or permission of the instructor.

MFGT365 DIE DESIGN 3 sem. hrs.

This course introduces punch press dies for manufacturing of parts from sheet metal in the form of strip or coil. The students learn how dies function, the types of parts which may be manufactured using dies, how to calculate press tonnage and stripping forces, and how to choose and size components. Design projects reinforce the learnings. Prerequisite: **MFGT110**.

MFGT370 MOTION AND TIME STUDY 3 sem. hrs.

This course gives an overview of the methods and tools used in Motion Study, which involves the design and improvement of manufacturing methods, and those used in Time Study, which concerns measuring of human effort in terms of manufacturing time. Extensive classroom exercises reinforce concepts and develop skills.

MFGT375 COMPUTER AIDED MANUFACTURING (CAM) 3 sem. hrs.

This course introduces the fundamental concepts of programming and operating digitally controlled machine tools. It includes 2 hours lecture and 3 hours lab per week. Prerequisite: **MFGT100** or permission of the instructor.

MFGT410 FLUID POWER 3 sem. hrs.

This course develops a knowledge of hydraulics and pneumatics as used for power and control of industrial equipment. The student, after completion of the course, will be able to design control circuits, troubleshoot, and to size and select components for a wide range of applications.

MFGT420 MATERIAL HANDLING AND FACILITY PLANNING 3 sem. hrs.

This course will introduce the student to integrated material handling systems and systematic approach to facilities planning. Course topics include automatic identification, common material handling equipment used in manufacturing, and simulation of material flows. Prerequisites: **MFGT102**, **MFGT105**, **CSCI104** or higher.

MFGT435 HEAT TRANSFER/APPLIED THERMODYNAMICS 3 sem. hrs.

The course consists of a comprehensive treatment of classical heat transfer and thermodynamics for engineering technologists. Topics include the applications of equations of state, the first and second laws of thermodynamics, engine and refrigeration cycles, and the modes of heat transfer. Prerequisites: **MATH211**, **PHYS201** and **CHEM120**.

MFGT490 INDEPENDENT STUDY: MANUFACTURING ENGINEERING TECHNOLOGY 1-6 sem. hrs.

Students solve problems and earn credit for work performed independently outside the classroom requirement of any specific course in the curriculum. Prerequisite: permission of the instructor.

POLITICAL SCIENCE AND CRIMINAL JUSTICE DEPARTMENT

Criminal Justice Courses

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.

CRIM310 INTRODUCTION TO CORRECTIONS 3 sem. hrs.

This course presents an overview of the history of penology and a review of contemporary correctional ideologies. Topics include the systems of probation, parole, and prisons, and their interface with the Criminal Justice System. It reviews issues and perspective of social and political developments and introduces methods of evaluative research, prevailing practices, policies, and procedures. Prerequisite: **CRIM200** or permission of instructor.

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.

CRIM330 INTRODUCTION TO POLICING 3 sem. hrs.

This course introduces significant issues in policing. Topics include the development of policing and law enforcement, police work, personnel systems, organization and management, police operations, police discretion, police subculture, ethics and deviance, civil liability, and other current topics of interest to policing and law enforcement. Prerequisite: **CRIM200** or permission of instructor.

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: **CRIM200** or permission of the instructor.

CRIM370 PROBATION, PAROLE AND COMMUNITY CORRECTIONS 3 sem. hrs.

This course examines an array of community-based correctional programs, including the development of intermediate sanctions and theoretical as well as practical aspects of probation and parole work. It considers programs designed to meet the problems of special needs offenders and provides experience in completing a presentence investigation. Prerequisite: **CRIM200** 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 after-care, and contemporary issues concerning control of juvenile offenders and reduction of recidivism. Prerequisite: **CRIM200**.

CRIM395 INTERNSHIP IN CRIMINAL JUSTICE 1-15 sem. hrs.

This course allows students to receive academic credit for an approved internship experience in the criminal justice system. Prerequisites: Student must have earned 64 credits, with at least 16 of those credits taken at Edinboro University, including a minimum of nine credits in criminal justice courses (course that count toward the B.A. in Criminal Justice degree). The applicant must have a minimum overall grade point average of 2.0 and a minimum grade point average of 2.5 in the major. Students not meeting the requisite grade requirements may request special approval by a committee comprised of members of the Political Science and Criminal Justice Department. Subject to departmental approval, the application shall be forwarded to the Dean of the School of Liberal Arts for further consideration and approval.

CRIM425 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. Prerequisite: **CRIM200**.

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: **CRIM200** 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: **CRIM200** 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: **CRIM200** 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: **CRIM200** 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 **CRIM200**. 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: **CRIM200** or permission of the instructor.

CRIM465 ADVANCED CRIMINALISTICS 3 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**.

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: **CRIM200** or **POLI343** or permission of the instructor.

CRIM470 ADVANCED ISSUES IN CORRECTIONS 3 sem. hrs.

This course presents a critical and in-depth analysis of current correctional issues and dilemmas that face our country today. The focus of the course will be in areas of problem analysis, problem solving, and decision making. A number of issues will be examined during the course including, but not limited to, the following: overcrowding, sentencing policy, sentence disparity, prison adjustment, recidivism, community-based corrections and intermediate punishments, the use of surveillance and technology, the mentally ill offender, the elderly offender, the privatization movement, prison siting, and the effectiveness and utility of treatment and rehabilitation. Prerequisites: **CRIM200** and **CRIM270**.

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 used in the fields of criminal justice and criminology. In addition, 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, and data sources, specifically germane to criminal justice/criminological research. Prerequisite: **CRIM200** and junior or senior-level status.

CRIM480 CORRECTIONAL ADMINISTRATION 3 sem. hrs.

This course examines the dynamics of corrections organizations and evaluates the images and attitudes of corrections from administrative and managerial perspectives. Through the use of case studies and practical examples, students will learn about the

past, present, and future of corrections, the functions of correctional administrators, and the issues that drive administrators to create new operational approaches to new challenges. Prerequisites: **CRIM200**, **CRIM310**, and Junior or Senior-Level Status.

**CRIM485 FINANCIAL
CRIMES
ENFORCEMENT 3 sem hrs.**

This course will predominantly focus on providing our students with a basic grounding in the laws and theories related to money laundering. This course will also teach how to utilize information provided within Suspicious Activity Reports (SARs), published under the auspices of the Bank Secrecy Act Advisory Group, and Currency Transaction Reports (CTR) generated by the Financial Crimes Enforcement Network, to identify, and track the intricacies of new money laundering techniques, and the means employed by the government to disrupt such activity. **Prerequisites for Undergraduates: Introduction to Criminal Justice (CRIM 200) and Criminal Investigation (CRIM 340); Prerequisites for Graduates: Business Law (BUAD 360)**

**CRIM490 INDEPENDENT
STUDY 1-6 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**CRIM500 SEMINAR IN
CRIMINAL
JUSTICE3 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 include: **CRIM200**, **CRIM310**, **CRIM330**, and **CRIM365**.

Political Science Courses

The following political science courses are designated according to the fields of study they represent. American Government and Politics (AGP): Public Administration (PA): International Relations and Comparative Government (IR-CG) and Political Theory (PT).

**POLI200 INTRODUCTION
TO GOVERNMENT 3 sem. hrs.**

This course studies the scope and method of political science. It covers political processes and institutions in democratic as well as non-democratic nations, and examines the relationship of theory to practice. This course is approved for General Education – Core 2.

**POLI201 AMERICAN
GOVERNMENT 3 sem. hrs.**

This course describes and explains the development, structures and dynamics of the American system. Topics include American political culture, ideologies, and public opinion; the Constitution, civil

rights, and civil liberties; the electoral system and voting behavior; political parties and interest groups; Congress, the presidency, the federal bureaucracy, and the federal judiciary; and public policymaking.. This course is approved for General Education – Core 3.

**POLI204 INTRODUCTION
TO WOMEN'S
STUDIES 3 sem. hrs.**

This interdisciplinary course introduces students to the theories and research pertaining to women's experiences and women's status in contemporary society.

**POLI240 INTRODUCTION
TO COMPARATIVE
GOVERNMENT 3 sem. hrs.**

This course surveys major political systems and provides analysis of the comparative governmental institutions in the international community today. This course is approved for General Education – Core 2 (IR-CG).

**POLI302 URBAN
COMMUNITY
LEADERSHIP 3 sem. hrs.**

This examines the concepts of community leadership in relation to the problems facing the urban community and how these problems affect the surrounding community area. It looks at the political decision-making process in relation to governing the urban area and the impact of this process on the surrounding community area. It looks at various groups that have an impact on the decision process and examines the response of leaders to these groups, their problems, and proposed solutions. Prerequisite: **POLI200** or **POLI201** or permission of the instructor (AGP).

**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 (AGP).

**POLI306- PUBLIC
307 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: **POLI200** or **POLI201** or permission of the instructor (PA).

**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 **POLI201** or permission of the instructor (AGP).

**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 (PT).

**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 (AGP).

**POLI320 AMERICAN
POLITICAL
PARTIES AND
POLITICAL
BEHAVIOR 3 sem. hrs.**

The nature, functions, and structure of political parties in the American federal system; special attention to the growth of the two-party system; problems of organized group pressure and its effect on the political system; problems of leadership, internal organization and membership loyalties. Prerequisite: **POLI200** or **POLI201** or permission of the instructor (AGP).

**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: **POLI201**. This course is approved for General Education – Distribution 2 (AGP).

**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: **POLI200** or **POLI201** or permission of the instructor (AGP).

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. (IR-CG)

POLI330 INDEPENDENT REGULATORY AGENCIES; THE BUREAUCRACY IN OPERATION 3 sem. hrs.

The development of government agencies as constituting an important arm of the government; organization, nature and procedures of the various departments, boards and commissions and the role they play in the political process, pressure group activity and its effect on agency operations. Prerequisite: **POLI200** or **POLI201** or permission of the instructor (AGP).

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: **POLI201**. This course is approved for General Education – Distribution 2 (AGP).

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: **POLI200** or **POLI240** (IR-CG).

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: **POLI200** or **POLI240**. This course is approved for General Education – Distribution 2 (IR-CG).

POLI342 GOVERNMENT AND POLITICS OF RUSSIA AND FORMER SOVIET REPUBLICS 3 sem. hrs.

This course examines the political heritage of Russia and other former Soviet republics, covering the social, political and economic changes brought about by the 1917 Russian revolution and the 1991 Soviet revolution, and the transition from the communist to the present period. It examines and contrasts the policies under Mikhail Gorbachev and Boris Yeltsin with an emphasis on the social changes and dislocations brought about by the post-communist period (IR-CG).

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: **POLI201** 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 (IR-CG).

POLI346 GOVERNMENT AND POLITICS OF CANADA 3 sem. hrs.

Structure, function and powers of the Provincial and Federal governments of Canada; comparative aspects of public policy decision making; historical background of Canadian political institutions. Prerequisite: **POLI200** or **POLI240** (IR-CG).

POLI347 INTERNATIONAL POLITICS: CURRENT ISSUES 3 sem. hrs.

The political issues which are at the center of today's international arena will be examined. New political problems have followed those which characterized the Cold War and detente periods, stemming mostly from the built-in conflict present in North-South and East-West relations. In addition to their more visible aspects, the underlining national, regional, and global causes of these issues will be examined (IR-CG).

POLI348 INTRODUCTION TO INTERNATIONAL POLITICS 3 sem. hrs.

Explores basic terms and fundamental concepts in world politics, examines the bases of national power and the various approaches to an understanding of international relations and major foreign policies, includes a consideration of the elements of international law, order, and politics. No prerequisites (IR-CG). This course is approved for General Education – Distribution 2.

POLI349 POLITICS OF DEFENSE AND NATIONAL SECURITY 3 sem. hrs.

This course offers a political analysis of national security and defense policy making. The emphasis of the study will be on the impact of strategic theory on the policy processes and the effects of security policies upon American society. Prerequisite: **POLI200** or **POLI201** or permission of the instructor (AGP).

POLI365 PROSECUTION AND THE COURTS 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 law, both civil and criminal, the competence and jurisdiction of courts, procedure prior to and during trial and the interpretation of information in the courtroom. Prerequisite: **POLI201** (AGP).

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 (PT).

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 (PT).

POLI395 INTERNSHIP IN POLITICAL SCIENCE 1-15 sem. hrs.**POLI397 TOPICS IN POLITICAL SCIENCE 1-3 sem. hrs.****POLI409 ADMINISTRATIVE LAW 3 sem. hrs.**

This course is an examination of the structure, rules, and dynamics of American administrative law. The course focuses on the federal bureaucracy, its methods of rule making and rule enforcement, and presidential, congressional, and judicial oversight of bureaucratic agencies. Prerequisite: **POLI201** and **POLI306** or **POLI307**, and **POLI343** or permission of instructor.

POLI463 CIVIL LIBERTIES 3 sem. hrs.

In this course students analyze American constitutional law regarding individual and group freedoms. Topics include but are not limited to freedom of expression, free exercise of religion, separation of church and state, substantive due process, reproductive rights, sexual freedom, equal protection of the law, theories of constitutional interpretation, and the dynamics of Supreme Court decision-making. Prerequisite: **POLI201** 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: **POLI201** 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: **CRIM200** or permission of the instructor.

POLI480 RESEARCH METHODS 3 sem. hrs.

This course introduces basic research methodologies common to criminal justice, political science, and other social sciences. Topics include, but are not necessarily limited to, research theory/design, data collection, measurement error, data analysis, use of computers in the research process, and ethical considerations of the research endeavor. Methodologies encompass both common quantitative and qualitative research techniques. Prerequisite: **POLI201** or **CRIM200**.

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: **POLI200** and **POLI201**.

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**.

POLI510 HEALTH CARE POLITICS AND POLICY 3 sem. hrs.

Health Care Politics and Policy will analyze those factors in the political process that influence policy information and decision-making in the American Health Care System. The course will also analyze health care policy with respect to its impact on beneficiaries both in terms of health and non-health goals. This course is approved for General Education – Distribution 2.

POLI511 PUBLIC PERSONNEL ADMINISTRATION 3 sem. hrs.

This course introduces students to the processes involved in structuring a contemporary personnel system within the context of the public service. These processes also have application in business and industry. This course studies career systems, recruitment, wage and salary criteria, evaluation,

staffing, discipline and classification. Additionally, the course considers applicable statutes, collective bargaining, affirmative action plans and workforce diversity. It emphasizes the functions of public personnel managers and administrators in providing public services in an efficient manner. (PA).

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: **POLI201** or **POLI306** or permission of the instructor (PA).

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 (IR-CG).

POLI547 GOVERNMENT AND POLITICS IN THE MIDDLE EAST 3 sem. hrs.

An analysis of the transformation of middle eastern society from Morocco to Iran as case studies in political modernization; special reference to causes and character of modernization; role of leadership ideologies and institutions. Prerequisite: **POLI200** or **POLI240** or permission of the instructor (IR-CG).

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 (IR-CG).

POLI549 AMERICAN FOREIGN POLICY 3 sem. hrs.

This course concerns the formation and conduct of United States relations with other nations of the world. It's emphasis is institutional with policy makers and policy execution at the center of the stage. It also places American foreign policy in its historical and contemporary perspective. Prerequisite:

sites: **POLI201** or **POLI248** or permission of the instructor. This course is approved for General Education – Distribution 2. (IR-CG) (AGP).

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: **POLI248** or permission of the instructor. This course is approved for General Education – Distribution 2 (IR-CG).

POLI560 JURISPRUDENCE 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: **POLI201** or permission of the instructor (PT).

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 (AGP).

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: **POLI200** and **POLI201** or permission of the instructor (PT).

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: **POLI200** or permission of the instructor This course is approved for General Education – Distribution 2 (PT).

POLI609 ADMINISTRATIVE LAW 3 sem. hrs.

This course is an examination of the structure, rules, and dynamics of American administrative law. The course focuses on the federal bureaucracy, its methods of rule making and rule enforcement, and presidential, congressional, and judicial oversight of bureaucratic agencies. Prerequisite: **POLI201** and **POLI306** or **POLI307**, and **POLI343** or permission of instructor.

**POLI623 READINGS IN
LATIN AMERICAN
HISTORY AND
POLITICS** 3 sem. hrs.

This course provides students the opportunity to do individual readings and study primary sources and secondary materials in colonial and modern Latin American history and politics. The reading will be directed by a faculty member. Readings and topics will vary depending on the interests of student and faculty. Students may register for history or political science credit.

**POLI624 SEMINAR IN
LATIN AMERICAN
HISTORY AND
POLITICS** 3 sem. hrs.

This course provides directed research in a specific period or topic. The culminating activity of the course is the preparation of a scholarly paper. Topics and periods will vary, depending upon the faculty member. Students may register for history or political science credit.

**POLI636 CONTEMPORARY
PROBLEMS OF
THE EXECUTIVE
BRANCH** 3 sem. hrs.

Students in this course will study selected problems facing the executive branch at the national, state and local levels. Emphases are placed on the role of the executive in the intergovernmental relations, decision-making processes of the executive and their relationship with policy formation. Prerequisite: **POLI201** (AGP).

**POLI641 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 dept. The study includes Central America, South America, and the Caribbean island-nations. Prerequisites: **POLI200** or **POLI240**.

**POLI663 (GRADUATE
LEVEL) 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: **POLI201** or permission of the instructor.

**POLI665 (GRADUATE
LEVEL)
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: **POLI201** or permission of instructor.

PSYCHOLOGY DEPARTMENT

**PSYC101 GENERAL
PSYCHOLOGY** 3 sem. hrs.

This introductory course constitutes a general survey of the history and of the facts, principles, and methods employed in the study of human behavior. It emphasizes the uses of the scientific method in the study of human behavior. This course is approved for General Education – Core 4.

**PSYC225 PSYCHOLOGICAL
STATISTICS** 3 sem. hrs.

An introduction to the basic concepts and applications of statistics in the behavioral science with emphasis on the analysis and interpretation of experimental data. Topics include measures of central tendency and variation; probability and normal distribution; correlation; estimation; tests of significance; simple analysis of variance. Linked to **PSYC226** which must be taken concurrently. Prerequisites: **PSYC101** and **MATH104** or higher math course with a “C” or better.

**PSYC226 PSYCHOLOGICAL
STATISTICS
COMPUTER LAB
1SEM. HR.**

An introduction to the basic concepts and applications of computer statistical packages in the behavioral science with emphasis on the analysis and interpretation of experimental data. Topics include, introduction to computer statistical packages, setting up data files, data entry and checking, running statistical analyses, interpretation of outputs, and generating graphical representation of data. In addition, computer statistical packages will be taught. Linked to **PSYC225** which must be taken concurrently. Prerequisites: **PSYC101** and **MATH104** with a “C” or better.

**PSYC227 EXPERIMENTAL
PSYCHOLOGY** 3 sem. hrs.

This course introduces laboratory research methods in psychology. It covers all aspects of the research enterprise, including the formulation of research hypothesis, the mechanics of running experiments, statistical analysis, and the preparation of research reports using computers. It also covers both simple experimental designs and factorial designs. Prerequisites: **PSYC225** and **ENGL102** with a “C” or better. This course is approved for General Education – Computer Competency.

**PSYC300 LEARNING
THEORY AND
APPLICATION** 3 sem. hrs.

This course presents the various views of the learning process developed by classical and contemporary theorists. It emphasizes the application of the knowledge gained from each theorist to the various areas of applied psychology. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC301 PSYCHOLOGY OF
ADJUSTMENT** 3 sem. hrs.

This course is aimed at giving students a better understanding of the processes they use in coping with stresses of daily living. It also deals with development of the psychologically healthy person and the effects of maladjustment. There is a brief introduction to the neuroses and psychoses. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC305 PSYCHOLOGY OF
HUMAN
SEXUALITY** 3 sem. hrs.

This course intends to help each student identify and understand the psychological basis for his/her sexual motivation and behavior. In addition, it seeks to develop responsible attitudes in an individual's search for personal sexual fulfillment in his/her understanding of interpersonal relationships. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC310 PSYCHOLOGY OF
CONSCIOUSNESS** 3 sem. hrs.

This course presents a comprehensive study of human consciousness. The focus will be on both ordinary and altered states of consciousness. Specific topics such as dreams, hypnosis, meditation, etc., will be discussed. In addition, major theories and practices of TM, Zen, and existential psychotherapies will be presented. Finally, personal applications as well as implications will be introduced. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC317 DEVELOPMENTAL
PSYCHOLOGY** 3 sem. hrs.

This course describes and synthesizes the current knowledge about the psychological development of children which includes cognitive, emotional, and social developmental factors from conception through adolescence. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC319 PSYCHOLOGY OF
ADULTHOOD AND
AGING** 3 sem. hrs.

This course examines the psychological ramifications of the continuing life processes that occur during early, middle and late adulthood. Several theoretical frameworks for understanding adulthood and aging, as well as the strengths and weaknesses of developmental research, will be reviewed. The aging process is presented as a continuation of the lifecycle as opposed to an end stage. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC325 PSYCHOLOGY OF
CREATIVITY AND
THE ARTS** 3 sem. hrs.

This course will study theories and research in the psychology of creativity, as well as consider practical applications. Topics in psychology of the visual arts and psychology of literature will also be covered. Prerequisite: **PSYC 101**. This course is approved for General Education – Distribution 2.

**PSYC330 SPORT
PSYCHOLOGY** 3 sem. hrs.

This course studies theories, research, and applications in sport psychology. It reviews basic knowledge in psychology such as research methods, social psychology, learning theory, personality theory and

assessment, and how this knowledge has been applied to sport psychology. In addition, the history and the profession of sport psychology is discussed. Prerequisite: **PSYC101**.

PSYC350 DRUGS AND HUMAN BEHAVIOR 3 sem. hrs.

A study of the psychological, behavioral, and clinical effects of drugs including the psychotherapeutics, psychedelics, and narcotics. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

PSYC355 PSYCHOLOGY AND LAW 3 sem. hrs.

This course will cover the role of psychology in criminal investigations, trials, and in corrections. Issues like 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**.

PSYC360 INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY 3 sem. hrs.

The course focuses on the study of both the structure of organizations and the personnel within those organizations. Industrial-organizational psychology examines a variety of issues including the dynamics of leadership, the selection, training, and advancement of individuals; the measurement of attitudes and motivation of workers; group processes; human factors engineering and safety; and industrial clinical psychology. Prerequisite: **PSYC101**. (Students with credits earned in PS470 may not take this course).

PSYC365 ABNORMAL PSYCHOLOGY 3 sem. hrs.

This course covers the major psychiatric and psychological disorders. It discusses etiology, phenomenology, behavioral descriptions, and treatment issues for each of the major diagnostic categories, and broad topics such as ethical issues, legal issues, and community interventions. Prerequisite: **PSYC101**.

PSYC370 PSYCHOLOGY OF PERSONALITY 3 sem. hrs.

This course provides an in-depth exposure to the scientific study of personality. It explores the research methods, type of problems, and theoretical models operative in this area of psychological inquiry. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

PSYC373 INTRODUCTION TO CLINICAL METHODS 3 sem. hrs.

This course presents the major clinical strategies used by the professional psychologist in human service settings. It emphasizes the theoretical and applied aspects of current and emerging psychotherapy systems. Prerequisite: **PSYC101**.

PSYC375 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 sem. hrs.

This course provides knowledge of the theories, principles and problems involved in the assessment of human behavior. It includes assessment techniques involved with the use of group tests, indi-

vidual tests, objective tests, projective tests, situational tests, and interview techniques. Prerequisites: **PSYC101** and **PSYC225**.

PSYC377 PSYCHOLOGY OF THE FAMILY 3 sem. hrs.

Students will develop an in-depth understanding of events and factors that impact healthy and unhealthy family functioning. Family issues will be conceptualized from a variety of family adaptation and family stress models. Emphasis will be placed on challenging family events and transitions including but not limited to parenting, marital distress, aging, dying and death, physical and mental illness, divorce, violence, substance abuse, divorce and remarriage, minority membership, and immigrant status and the relationship these play with regards to clinical services. Prerequisites: **PSYC317** or **PSYC319**.

PSYC380 LEARNING AND MOTIVATION 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, using albino rats as subjects, which are designed to illustrate simple associative learning principles. Using a team-based approach, students will also propose, conduct, write up, and present the results of a research project that deals with one of a select number of learning phenomena. Prerequisites: **PSYC227** and **PSYC300**.

PSYC385 INTRODUCTION TO PROFESSIONAL PSYCHOLOGY 3 sem. hrs.

This course explains the role of the psychologist and the application of psychological principles in human service settings. It teaches clinical skills such as interviewing, it examines the role and motivation of the “helper,” and it provides background information concerning typical treatment strategies, special populations, and common ethical and legal issues. Prerequisite: **PSYC101**.

PSYC387 DEVELOPMENTAL PSYCHOPATHOLOGY 3 sem. hrs.

Students will develop an in-depth understanding of developmental 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. Emphasis will be placed on etiology, prevalence, assessment, diagnosis, and treatment of each disorder discussed. Prerequisites: **PSYC317**.

PSYC388 THEORY AND PRACTICE OF GROUP PSYCHOTHERAPY 3 sem. hrs.

This course will explore the theory and practice of group psychotherapy, an increasingly common intervention in many psychological service settings. Several typical psychological groups will be covered, including inpatient groups, outpatient groups, psychoeducational groups, and self-help groups. Relevant ethical issues will also be addressed. Prerequisite: **PSYC101**.

PSYC390 SOCIAL PSYCHOLOGY 3 sem. hrs.

This course examines the scientific approach toward understanding human social behavior. The course focuses on the perspective of the individual-how people think about, influence, and relate to one another. Topics covered include social cognition, aggression, prejudice, altruism, attitudes and persuasion, group influence and relationships. Prerequisite: **PSYC101**. Approved for General Education Distribution 2.

PSYC395 CLINICAL INTERNSHIP IN PSYCHOLOGY 12 sem. hrs.

Provides practical observation and experiences for the student in an approved human service agency or facility where psychological principles and techniques are used; for example, a rehabilitation center, health center or hospital, or drug-abuse treatment center. Prerequisites: **PSYC385** and permission of the instructor.

PSYC396 RESEARCH INTERNSHIP IN PSYCHOLOGY 12 sem. hrs.

This internship experience provides students with in-depth exposure to all aspects of the research process, from the development of research questions, to data collection and analysis, to the verbal and written presentation of results. Emphasis is on research in non-clinical settings. Prerequisites: **PSYC227** Experimental Psychology and permission of instructor.

PSYC400 COGNITIVE PSYCHOLOGY 3 sem. hrs.

The course content includes a range of psychological processes – pattern recognition, attention, consciousness, learning, memory, concept formation, thinking, imaging, language, problem solving, and developmental processes. Cognitive psychology focuses on how we acquire, transform, store, and retrieve knowledge. Prerequisite: **PSYC101**.

PSYC405 LAB IN COGNITIVE PSYCHOLOGY 3 sem. hrs.

This course permits students to apply principles of statistical analysis and experimental design to research in human cognition. Students first review major topic areas in cognition including attention, short-term memory, long-term memory, imagery, language, and problem solving. Students then design several experiments, collect data, perform statistical analyses, and describe results in APA format. Prerequisite: **PSYC227** and **PSYC400**.

PSYC410 LAB SENSATION AND PERCEPTION 3 sem. hrs.

This course uses and extends the knowledge students gained in statistical analysis and research design and applies it to research in sensation and perception. Students will review experimental design and be exposed to content areas in sensation and perception. Students will conduct an experiment, analyze data, and present findings from their project in APA format. Prerequisites: **PSYC227** and **PSYC400**.

PSYC425 BEHAVIORAL NEUROSCIENCE 3 sem. hrs.

This course introduces contemporary methods of investigation and topics concerning the relationship between the central nervous system and behavior. It discusses cellular structure, neurochemical transmis-

sion, and the anatomical arrangement of the central nervous system. Additionally, the course addresses specific behavioral syndromes resulting from various neuropathological conditions. Prerequisite: **PSYC101**.

PSYC427 APPLIED PSYCHOLOGY LAB 3 sem. hrs.

This course is an in-depth introduction to laboratory research methods in applied psychology (content will vary depending on the research interests of the instructor). The course reviews the key aspects of conducting research (including statistical analysis and experimental design). Students will design, and conduct, analyze, write-up, and present their research. Prerequisite: **PSYC227** and permission of instructor.

PSYC430 LABORATORY IN SOCIAL PSYCHOLOGY 3 sem. hrs.

This course is an in-depth introduction to laboratory research methods in experimental social psychology. It reviews the key aspects of conducting research as well as the major content areas of social psychology. Students will design, conduct, analyze, write-up, and present several experimental projects from different areas of social psychology. Prerequisite: **PSYC227** and **PSYC390**.

PSYC440 SYSTEMS OF BEHAVIORAL INTERVENTION 3 sem. hrs.

The course provides a systematic review of contemporary behavioral intervention methods as they are commonly applied in community psychological service settings. Emphasis will be placed upon student development of the capacity to critically evaluate and compare intervention methods from an eclectic viewpoint. Students will learn to apply principles of statistical analysis and experimental design to research in behavioral intervention. Prerequisite: **PSYC227** and **PSYC300**.

PSYC460 PSYCHOLOGY IN THE INFORMATION AGE 3 sem. hrs.

This course introduces psychology majors to present day electronic techniques used in locating psychological information. Students use both computer databases available at the library and resources available via the internet. Prerequisite: Psychology majors, who have completed **PSYC227** with a "C" or better.

PSYC489 HISTORY AND SYSTEMS OF PSYCHOLOGY 3 sem. hrs.

This 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. Prerequisite: **PSYC227**.

PSYC490- INDEPENDENT STUDY IN 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.

PSYC497 ADVANCED RESEARCH SEMINAR 3-12 sem. hrs.

Seminar for upper-level students who are engaged in research with a faculty mentor in psychology. This course immerses students in aspects of original research, including literature review, oral, and written presentation of results, and provides a common experience for students acquiring research experience. Prerequisite: **PSYC227** and permission of instructor.

PSYC664 CLINICAL NEURO-PSYCHOLOGY 3 sem. hrs.

The purpose of this course is to acquaint the student with an understanding of basic functions and anatomy of the human nervous system as they relate to normal and pathological behavior. Topics covered will include: developmental issues, higher functions such as effective behavior, and neuropsychological assessment. Prerequisite: **PSYC425** or **BIOL103** or permission of the instructor.

PSYC668 PERSONALITY DEVELOPMENT 3 sem. hrs.

This course will present the findings and theories of child psychology relevant to personality growth, along with findings and theories from the psychology of personality towards the goal of achieving an integrative understanding of personality development. Prerequisite: **PSYC317** and **PSYC370** or permission of the instructor.

SOCIAL WORK DEPARTMENT

Social Work Courses

SOWK100 INTRODUCTION TO SOCIAL WORK 3 sem. hrs.

This course introduces the institution of social welfare and the profession of social work. Students will look at some common human needs, and the services which meet them. Values and issues related to the profession of social work, and roles assumed by social workers and related helping professionals in the social service delivery system, will be explored. This course also serves as a beginning career testing opportunity.

SOWK115 HUMAN DIVERSITY 3 sem. hrs.

This course celebrates human differences, developing an appreciation of diversity and multiculturalism. Students will learn the histories and cultures of many U.S. subcultures, including African-Americans, Latinos, Asian-Americans, Native-Americans, women, people with disabilities, sexual minorities and others. No prerequisites. It can be taken as a free elective and part of the Women's Studies curriculum.

SOWK205 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT 3 sem. hrs.

The course reviews significant concepts of systems theory. This review orients the student's frame of reference in a way that promotes understanding and explanation of the subtle and complex relationship between human behavior and the social environment. The course examines factors that shape behavior and the implications of these interactions for social work practice. Prerequisites: **BIOL101**, **SOC100**, **PSYC101** and **SOWK100**.

SOWK250 INTRODUCTION TO SOCIAL WELFARE POLICY 3 sem. hrs.

This second of three courses in the Services-Policy sequence for the Bachelor of Social Work introduces social policy and explains how policy decisions at all levels affect social services, its clients, and the performance of social workers. Prerequisite: **SOWK100** and **SOWK115** or permission of the instructor.

SOWK300 SOCIAL WELFARE POLICY 3 sem. hrs.

This course provides to the student an opportunity to examine critically and analytically the social welfare institution and its relationship to other institutions in our society. Societal attitudes and views toward dependency and deviance, and the way these attitudes translate into social welfare policy and programs will be a unifying theme for the course. The role of the social worker as broker, enabler, therapist, social planner, and advocate will be explored. The necessity for the system to provide linkages between people and resources and to maximize choices and options for people will be a theme throughout. Prerequisite: **SOWK100**.

SOWK310 SOCIAL WORK PRACTICE I 3 sem. hrs.

This course presents the common core of knowledge, skills, and values essential to generalist social work practice. It 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. This course is designed to flexibly meet student needs, and will allow for individually tailored assignments. No prerequisites.

SOWK385 HUMAN SERVICE ADMINISTRATION AND PLANNING 3 sem. hrs.

The purpose of this course is to provide education and experience regarding the unique structure and philosophy of public and private human service organizations. The vital elements of effective human service administration will be emphasized. The significance of planning and sufficient information is also underscored. Current issues in social administration will also be explored.

SOWK390 AGING AND HUMAN SERVICES 3 sem. hrs.

This course will study the social services which are available for the aging in the United States in general and Pennsylvania in particular. It will examine some of the special problems of the aged, while also focusing on the variability of the aging population. Service availability and various unique factors in service delivery to the aged will also be explored.

SOWK395 SOCIAL WORK PRACTICE IN MENTAL HEALTH 3 sem. hrs.

This course is offered as an elective for Level II social work majors and students in related disciplines who have completed at least 60 credits. This course provides a framework for understanding the range of mental health disorders experienced by social work clients. Students learn about mental health diagnoses, services, and policies guiding practice. Mental health disorders will be examined from a strengths-based, bio-psycho-social-cultural-spiritual perspective as consistent with the social work tradition. Prerequisites: Level II Social Work major or permission of the instructor.

SOWK410 SOCIAL WORK PRACTICE III 3 sem. hrs.

This course builds upon SOWK310 and SOWK312 in developing professional knowledge, values, and skills in working with individuals, families, and small groups. It allows students opportunity to focus on a number of specific practice models, and to develop skills in particular social work roles. This course has a three hour per week required field component. Prerequisites: **SOWK310** and **SOWK312**.

SOWK490 INDEPENDENT STUDY 2-5 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

SOWK495 INTERNSHIP: SENIOR FIELD WORK 12 sem. hrs.

This course is a four day per week internship, in an approved agency, under professional supervision. The Field Manual details course goals and objectives, placement criteria and procedures, and evaluation criteria. Prerequisites: All other required social work courses **except SOWK496**, which **MUST** be taken concurrently.

SOWK496 SENIOR SEMINAR 3 sem. hrs.

In the seminar students discuss placements, integrate theory and practice, and deal with professional issues, including involvement in professional organizations, professional graduate education, personnel and social welfare policies, and professional ethics. Prerequisites: All required Social Work courses **except SOWK495**, which **MUST** be taken concurrently with this course.

SOCIOLOGY DEPARTMENT

Sociology Courses

SOC100 PRINCIPLES OF SOCIOLOGY 3 sem. hrs.

This course introduces the logical principles and scientific techniques used in sociology to understand social behavior. The course focuses on culture, norms, status, role, socialization, stratification, industrialization, and urbanization. Emphasis is placed on culturally diverse values and attitudes as they evolve through the major social institutions. This course is approved for General Education – Core 5.

SOC207 CONTEMPORARY SOCIAL PROBLEMS 3 sem. hrs.

This course presents a comprehensive and insightful sociological understanding of specific problems faced in the contemporary society. Each problem will be analyzed for its impact as it impinges on the individual, the group and the larger society. This course is approved for General Education – Distribution 2.

SOC250 HISTORY AND METHODS OF SOCIOLOGY 3 sem. hrs.

The purpose of this course is to develop an appreciation and understanding of the essential features of sociology as an academic discipline. Emphasis will be placed on core sociological concepts, sociological theory, and sociological research methods and analysis. The course attempts to apply the theories and methods of sociology to the study of human society. Prerequisites: **SOC100**, **MATH260**, **CSCI104**, or permission of the instructor.

SOC260 INTRODUCTION TO SOCIOLOGICAL THEORY 3 sem. hrs.

This course introduces the field of sociological theory by examining those classic theorists who have had the greatest impact on the discipline. Some attention will be paid to the social and intellectual contexts in which the theorists worked. Emphasis will be placed on linking the major theoretical contributions to concrete cases of sociological research both basic and applied. Prerequisite: **SOC100** or permission of the instructor.

SOC300 VICTIMOLOGY 3 sem. hrs.

This course will examine the current theory and research regarding victims of crime, which include intimate violence, stranger violence, workplace violence, and school violence. The patterns of crime, patterns of victim-offender relationships, the process and consequences of victimization, victim vulnerability and victim culpability will also be examined. In addition, victim restitution, compensation and mediation will be addressed. Prerequisite: **SOC100**.

SOC305 URBAN SOCIOLOGY 3 sem. hrs.

The study of the urban community and the role which it plays in the social, cultural, economic and political aspects of American society. Included will be the historical development of the city in other parts of the world and the impact of urban values and attitudes on the American way of life. Prerequisite: **SOC100** or permission of the instructor.

SOC310 POPULATION AND ECOLOGY 3 sem. hrs.

An analysis of the composition and distribution of human population and their impact on the ecological system. Study of fertility, morality, and migration, the theory of demographic transition, and the changing ecological bases of social organization. Current problems with emphasis on the relationship between population pressure, life style, and environmental deterioration. Prerequisite: **SOC100** or permission of the instructor.

SOC325 THE SOCIOLOGY OF ROLES 3 sem. hrs.

This course will concern itself with a sociological analysis of the creation, maintenance and transformation of roles. Although cross-cultural examples will be used, emphasis will be on roles, role-learning and role-playing in contemporary American society. Prerequisite: **SOC100**.

SOC326 SOCIETY AND THE INDIVIDUAL 3 sem. hrs.

This course introduces the sociological principles and methods used in the study of the social environment and the individual. Relying on the symbolic interactionist perspective, this course emphasizes major social forces as they impact social behavior. Prerequisite: **SOC100** or permission of the instructor: This course is approved for General Education – Distribution 2.

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, hous-

ing, education, criminal justice, taxes, childcare, and the environment. Prerequisite: **SOC100** and **SOC250** or permission of the instructor.

SOC335 JUVENILE DELINQUENCY 3 sem. hrs.

A sociological analysis regarding the factor contributing to juvenile delinquency, as well as a sociological interpretation of related agencies and professions dealing with such phenomenon. Prerequisite: **SOC100**.

SOC340 SOCIOLOGY OF MARRIAGE AND FAMILY 3 sem. hrs.

This course introduces the institution of marriage and family. Included is an examination of factors influencing family structure, class and ethnic variation, premarital and marital interaction, the parental system, and marriage and family in late life. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

SOC341 SOCIALIZATION OF THE CHILD 3 sem. hrs.

The course presents a scientific study of the child's socialization process. Within the framework of the social and cultural milieu of contemporary American society, each child is considered as a significant individual. Problem families requiring various responses and intervention services will be studied. Prerequisite: **SOC100** or permission of the instructor.

SOC343 SOCIOLOGY OF RELIGION 3 sem. hrs.

This course emphasizes the scientific study of religion based on an examination of religious beliefs and practices in literate and non-literate cultures. The course also focuses upon the relationship of religion to economic and political structures, as well as upon their aspects of life in an industrialized society. Prerequisites: **SOC100** or permission of the instructor.

SOC347 WORK AND SOCIETY 3 sem. hrs.

This course acquaints the student with work organizations in contemporary societies. The social significance of industrial and service employment is treated with regard to leisure, social control, value systems and social structures. The relationship of the work place to the community in pre and post industrialized societies will be discussed from both a practical and theoretical point of view. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

SOC350 INTRODUCTION TO MEDICAL SOCIOLOGY 3 sem. hrs.

The course approaches the medical field from a sociological perspective and specifically focuses on the following dimensions; the distribution and epidemiology, social organization and medical care delivery, and practitioner-patient relationship. Prerequisite: **SOC100**.

SOC364 RACE AND ETHNIC RELATIONS 3 sem. hrs.

This course acquaints the student with the major racial and ethnic groups in contemporary America. Various sociological approaches, both past and present, are used to critically examine ethnicity,

racism, discrimination, and interethnic relations. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

SOC367 SOCIAL MOVEMENTS 3 sem. hrs.

An analysis of theoretical models for the study of social movements followed by the application of historical and current events as they apply to the above models. Prerequisite: **SOC100** or permission of the instructor.

SOC370 SOCIAL GERONTOLOGY 3 sem. hrs.

The intent of this course is to provide a brief, but comprehensive introduction to the field of human aging, with particular emphasis on the social dimension. A brief summary of the impact of aging on biological and psychological functioning is included as useful information enabling the student to better put the social aspects of aging into a realistic context. Prerequisite: **SOC100** or permission of the instructor.

SOC375 SOCIAL PRINCIPLES OF RELIGION AND MYTH 3 sem. hrs.

A thorough review and comprehensive analysis of social principles contained within the sacred literature of world religions and mythology with an emphasis upon the social justice traditions of Christianity and the social impact of applied creeds as expressed in liberation theology, creation spirituality and the social gospel. Prerequisite: **SOC100** or permission of the instructor.

SOC390 SOCIOLOGY OF THE LIFE CYCLE 3 sem. hrs.

This course sociologically analyses the life cycle from childhood through old age. It acquaints the student with the creation, maintenance, and transformation of roles during various stages of life. The impact of social institutions, primary relationships, and occupation are examined as they relate to the process of personal maturation and change. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

SOC395 SOCIOLOGICAL FIELD STUDIES 3-9 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.

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.

SOC430/ SOC730 QUALITATIVE RESEARCH METHODS FOR THE SOCIAL SCIENCES 3 sem. hrs.

This course introduces students to the research methods and strategies used by qualitative researchers in the social sciences. Emphasis is placed on the qualitative study of human behavior and society. Topics addressed include the design of qualitative research, ethical concerns, interviewing, focus groups, ethnographic field strategies, action research, archival strategies, case studies, and content analysis. This course will be useful for sociology majors, and majors from a variety of other disciplines, who expect to work in the area of human service. Prerequisite: **SOC100** or permission of the instructor.

SOC457 SOCIAL STRATIFICATION 3 sem. hrs.

This course is designed to acquaint prospective students with types and forms of systems of differential ranking within societies and their various subsystems. Emphasis is placed on theories and methods in this area, as well as on substantive findings. The theories of class division, problem of mobility, and the source of power-elites, oligarchies, and ruling minorities, bureaucracy, and social power. The sociological framework will focus on social class, social mobility and caste. Prerequisite: **SOC100** or permission of the instructor.

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.

SOC500 APPLIED METHODS IN SOCIOLOGY 3 sem. hrs.

Students in this course will study the 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. Prerequisite: **SOC100**, **SOC250**, or permission of the instructor.

SOC502 CONTEMPORARY SOCIOLOGICAL THEORY 3 sem. hrs.

Analysis of the main trends in contemporary sociological theory and a critical assessment of the various trends. Special consideration will be given to power in the functionalist, mathematical, equilibrium, and evolutionist models. Prerequisite: **SOC100** or permission of the instructor. (Formerly **SOC302**).

**SOC530 SOCIOLOGY OF
DEVIANT
BEHAVIOR 3 sem. hrs.**

This course focuses upon the process by which individuals in our society become labeled as deviant, the reaction of society to deviant behavior, and the methods by which various agencies and individuals attempt to regulate, control and treat deviant behavior. Particular attention is given to the assumption of deviant identities, the formation of deviant subcultures, and the creation of secondary deviance. Prerequisite: **SOC100**. This course is approved for General Education – Distribution 2.

SOC532 CRIMINOLOGY 3 sem. hrs.

The primary focus of this course is upon various types of adult crime in categories such as white collar crime, organized crime, public order crime, professional crime, political crime and violent personal crime. Other topics covered include criminological theory, statistical assessment of criminal behavior, citizen reaction to and involvement with crime, and victimization studies. Prerequisite: **SOC100** or permission of the instructor.

**SOC601 INTRODUCTION
TO
SOCIOLOGICAL
THEORY 3 sem. hrs.**

This is an introductory course in sociological theory designed to acquaint the student with methodological and substantive problems of sociological knowledge; the role of theory in research; controversial issues in theory and research. The main focus is on the works of particular sociologists whose theories have not only historical interest, but also have great impact on the subject matter and methods of contemporary sociology. Prerequisite: **SOC100** or permission of the instructor.

**SOC611 SOCIAL
ORGANIZATION 3 sem. hrs.**

An analysis of the various processes and forms of social organization, with particular attention on theoretical approaches to the study of formal organizations. Emphasis on key concepts and their use in analyzing hospitals, churches, schools, voluntary associations, work organizations and societies. Prerequisite: **SOC100**.

SPEECH, LANGUAGE AND HEARING DEPARTMENT

Speech, Language and Hearing Courses

**SHLD125 PSYCHOLOGY OF
COMMUNICATION 3 sem. hrs.**

This course examines the underlying psychological and cognitive variables affecting human communication, emphasizing the relationship of linguistic and psycholinguistic data to thought. This course is approved for General Education – Core 4.

**SHLD210 SURVEY OF
COMMUNICATION
DISORDERS IN
CHILDREN 3 sem. hrs.**

This course introduces students to human communication disorders occurring in children. It distinguishes between cultural differences, communication disturbances, and communication disorders. Content emphasizes identification, prevention, management, and coping strategies of both children with communication disorder(s) and concerned family members.

**SHLD220 SURVEY OF
COMMUNICATION
DISORDERS IN
ADULTS 3 sem. hrs.**

This course surveys normal and pathological changes associated with aging and their impact on communication. It discusses physical/physiological, psychological, and social aspects of aging in relationship to communication and communication disorders commonly associated with the elderly population.

**SHLD230 INTRODUCTION
TO AUDIOLOGY 3 sem. hrs.**

This course introduces students to the profession of audiology and its scope of practice. It examines basic evaluation procedures and methods of (re)habilitation for individuals with hearing loss. Students with credit earned in SHLD310 may not take this course.

**SHLD300 NORMAL
COMMUNICATION
DEVELOPMENT
ACROSS THE
LIFESPAN 3 sem. hrs.**

This course introduces the student to speech and language development through the lifespan. It emphasizes acquisition of communication, speech, and language in the context of overall child development. Students with credit earned in SHLD140 may not take this course. This course is approved for General Education – Distribution 2.

**SHLD320 MANAGING
ARTICULATION
AND
PHONOLOGICAL
DISORDERS 3 sem. hrs.**

This course examines normal and disordered development of phonology and articulation skills. It presents various philosophies of articulation and phonological remediation. Prerequisite: **SHLD375**. Students with credit earned in SHLD325 may not take this course.

**SHLD340 ADVANCED
LANGUAGE
DEVELOPMENT
AND ANALYSIS 3 sem. hrs.**

This course explores the characteristics of normal language development of the preschool, school age, and adolescent child. Issues of normal language-based literacy (reading, writing, spelling) development are explored, as are language analysis techniques. Prerequisite: **SHLD125** and **SHLD300**. This course is approved for General Education – Distribution 2.

**SHLD350 SPEECH AND
HEARING
SCIENCE 3 sem. hrs.**

This course introduces the physical, biological, and psychological aspects of normal and disordered speech and hearing processes. It also examines the operation and application of specialized clinical and laboratory instrumentation to assessment and therapeutic management. Prerequisite: **SHLD355**.

**SHLD355 ANATOMY AND
PHYSIOLOGY OF
THE SPEECH AND
HEARING 3 sem. hrs.**

This course introduces basic gross and functional normal anatomy and physiology of speech, language, and hearing systems.

**SHLD365 COMPUTER
TECHNOLOGY
APPLICATIONS:
SPEECH-
LANGUAGE
PATHOLOGY/
AUDIOLOGY 3 sem. hrs.**

This course emphasizes the application of basic and discipline-specific computer hardware and software. Prerequisite: **SHLD210** and **SHLD300**. This course is approved for General Education – Computer Competency.

**SHLD375 ACOUSTICAL
PHONETICS AND
PHONETIC
ANALYSIS 3 sem. hrs.**

This course describes the acoustic elements and physics of normal speech sound formation. The International Phonetic Alphabet will be used to code normal speech production.

**SHLD420 OBSERVATION OF
NORMAL AND
DISORDERED
COMMUNICATION 3 sem. hrs.**

This course establishes clinical observational skills and introduces students to clinical planning. It discusses specific procedures, methods, and materials commonly used in service delivery. The course satisfies the supervised clinical observation hours requirement specified by the American Speech-Language-Hearing Association. Prerequisites: **SHLD320** and **SHLD340**.

**SHLD500 NEUROANATOMY
FOR THE SLP 3 sem. hrs.**

This course introduces students to the neuroanatomy and physiology underlying speech and language. It emphasizes an understanding of the nervous system from a neurobiological perspective. Behavioral and communicative disturbances resulting from disease, defect, or injury are discussed. Prerequisite: **SHLD355**.

**SHLD510 CLINICAL
EXPERIENCES 3 sem. hrs.**

This course individually tailors course content to develop each student's competencies for addressing client's needs. Supervisory input will guide report writing, lesson plan/IEP developing, behavioral objective targeting, while providing students with practical experiences in diagnosis and management of language, articulation, fluency, voice, and auditory disorders. Prerequisite: **SHLD420**.

**SHLD515 AUDIOLOGIC
REHABILITATION 3 sem. hrs.**

This course discusses the etiologies and psychological effects of hearing loss emphasizing such habilitative approaches as lipreading, auditory training, and speech therapy. Prerequisite: **SHLD230**.

**SHLD520 COMMUNICATION
DISORDERS
ACROSS
CULTURES 3 sem. hrs.**

This course examines the background, values/beliefs, and language issues of culturally and linguistically diverse populations. Specifically, Black, Latino, Native American, and Asian minorities are targeted to aid in distinguishing language differences from disorders.

**SHLD530 COUNSELING AND
COMMUNICATION
DISORDERS 3 sem. hrs.**

This course provides students with a working knowledge of how a communication disability impacts people and their families. It explores techniques of counseling specific to speech-language pathology and audiology.

F



*University
Faculty*

UNIVERSITY FACULTY

ACADEMIC FACULTY

JOLYNN AGOSTINI, Assistant Professor
Nursing

B.S.N., M.S., University of Michigan, 1977, 1981;
M.B.A., The Pennsylvania State University, 1991

SUZANNE AMENDOLARA, Professor
Art

B.F.A., Miami University, 1985; M.F.A., Indiana
University, 1988

JOHN ASHLEY, Associate Professor
Biology and Health Services

B.S., M.S., Brigham Young University, 1981,
1983; Ph.D., Washington State University, 1988

TERRI ASTORINO, Assistant 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

WENDY WARREN AUSTIN, Associate Professor
English and Theatre Arts

B.A., University of Houston-Victoria, 1985; M.A.,
Purdue University, 1988; Ph.D., Indiana University
of Pennsylvania, 2000

MAX AZICRI, Professor
Political Science and Criminal Justice

B.A., Journalism, Havana School of Journalism,
1956; LL.D., Havana University School of Law,
1959; M.A., Ph.D., University of Southern
California, 1966, 1975

JANET BAKER, Professor
Professional Studies

B.S., Indiana University of Pennsylvania, 1969;
M.Ed., University of Pittsburgh, 1972; Ed.D.,
Harvard University, 1987

LENORE BARBIAN, Associate Professor
History and Anthropology

B.A., Northwestern University, 1985; M.A., Ph.D.,
University of Massachusetts, 1988, 1994

GARY E. BARBOUR, Associate Professor
Organizational Studies

B.S., The Pennsylvania State University, 1974;
M.B.A., University of Pittsburgh, 1975

SHELLE BARRON, Associate Professor
Art

B.A., Mercyhurst College, 1974; M.F.A., Edinboro
University of Pennsylvania, 1985

JEFFERY BARTONE, Assistant Professor
English and Theatre Arts

M.A., State University of New York at Stony
Brook, 1994; Ph.D., Indiana University of
Pennsylvania, 2004

BRUCE BAUMGARTNER, Associate Professor
Student Affairs

B.S., Indiana State University, 1982; M.S.,
Oklahoma State University, 1984

JOHN BAVARO, Associate Professor
Art

B.A., Miami U., 1987; M.F.A., U. of Cincinnati,
1999

GEOFFREY S. BEADLE, Associate Professor
Art

B.F.A., Tyler School of Art, 1995; M.F.A., School
for the Arts, 1997

MARIAN S. BECKMAN, Professor
Professional Studies

B.S., M.Ed., Edinboro State College, 1971, 1974;
Ed.D., Indiana University of Pennsylvania, 1993

IHOR BEMKO, Associate Professor
History and Anthropology

B.A., M.P.A., Texas Tech., 1979, 1982; Ph.D.,
Texas A&M, 1991

DANIEL M. BENNETT, Assistant Professor
Mathematics and Computer Science

B.S., The University of Akron, 1986; M.S., Kent
State University, 1990

KATHLEEN BENSON, Professor
Elementary, Middle and Secondary Education

B.S., M.Ed., Edinboro State College, 1972, 1975;
Ph.D., University of Akron, 1998

LINDA M. BEST, Assistant Professor
Professional Studies

B.S., Edinboro State College, 1974; M.Ed., M.Ed.,
Edinboro University of Pennsylvania, 1985, 1991;
Ed.D., Indiana University of Pennsylvania, 2002

ROSEMARIE E. BLAIR, Associate Professor
English and Theatre Arts

B.A., M.F.A., Arizona State University, 1981,
1984

LUCIANA BOHNE, Assistant Professor
English and Theatre Arts

B.A., New York University, 1965; M.A., Edinboro
University of Pennsylvania, 1972

JAMES BOLTON, Associate Professor
Academic Affairs

B.S., Indiana University of Pennsylvania, 1973;
B.S., Edinboro University of Pennsylvania, 1985;
M.Ed., Westminster College, 1978; Ph.D., Penn
State University, 1992

NANCY M. BRIGGS, Associate Professor
Elementary, Middle and Secondary Education

B.S., M.Ed., The Pennsylvania State University,
1965, 1976; Ed.D., Indiana University of
Pennsylvania, 1994

LISA A. BRIGHTMAN, Associate Professor
Early Childhood and Special Education

B.A., Mercyhurst College, 1984; M.Ed., Edinboro

University of Pennsylvania, 1991; Ed.D.,
University of Pittsburgh, 2001

MICHAEL BUCCELL, Professor
Student Affairs

A.B., Indiana University, 1973; M.A., Ph.D., Kent
State University, 1976, 1979

DENNIS BUCKWALTER, Associate Professor
Elementary, Middle and Secondary Education

B.S., Geneva College, 1975; M.A.Ed., Ph.D.,
Virginia Polytechnic Institute and State University,
1988, 1992

DANIEL BURDICK, Associate Professor
Music

B.M., M.M., Boston University, 1986, 1988;
D.M.A., University of Michigan, 1993

RACHAEL J. BURKE, Professor
Art

B.F.A., Western Kentucky University, 1977;
M.F.A., Miami University, 1983

MARY PANICCIA CARDEN, Associate Professor
English and Theatre Arts

A.A., Broome Community College, 1984; B.A.,
SUNY-Geneseo, 1986; M.A., Ph.D., SUNY-
Binghamton, 1992, 1997

DOROTHY CARLSON, Associate Professor
Nursing

B.S., Villa Maria College, 1971; M.S.N., Edinboro
State College, 1979; D.Ed., The Pennsylvania
State University, 1992

GERALD H. CARNES JR., Assistant Professor
Business and Economics

B.S., The Pennsylvania State University, 1968;
M.B.A., Gannon College, 1974

STEVEN CARPENTER, Assistant Professor
Art

B.S., B.F.A., Edinboro University of Pennsylvania,
1989, 1993, M.F.A., Miami International
University of Art and Design, 2008

XIN-ZHU CHEN, Associate Professor
History and Anthropology

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, Associate Professor
Art

B.S., Towson State University, 1979; M.A.,
M.F.A., University of California at Berkeley, 1985,
1987

GARY CONNELL, Associate Professor
Professional Studies

B.A., M.Ed., University of Maine, 1972, 1975;
Ph.D., University of Georgia, 1979

- ALICE CONWAY, Professor
Nursing
B.S.N., Syracuse University, 1964; M.N., Ph.D.,
University of Pittsburgh, 1968, 1988; CRNP,
Edinboro University of Pennsylvania, 1999
- HILARY COPP, Assistant Professor
Social Work
B.A., Carleton College, 1995; M.A., University of
Chicago, 1999; M.A., University of Georgia,
2003; Ph.D., University of Georgia, 2007
- ALBERT O. CORDELL, Professor
Music
B.M.E., East Carolina University, 1969; M.M.,
Ph.D., Catholic University, 1973, 1992
- CAPPY COUNARD, Professor
Art
B.A., University of Wisconsin, 1992; M.F.A.,
Southern Illinois University, 1999
- KEVIN E. COURTRIGHT, Associate Professor
Political Science and Criminal Justice
B.A., SUNY-Fredonia, 1989; M.S., Mercyhurst
College, 1991; Ph.D., Indiana University of
Pennsylvania, 1995
- WILLIAM COVINGTON JR., Assistant Professor
Communication and Media Studies
B.A., M.A., University of Louisiana-Monroe;
Ph.D., Bowling Green State University, 1994
- SALENE J. COWHER, Professor
Professional Studies
B.S., M.A., Slippery Rock State College, 1975,
1980; Ph.D., University of Pittsburgh, 1984;
N.C.C.
- 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 R. CRISWELL, Professor
Elementary, Middle and Secondary Education
B.S., M.Ed., California University of Pa., 1971,
1978; Ed.D., West Virginia University, 1988
- SUSAN J. CRISWELL, Professor
Early Childhood and Special Education
B.S., Slippery Rock State College, 1973; M.Ed.,
Indiana University of Pennsylvania, 1977; Ed.D.,
West Virginia University, 1989
- CHARLES W. CROSS, Professor
Elementary, Middle and Secondary Education
B.S., M.Ed., Frostburg State College, 1975, 1979;
Ph.D., University of Maryland, 1989
- EILEEN CULLEN, Assistant Professor
Health and Physical Education
B.S., Penn State, 1970; M.Ed., Penn State, 1993;
D.ED., Pennstate, 2001
- SUSAN CURTIN, Associate Professor
Professional Studies
B.S.Ed., Indiana University of Pennsylvania, 1983;
M.Ed., Edinboro University of Pennsylvania,
1990; Ed.D., Youngstown State University, 2002
- JOHN CUSSEN, Associate Professor
English and Theatre Arts
B.A., Don Bosco College, 1977; M.A., Boston
College, 1983; Ph.D., University of Cincinnati,
1993
- JANUSZ CZEJDO, Professor
Foreign Languages
B.A., M.A., University of Warsaw, Poland, 1978,
1979; Ph.D., Brigham Young University, 1989
- KATHLEEN DAILEY, Professor
Professional Studies
B.A., Villa Maria College, 1979; M.Ed., Edinboro
State College, 1982; Ed.D., Indiana University of
Pennsylvania, 1992
- 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
- SEZAI DEMIRAL, Professor
Organizational Studies
B.A., University of Istanbul, 1960; M.B.A., New
York University, 1969; Ph.D., Stern's School of
Business, New York University, 1982
- DAVID DENTON, Associate Professor
Music
B.M., James Madison University, 1981; M.A.,
Kent State University, 1983; Ph.D., University of
Iowa, 1992
- KRISTINE W. DENTON, Associate Professor
Music
B.M., Augsburg College, 1982; M.M., Kent State
University, 1984; D.M.A., University of Iowa,
1993
- MARY C. DESMONE, Assistant Professor
Professional Studies,
B.S. Edinboro University of PA, 1968
M.A. Ed D. University of Pittsburgh, 1975, 1984
- PAUL DITMORE, Assistant Professor
Business and Economics
B.S., University of Pittsburgh, 1969; M.B.A.,
Gannon University, 1982
- MARTHA DONKOR, Associate Professor
History and Anthropology
B.A., University of Cape Coast, 1991; M.A.,
University of Guelph, 1995; Ph.D., University of
Toronto, 2000
- DEBORAH DUBARTELL, Professor
English and Theatre Arts
B.A., University of Rochester, 1982; M.A., Ph.D.,
SUNY at Buffalo, 1985, 1990
- CHARLES A. EDWARDS, Professor
Psychology
B.A., Berea College, 1976; M.A., Ph.D.,
University of Kentucky, 1979, 1983
- PAUL A. EDWARDS, Professor
Chemistry
B.S., University of California at Berkeley, 1968;
Ph.D., Iowa State University, 1972
- KEN A. EGBO, Assistant Professor
Political Science and Criminal Justice
B.S., University of North Texas, 1993; M.A.,
Texas Southern University, 1995; Ph.D., Oklahoma
State University, 2000 ?
- KAREN EISENHART, Associate Professor
Geosciences
A.S., State U. of NY, 1992; B.A., Cornell U.,
1994; M.A., Ph.D., U. of Colorado, 1999, 2004
- MICHAEL ENGDAHL, Assistant Professor
Business and Economics
A.S., Jamestown Comm. College, 1988; B.S.,
Bowling Green State U., 1990; J.D., U. at Buffalo
Law School, 2003
- RICHARD JOEL ERION, Associate Professor
Professional Studies
B.S., Clarion University of Pennsylvania, 1975;
M.Ed., Ed.D., Indiana University of Pennsylvania,
1980, 1994
- KAREN ERNST, Associate Professor
Art
B.A., State University of NY, Suny Geneseo,
1998; M.F.A., Rhode Island School of Design,
2002
- ANTHONY ESPOSITO, Assistant Professor
Communication and Media Studies
B.A., M.A., University of Akron, 1988, 1992;
Ph.D., Bowling Green State University, 1995
- JEAN CROCKETT FAIETA, Professor
Early Childhood and Special Education
B.S., M.Ed., California State College, 1977, 1978;
Ed.D., West Virginia University, 1989
- TERRY E. FARLIK, Assistant Professor
Business and Economics
B.A., Elmiturist College, 1970; M.B.A., Loyola
University, 1972; D.Sc., Robert Morris University,
2006
- KENNETH R. FELKER, Professor
Health and Physical Education
B.S., East Stroudsburg State College, 1978; M.Ed.,
East Stroudsburg University of Pennsylvania,
1984; Ph.D., University of New Mexico, 1991

LINDA J. FELKER, Associate Professor
Health and Physical Education
B.S., Edinboro State College, 1974; M.S., Slippery
Rock State College, 1978; Ph.D., The
Pennsylvania State University, 2004

DAVID FERSTER, Assistant Professor
Political Science and Criminal Justice
B.A., SUNY at Buffalo College, 1973; J.D.,
SUNY at Buffalo School of Law, 1976

IRENE FIALA, Assistant Professor
Sociology
B.B.A., M.B.A., Ph.D., Kent State University,
1987, 1990, 2003

JAMES DANIEL FISHER, Associate Professor
Political Science and Criminal Justice
B.A., Edinboro University of Pennsylvania, 1993;
J.D., William and Mary School of Law, 1997;
M.A., Ph.D., University of Wisconsin-Madison,
1998, 2006

MATTHEW J. FORADORI, Assistant Professor
Biology and Health Services
B.S., Indiana University of Pennsylvania, 1996;
M.S., Ph.D., University of New Hampshire, 1999,
2003

CORBIN FOWLER, Professor
Philosophy
B.A., University of Wyoming, 1970; M.A., Ph.D.,
University of Nebraska, 1975, 1976

MARTIN FOX, Professor
Biology and Health Services
B.S., Monmouth College, 1985; M.S., Ph.D.,
Rutgers, The State University of New Jersey,
1988, 1992

AMANDA M. FRANTZ-MAMANI, Instructor
Foreign Languages
B.A., The Ohio State University, 1985; M.A.,
University of Cincinnati, 1988 ?

DAVID E. FULFORD, Professor
Biology and Health Services
B.S., College of William & Mary, 1981; Ph.D.,
Medical College of Virginia, 1985

BONNIE GAARDEN, Associate Professor
English and Theatre Arts
B.A., M.A., Ohio University, 1975, 1978; M.A.,
Ashland Theological Seminary, 1984; Ph.D.,
SUNY at Buffalo, 1995

DENISE FINAZZO GAINES, Professor
Professional Studies
B.S., M.Ed., Edinboro State College, 1971, 1974;
Ed.D., Indiana University of Pennsylvania, 1992

GERRY GENDLIN, Associate Professor
Political Science and Criminal Justice
B.A., California State University at Northridge,
1985; M.A., Ph.D., Tufts University, 1988, 1992

MICHAEL GENZ, Associate Professor
Art
B.F.A., Edinboro University of Pennsylvania,
2001; M.F.A., Maine College of Art, 2005

BAHER GHOSHEH, Professor
Geosciences
B.A., M.A., Ph.D., SUNY at Buffalo, 1982, 1984,
1988

BENEDICT GIBSON, Professor
Art
B.A., Aquinas College, 1970; M.F.A., University
of Nebraska, 1973

CAROL GLEICHSNER, Associate Professor
Academic Support Services/College of Arts &
Sciences
B.A., State University of New York at Potsdam,
1981; M.Ed., D.Ed., The Pennsylvania State
University, 1983, 2000

KATHLEEN GOLDEN, Professor
Communication and Media Studies
B.S.Ed., M.A., Youngstown State University, 1977,
1982; Ph.D., Kent State University, 1990

GARY S. GRANT, Professor
Music
B.S., University of Illinois, 1985; M.M., Ph.D.,
University of Missouri, 1990, 1993

BARRY GRAY, Assistant Professor
Library
B.S., Rochester Institute of Technology, 1980;
M.S.L.S., Clarion University of Pennsylvania,
1990 M.A. Edinboro University of Pennsylvania,
2005

CYNTHIA M. GRAZIO, Instructor
Speech, Language and Hearing
B.S., M.S., Clarion University, 1994, 1995

LEO GRUBER, Associate Professor
Foreign Languages
B.A., Southwest Texas State University, 1990;
M.A., Texas Tech University, 1995; Ph.D.,
University of Nebraska, 2001

JEFF GRYTA, Associate Professor
Geosciences
B.A., Kean College, 1972; M.A., North Carolina,
1975; Ph.D., The Pennsylvania State University,
1987

QUN GU, Assistant Professor
Chemistry
B.S., Nanjing University; Ph.D., Tufts University,
2007 DIMITRI A. GUSEV, Associate Professor
Mathematics and Computer Science
M.S., Ph.D., Indiana University, 1996, 1999

MICHAEL J. HAHESEY, Assistant Professor
Health and Physical Education
B.S., Edinboro University of Pennsylvania, 1987;
M.Ed., St. Bonaventure University, 1993; Ed.D.,
Indiana University of Pennsylvania, 2002

SHARON HAMILTON, Professor
Psychology
B.A., Lock Haven University of Pennsylvania,
1977; M.A., East Carolina University, 1980;
Ph.D., West Virginia University, 1985

MELISSA K. GIBSON HANCOX, Associate
Professor
Communication and Media Studies
B.A., Edinboro University of Pennsylvania, 1992;
M.A., Ph.D., Ohio University, 1995, 1997

JAY M. HANES, Associate Professor
Art
B.F.A., Columbus College of Art and Design,
1980; M.S., Florida State University, 1991; Ph.D.,
The Ohio State University, 1994

MARK H. HANEY, Associate Professor
Business and Economics
B.A., M.A., Ohio State University, 1991, 1995;
M.B.A., Case Western Reserve University, 1998;
Ph.D., University of Pittsburgh, 2009

GARY HANNA, Assistant Professor
Student Affairs
B.S., Indiana University of Pennsylvania, 1978;
M.S., United States Sports Academy, 1980

MICHAEL J. HANNAN, Acting Manager
B.A., University of Pittsburgh, 1984; Ph.D., West
Virginia University, 1988

LANCE HANNES, Associate Professor
Organizational Studies
B.S., M.A., M.B.A., SUNY at Buffalo, 1967,
1968, 1987

ROBERT BERNARD HASS, Professor
English and Theatre Arts
B.A., M.F.A., Ph.D., Pennsylvania State
University, 1985, 1993, 1999; M.A., University of
Florida,

1987 VICTORIA HEDDERICK, Assistant
Professor
Nursing
B.S., Pennsylvania State University, 1983
M.S.N., La Salle University, 1990; D.Ed.,
Indiana University of Pennsylvania, 2009

SUSAN HEGEL, Assistant Professor
Speech, Language and Hearing
B.A., Kalamazoo College, 1979; M.S., Colorado
State University, 1983; Ph.D., University of
Oregon, 1998

ROBERT W. HELLSTROM, Assistant Professor
English and Theatre Arts
B.A., University of Oregon, 1970; M.A.,
University of Oregon, 1975; Ph.D., University of
Oregon, 1979

JAMES HENSON, Assistant Professor
Mathematics and Computer Science
B.A., Hiram College, 1968; M.S. Ed., Youngstown
State, 1972

- DENNIS HICKEY, Associate Professor
History and Anthropology
B.A., M.A., Michigan State University, 1973, 1975; Ph.D., Northwestern University, 1985
- PATRICIA HILLMAN, Associate Professor
Mathematics and Computer Science
B.S. Bowling Green State University, 1982;
M.S. Bowling Green State University, 1989
- DONNA HIXON, Professor
Social Work
B.A., M.S.W., West Virginia University, 1970, 1973; M.P.H., Ph.D., University of Pittsburgh, 1990, 1992
- GERALD J. HOFFMAN, Assistant Professor
Chemistry
B.S., Townson State University, 1981; M.S., Ph.D., Cornell University, 1983, 1989
- JOHN W. HOGGARD, Assistant Professor
Mathematics and Computer Science
B.A., Oberlin College, 1993; M.S., Ph.D., Virginia Polytechnic Institute and State University, 1995, 2000
- ROBERT HOLDERER, Associate Professor
English and Theatre Arts
B.A., Houghton College, 1972; M.A., Middlebury College, 1976; M.E.P.D., University of Wisconsin, 1986; Ph.D., Oklahoma State University, 1992
- JO ANN HOLTZ, Professor
Elementary, Middle and Secondary Education
B.S., Kent State University, 1969; M.Ed., Gannon University, 1989; Ph.D., Kent State University, 1994
- KARIM HOSSAIN, Professor
Physics and Technology
B.S., Dacca University, 1979; M.S., M.S., Southern Illinois University, 1983, 1984; Ph.D., SUNY-Buffalo, 2001
- ALLEN HOWELL, Professor
Music
B.A., Whitman College, 1984; M.A.T., Portland State University, 1985; D.M.A., University of Oregon, 1993
- DALE M. HUNTER, Professor
Biology and Health Services
B.S., Brooklyn-City University of New York, 1979; M.Phil., Ph.D., City University of New York, 1983, 1987
- WILLIAM R. HUNTER, Professor
English and Theatre Arts
B.A., DePauw University, 1985; M.A., Ph.D., Purdue University, 1988, 1993
- DAVID HURD, Professor
Geosciences
B.S., Iowa State University, 1984; M.S. University of Nebraska, 1991, Ph.D., Cleveland State University, 1997
- ELIZABETH IGLESIAS, Associate Professor
Academic Support Services/School of Education
B.A., Universidad de Puerto Rico, 1973; M.A., Universidad Interamericana Rio Piedras, 1980; M.Ed., D.Ed., Penn State, 1982, 1988
- KOSIN ISARIYAWONGSE, Assistant Professor
Business and Economics
B.A., Chulalongkorn University, 1996; M.S., M.A., University of Illinois, 1998, 2002; Ph.D., Oregon State University, 2009
- JOYCE JAGIELO, Associate Professor
Psychology
B.A., B.S., University of Dayton, 1978, 1979; M.A., Ph.D., University of Kentucky, 1983, 1989
- ASRI JANTAN, Associate Professor
Business and Economics
B.S., International I. University of Malaysia, 1992; M.S., University of Colorado, 1995; Ph.D., Old Dominion University, 2000
- TODD JAY, Assistant Professor
Student Affairs B.A., M.S., Clarion University of Pennsylvania, 1982, 1985
- BRIDGET JEFFERY, Assistant Professor
Political Science and Criminal Justice
B.A., Benedictine College, 1980; M.A., Ph.D., University of Kansas, 1983, 1994
- JERRA L. JENRETTE, Professor
History and Anthropology
B.A., Mars Hill College, 1983; M.A., Appalachian State University, 1985; Ph.D., West Virginia University, 1996
- CHARLES JOHNSON, Professor
Art
M.A., M.F.A., University of Wisconsin, 1987, 1989
- JEAN JONES, Professor
Communication and Media Studies
B.S., M.A., Wright State University, 1988, 1989; Ph.D., University of Pittsburgh, 1995
- PATRICK R. JONES, Assistant Professor
Music
B.M., University of Iowa, 1996; M.M., Eastman School of Music, 1998; D.M.A., University of Minnesota, 2004
- ELISABETH JOYCE, Professor
English and Theatre Arts
B.A., University of Chicago, 1980; M.A., University of Delaware, 1984; Ph.D., Temple University, 1991
- JUANITA KASPER, Assistant Professor
Early Childhood and Special Education
B.S., Indiana University of Pennsylvania, 1980; M.S., University of South Florida, 1996; Ph.D., Kent State University, 2006
- NAOD KEBEDE, Professor
Chemistry
B.S., Addis Ababa University, 1986; M.S., University of Gent, 1993; Ph.D., Worcester Polytechnic Institute, 1998
- HEATHER A. KENNY, Instructor
Professional Studies
B.A., Gannon University, 1989;
B.E., York University, 1993; M.Ed., Ph. D., The University of Toledo, 2006, 2009
- TADESSE KIDANE-MARIAM, Assistant Professor
Geosciences
B.A., Haile Selassie University, 1969; M.A., Kansas State University, 1974; Ph.D., University of Iowa, 2001
- KOREY D. KILBURN Assistant Professor
Mathematics and Computer Science
B.S. Edinboro University of PA, 1999
M.S., Miami University, 2001; M.S., Ph.D., University of Akron 2009, 2010
- JUNG S. KIM, Associate Professor
Business and Economics
B.A., M.B.A., Ph.D., The University of Texas, 2001, 2004, 2009
- JANET C.B. KINCH, Professor
English and Theatre Arts
B.A., Kenyon College, 1976; M.A., Ph.D., Bowling Green State University, 1981, 1982, 1986
- JAMES KIRK, Associate Professor
Physics and Technology
B.S., Rutgers University, 1981; M.S., University of New Hampshire, 1984; Ph.D., Pennsylvania State University, 2006
- MARK S. KOSCO, Assistant Professor
Biology and Health Services
B.S., University of Delaware, 1978; M.S., Mississippi State University, 1980; Ph.D., University of Minnesota, 1986
- DEBRA KUBINSKI, Professor
Nursing
B.S.N., University of Pittsburgh, 1977; M.S.N., Edinboro State College, 1983; Ph.D., Duquesne University, 1999
- PETER J. KUVSHNIKOV, Assistant Professor
Physics and Technology
Assoc., B.S., M.S., Penn State U., 1990, 1999, 2003
- GARY LaBINE, Professor
Psychology
B.A., Westfield State College, 1983; Ph.D., State University of New York at Buffalo, 1990
- SUSAN LaBINE, Professor
Psychology
B.A., Allegheny College, 1982; M.A., Ph.D., State University of New York at Buffalo, 1989, 1991
- WERNER LANGE, Assistant Professor
Sociology
B.A., M.A., Ohio State University, 1968, 1972; Ph.D., Johann Goethe University, 1975; D.Min., Ashland Theological Seminary, 1994

PAMELA LASHER, Professor
Mathematics and Computer Science
B.S., M.Ed., Edinboro State College, 1974, 1991;
M.S., Youngstown State University, 1995; Ph.D.,
Kent State University, 2001

HENRY LAWRENCE, Professor
Geosciences
B.A., Yale University, 1968; B.L.A., M.L.A.,
Ph.D., University of Oregon, 1977, 1978, 1985

DANIELLE LAWSON, Assistant Professor
Communication and Media Studies
B.S. Western Carolina University, 1997
Ph.D. Queensland University of Technology, 2009

JOSEPH LAYTHE, Professor
History and Anthropology
B.A., Carroll College, 1987; M.A., Portland State
University, 1992; Ph.D., University of Oregon,
1996

KATHLEEN N. LEE, Assistant Professor
Nursing
B.S., B.S.N., Edinboro State College, 1969, 1978;
M.S.N., University of Pittsburgh, 1985

WOOK LEE, Assistant Professor
Geosciences
B.A., M.F.A., Seoul National University, 1994,
1996; Ph.D., Ohio State University, 2005

CYNTHIA LEGIN-BUCELL, Professor
Psychology
B.A., Edinboro State College, 1975; M.A., Ph.D.,
Kent State University, 1977, 1979

PATRICIA S. LEIGH, Assistant Professor
Speech, Language and Hearing
B.S., State University of New York at Geneseo,
1995; M.A. State University of New York at
Buffalo, 1996; Ph.D., State University of New
York at Buffalo, 2003

GARY LEVINE, Professor
Psychology
B.S., University of Maryland, 1989; Ph.D., Indiana
University, 1996

PETER V. LINDEMAN, Professor
Biology and Health Services
B.A., B.S., Eastern Illinois University, 1985; M.S.,
University of Idaho, 1988; Ph.D., University of
Louisville, 1997

THOMAS LIPINSKI, Assistant Professor
English and Theatre Arts
B.A., M.F.A., University of Pittsburgh, 1978, 1991

PAUL LISOWSKI, Assistant Professor
Organizational Studies
B.S., M.B.A., University of Pittsburgh, 1972, 1975

RICHARD J. LLOYD, Assistant Professor
Physics and Technology
B.S., Northeast Missouri State University, 1995;
M.S., Ph.D., Iowa State University, 1999, 2003

JAMES C. LoPRESTO, Professor
Physics and Technology
B.S., M.S., Case Institute of Technology, 1962,
1965; Ph.D., University of Michigan, 1974

DENNIS LUTZ, Instructor
Speech, Language and Hearing
B.S., Edinboro University of Pennsylvania, 1980;
M.A., Edinboro University of Pennsylvania, 1988

HOWARD LYON, Instructor
Music
B.A., Michigan State University, 1962

JOHN LYSAK, Professor
Art
B.A., Evergreen State College, 1984; M.F.A.,
Carnegie Mellon University, 1988

WILLIAM J. MacKAY, Associate Professor
Biology and Health Services
B.S., McGill University, 1977; M.A., Holstra
University, 1979; Ph.D., Carnegie-Mellon
University, 1984

SUSAN C. MALONEY, Assistant Professor
Nursing
B.S., Edinboro University of Pennsylvania, 1994;
M.S., Gannon University, 1997; Ph.D., Walden
University, 2009

BRIGETTE MARSHALA, Assistant Professor
Art
B.F.A., Edinboro University; M.F.A., Temple
University

DAVID W. MARTIN, Associate Professor
Art
B.F.A., University of Oklahoma, 1986; M.F.A.,
Virginia Commonwealth University, 1989

FRANK MARZANO, Associate Professor
Mathematics and Computer Science
B.S., University of Illinois at Urbana-Champaign,
1988; M.S., Northern Illinois University, 1990;
Ph.D., Northern Illinois University, 1995

WILLIAM MATHIE, Associate Professor
Art
B.F.A., Milwaukee Institute of Art and Design,
1985; M.F.A., Indiana University, 1989

RHONDA MATTHEWS, Associate Professor
Sociology
B.A., Alcorn State University, 1984; M.S.,
Mississippi State University, 1986; Ph.D.,
University of Oklahoma, 1998

MONTY McADOO, Associate Professor
Library
B.A.'s, Thiel College, 1985; M.A., Edinboro
University of Pennsylvania, 1988; M.L.S., Library
Science, University of Pittsburgh, 1994; D.Ed,
Indiana University of Pennsylvania, 2008

AMY McCLUNE, Associate Professor
Nursing
B.S.N., Edinboro State College, 1982; M.S.N.,
Edinboro University of Pennsylvania, 1988; Ph.D.,
University of Pittsburgh, 2001

ROBERT B. McCONNELL, Professor
Student Affairs B.A., Salem College, 1974; M.S.,
West Virginia University, 1976; M.A., Salem
College, 1981;
Ed.D., West Virginia University, 1986

MARY McDADE, Instructor
Health and Physical Education
M.S., Penn State University, 1990; M.A., Edinboro
University, 1999

SUZANNE McDEVITT, Associate Professor
Social Work
B.A., M.S.W., Ph.D., University of Pittsburgh,
1973, 1982, 1992

VIRGINIA L. McGINNIS, Assistant Professor
Early Childhood and Special Education
B.S., M.Ed., Edinboro University of Pennsylvania,
1969, 1972; Ed.D., University of Pittsburgh, 2001

TERRENCE McKELVEY, Associate Professor
Art
B.F.A., Maine College of Art, 1988; M.F.A.,
Cornell University, 1993

GRANT McLAREN, Professor
Psychology
B.A., Emory & Henry College, 1986; M.S., Ph.D.,
Washington State University, 1991, 1992

PETER J. McLAUGHLIN, Associate Professor
Psychology
B.A., New York University, 1996; M.A., Ph.D.,
SUNY, Stony Brook, 1999, 2001

ANTHONY McMULLEN, Instructor
Library
B.A., Clarion University of Pennsylvania, 1991;
M.S.L.S. Clarion University of Pennsylvania,
1994; M.S. Capella, University, 2007

MARY JO MELVIN, Professor
Early Childhood and Special Education
B.S., Edinboro State College, 1975; M.Ed.,
Edinboro University of Pennsylvania, 1990; Ph.D.,
University of Akron, 1995

TIMOTHY MEYER, Assistant Professor
Mathematics and Computer Science
A.S., The Pennsylvania State University, 1978;
B.S., The Ohio State University, 1981; M.S.,
Ph.D., SUNY at Binghamton, 1985, 1995

BARBARA MILLER, Assistant Professor
Professional Studies
B.S., Edinboro University, 1973; M.A., Edinboro
University, 1992; Ph.D., University of Pittsburgh
2001

LAURA MILLER, Associate Professor
Health and Physical Education
B.S., Ph.D., University of Maryland at College
Park, 1989, 1999; M.A., Miami University at
Oxford Ohio, 1993

- SCOTT E. MILLER, Associate Professor
Business and Economics
B.S., Gannon University, 1993; J.D.,
University of Pittsburgh, 1997;
DBA., Anderson University, 2008,
- KIRAN MISRA, Professor
Biology and Health Services
B.S., University of Philippines at Los Banos,
1978; Ph.D., Cornell University, 1984
- MARTIN J. MITCHELL, Professor
Biology and Health Services
B.S., SUNY-Geneseo, 1981; M.S., Ph.D., Bowling
Green State University, 1983, 1987
- TAMMY MITTEN, Assistant Professor
Professional Studies
B.A., Indiana University of Pennsylvania, 1982;
M.A., Edinboro University of Pennsylvania, 1985;
Ph.D., Purdue University, 1994
- REBECCA MOKRIS, Assistant Professor
Student Affairs
B.S., Indiana University, 2001; M.S., West
Virginia University, 2004
- JOSEPH MOLNAR, Assistant Professor
Mathematics and Computer Science (2005)
B.S., Westminster College, 1984; M.S., Virginia
Polytechnic Institute and State University, 1986;
M.S., University of Pittsburgh, 1990
- CHARLOTTE MOLRINE, Professor
Speech, Language and Hearing
B.A., Stephens College, 1978; M.A., Edinboro
State College, 1982; Ph.D., Kent State University,
1998
- KAREN MORAHAN, Instructor
Nursing
B.S.N., Dominican College, 1990; M.S.,
University of Maryland, 1998
- GAYLE MORRIS, Professor
Business and Economics
B.A., M.A., Bowling Green State University,
1972, 1975; Ph.D., University of
Nebraska-Lincoln, 1981
- GREGORY MORROW, Professor
Psychology
B.A., DePauw University, 1979; M.A., Ph.D.,
University of Kentucky, 1985, 1988
- KERRY MOYER, Professor
Geosciences
B.S., M.S., Ph.D., Pennsylvania State University,
1987, 1989, 1993
- NAZIR A. MUGHAL, Professor
History and Anthropology
B.A., M.A., L.L.B., University of Sind, Pakistan,
1958, 1961, 1963; Ph.D., Southern Illinois
University, 1971
- DONNA M. MURPHY, Professor
Early Childhood and Special Education
B.S.Ed., M.S.Ed., University of Kansas, 1976,
1978; Ph.D., University of Virginia, 1986
- ELVAGE MURPHY, Assistant Professor
Political Science and Criminal Justice
B.S., Edinboro University of Pennsylvania, 1987;
J.D., West Virginia University, 1993
- STEVEN R. NACHMAN, Professor
History and Anthropology
B.A., University of Pennsylvania, 1967; M. Phil.,
Ph.D., Yale University, 1969, 1978
- AUDRA NEUMANN, Instructor
Student Affairs
M.A., Edinboro University of PA, 1992
- RUTH NASH-THOMPSON, Professor
Early Childhood and Special Education
B.A., Fisk University, 1956; M.A., Case Western
Reserve University, 1971; Ph.D., Kent State
University, 1995
- JANET NEWCAMP, Assistant Professor
Nursing
B.S., Villa Maria College, 1970; M.N., University
of Pittsburgh, 1972
- MARY NIENTIMP, Instructor
Early Childhood and Special Education
B.S., Edinboro University of Pennsylvania, 1986;
M.Ed., Edinboro University of Pennsylvania, 1989
- CAROLINE NOBILE, Associate Professor
English and Theatre Arts
B.A., Kean College, 1972; M.A., North Carolina
State University, 1977; Ph.D., The Pennsylvania
State University, 1988
- SUSAN C. NORTON, Professor
Professional Studies
B.A., Baldwin-Wallace College, 1971; M.S.,
University of Dayton, 1984; Ph.D., Iowa State
University, 1992
- PATRICIA NOSEL, Associate Professor
Nursing
B.S., Indiana University of Pennsylvania, 1974;
M.N., University of Pittsburgh, 1978
- DAVID C. OBRINGER, Associate Professor
Library
B.A., University of Pittsburgh, 1976; M.A., St.
Bonaventure, 1985; M.L.S., University of
Pittsburgh, 1987
- ROSEMARY OMNIEWSKI, Professor
Early Childhood and Special Education
B.A., Temple University, 1971; M.Ed., Edinboro
State College, 1980; Ph.D., Kent State University,
1999
- JOHN ONDERKO, Assistant Professor
Mathematics and Computer Science (2005)
B.S., M.B.A., Gannon University, 1971, 1978;
M.S., Southern Methodist University, 2006
- PENELOPE ORR, Assistant Professor
Art
B.A., Furman University, 1990; M.A., School of
the Art Institute of Chicago, 1993; Ph.D., Purdue
University, 2003
- ANNE ORTEGA, Assistant Professor
Music
B.M., Southeastern Oklahoma State University,
1993; M.M., Texas Woman's University, 1995;
D.M.A., California State University-Santa Barbara,
2002
- SUSAN H. PACKARD, Associate Professor
Professional Studies
B.A., M.A., Edinboro University of Pennsylvania,
1975, 1977; Ph.D., SUNY-Buffalo, 1997
- LAURIE A. PARENDES, Professor
Geosciences
B.A., Wake Forest University, 1980; M.S.,
University of Florida, 1983; Ph.D., Oregon State
University, 1997
- JAMES S. PARLIN, Professor
Art
B.A., M.F.A., University of Pennsylvania, 1976,
1981
- BRADFORD A. PATTULLO, Assistant Professor
Art
B.A., University of Michigan, 1995; M.F.A.,
Savannah College of Art and Design, 2002
- ANTHONY PEYRONEL, Associate Professor
Communication and Media Studies
B.A., Edinboro State College, 1983; M.A.,
American University, 1984; Ed.D., University of
Pittsburgh, 1998
- ELLEN PFADT, Associate Professor
Nursing
B.S., Villa Maria College, 1971; M.S.N., Edinboro
State College, 1979
- WILLIAM D. PITHERS, Professor
Psychology
B.A., Edinboro State College, 1974; M.A., Ph.D.,
Kent State University, 1976, 1980
- JOHN POLO JR., Assistant Professor
Physics and Technology
B.S., University of Massachusetts, 1973; Ph.D.,
University of Virginia, 1979
- JACQUELINE POWER, Assistant Professor
Elementary Middle and Secondary Education
B.S., M.S., The College of Saint Rose, 1973,
1985; M.F.A., Washington University of St. Louis,
1991
- GWYNETH PRICE, Assistant Professor
Elementary Middle and Secondary Education
B.S., Bucknell University, 1993; M.Ed., Ph.D.,
Penn State University, 2003, 2006
- DAVID PUGH, Associate Professor
Social Work
B.S., M.S., Youngstown State University, 1982,
1983; M.S.W., Ph.D., University of Maryland,
1987, 1991

DOUGLAS PUHARIC, Assistant Professor
Mathematics and Computer Science
B.S., Clarion State University, 2000; M.A.,
Bowling Green University, 2001; Ph.D., Bowling
Green
University, 2006

ANDREW J. PUSHCHAK, Associate Professor
Professional Studies
B.S., M.Ed., Edinboro University of Pennsylvania,
1993, 1996; Ed.D., Youngstown State
University, 2005

ANNE QUINN, Professor
Mathematics and Computer Science
B.A., Concordia College, 1988; M.A., Miami
University of Ohio, 1990; Ph.D., Kent State
University, 1997

BARBARA F. RAHAL, Professor
Professional Studies
B.S., West Virginia Institute of Technology, 1970;
M.Ed., Ed.D., West Virginia University, 1974,
1986

ELEANOR P. RANDALL, Assistant Professor
Library
B.S., 1965; M.S., The Pennsylvania State
University, 1973; M.L.S., SUNY-Buffalo, 1983

SHAWN REAGAN, Assistant Professor
Health and Physical Education
B.A., St. Bonaventure University, 1985; M.Ed.,
University of Toledo, 1988; D.Ed., Indiana
University of Pennsylvania, 2005

CYNTHIA E. REBAR, Professor
Biology and Health Services
B.S., Kent State University, 1976; M.S., New
Mexico State, 1980; Ph.D., Kansas State, 1988

JOSEPH F. REESE, Professor
Geosciences
B.S., Edinboro University of Pennsylvania, 1986;
M.S., University of Wisconsin, 1988; Ph.D.,
University of Texas at Austin, 1995

DONALD J. RENN, Associate Professor
Chemistry
B.S., Waynesburg College, 1957; M.S., Bucknell
University, 1965, 1971; M.A., Oberlin
College, 1983

JOHN REPP, Professor
English and Theatre Arts
B.A., Franconia College, 1977; M.A., Central
Michigan University, 1980; M.F.A., University of
Pittsburgh, 1985

SHELDON L. REXRODE, Professor
Art
B.A., Indiana University of Pa., 1978; M.F.A.,
Rochester Institute of Technology, 1982

GEORGE E. RICHARDS II, Associate Professor
Political Science and Criminal Justice
B.A., M.S., University of Louisville, 1992, 1994;
Ph.D., University of Akron/Cleveland State
University, 2004

GEORGE M. ROBERTS, Associate Professor
Health and Physical Education
B.S., Edinboro State College, 1976; Athletic
Training Certificate, West Chester State College,
1976; M.Ed., Slippery Rock State College, 1980

JAMES W. ROBERTS JR., Assistant Professor
Health and Physical Education
B.S., Edinboro University of Pennsylvania, 1993;
M.B.A., Gannon University, 1997; Ph.D.,
University of Pittsburgh, 2004

THOMAS J. RODEN, Associate Professor
Elementary, Middle and Secondary Education
B.S., M.S., Clarion State College, 1976, 1980;
D.Ed., Indiana University of Pennsylvania, 1999

JANET S. ROGERS, Professor
Chemistry
B.S., Monmouth College, 1983; A.M., Ph.D.,
Washington University, 1985, 1989

DELBERT L. ROUNDS, Associate Professor
Political Science and Criminal Justice
B.S., M.P.A., The Pennsylvania State University,
1986, 1987; Ph.D., Indiana University of
Pennsylvania, 1993

PAUL R. ROVANG, Professor
English and Theatre Arts
B.A., M.A., North Dakota State University, 1985,
1987; Ph.D., Michigan State University, 1991

ROSELLE SCAGGS, Associate Professor
Social Work
B.A., M.S.N., St. U. of NY at Buffalo, 1992,
1994; Ph.D., U. at Buffalo, 2003

BONNIE J. SCARPINO, Assistant Professor
Health and Physical Education
B.S., Edinboro State College, 1973; M.S., Slippery
Rock State College, 1977

CORINNE M. SCHAEFFER, Associate Professor
Mathematics and Computer Science
B.S., Ohio Northern University, 1990; M.A.,
University of Toledo, 1992; Ph.D., State
University of New York at Buffalo, 2003

AMY SCHMIDT, Instructor
Biology and Health Services
B.S. Villa Maria College, 1979;
M.S. Edinboro University of PA, 1997

FREDERICK H. SCRUTON JR., Assistant
Professor
Art
M.F.A., Pratt Institute, 1981

KAREN SEUBERT, Assistant Professor
Philosophy
B.A., M.A., Ph.D., The Pennsylvania State
University, 1966, 1970, 1974

DONALD G. SHEEHY, Professor
English and Theatre Arts
B.A., SUNY at Albany, 1975; M.A., University of
Kansas, 1977; Ph.D., University of Virginia, 1986

ROY E. SHINN JR., Professor
Speech, Language and Hearing
B.S., Edinboro State College, 1982; M.S., Ph.D.,
University of Oklahoma, 1984, 1987

JEREMY SIDERIS, Assistant Professor
English and Theatre Arts
B.A., B.A., State University College, 1994, 1997;
M.A., Angelo State University, 1999; Ph.D., New
Mexico State University, 2004

BARBARA A. SIPLE, Associate Professor
Student Affairs B.A., Edinboro State College,
1981; M.A., Edinboro University of Pennsylvania,
1986; Ph.D.,
The Fielding Institute, 2004

MICHAEL A. SKELLY, Assistant Professor
Psychology
B.A., Edinboro University of Pennsylvania, 1997;
M.A., Ph.D., Binghamton University, S.U.N.Y.
2000, 2004

BRUCE D. SKOLNICK, Assistant Professor
Academic Support Services/ College of Arts &
Sciences
B.S., M.Ed., The Pennsylvania State University,
1977, 1978

ANDRE SMITH, Assistant Professor
History and Anthropology
B.S., Northern Illinois University, 1982; M.A.,
Cornell, 1984

ANDREW SMITH, Professor
Communication and Media Studies
B.S., M.S., Ph.D., Southern Illinois University,
1976, 1977, 1990

JOANNE H. SMITH, Associate Professor
Chemistry
B.S., Allegheny College, 1971; Ph.D., University
of Delaware, 1976

LaTANYA D. SMITH, Assistant Professor
Organizational Studies
B.A., North Carolina Central University, 1974;
M.B.A., Eastern New Mexico University, 1981

MARGARET L. SMITH, Assistant Professor
Social Work
B.A., Temple University, 1973; M.S., University
of Michigan, 1975; M.P.H., Ph.D., University of
Pittsburgh, 1998, 1999

DAWN M. SNODGRASS, Professor
Professional Studies
B.S., M.Ed., Edinboro State College, 1977, 1978;
Ph.D., Akron University, 1991

EDWARD SNYDER, Professor
Professional Studies
B.A., M.S., Bucknell University, 1989, 1991;
Ph.D., Lehigh University, 2000

HEATHER T. SNYDER, Associate Professor
Psychology
B.A., LaSalle University, 1994; M.A., John Jay
College of Criminal Justice, 1996; Ph.D., Fordham
University, 2002

- ROGER L. SOLBERG, Associate Professor
English and Theatre Arts
B.A., Upsala College, 1975; M.S.Ed., Indiana University (Bloomington), 1977; M.A., University of Iowa, 1985; Ph.D., Indiana University of Pennsylvania, 1999
- ULF SORHANNUS, Associate Professor
Biology and Health Services
M.S., University of Helsinki, 1983; M.A., Queens College of the City University of New York, 1988; Ph.D., The Graduate School of the City University of New York, 1989
- RONALD SPILLER, Assistant Professor
History and Anthropology
B.A., Northwestern State University, 1970; M.A., Stephen F. Austin State University, 1986; Ph.D., Texas A&M University, 1993
- FRANZ SPOHN, Assistant Professor
Art
B.F.A., M.F.A., Ohio State University, 1973, 1975
- EMILY SPRAGUE, Assistant Professor
Mathematics and Computer Science
B.A., Castleton College, 1993; Ph.D., Kent State University, 2003
- JANIS STAMM, Professor
Business and Economics
B.A., Ohio State University, 1968; J.D., American University, 1971; M.T.A., University of Akron, 1988
- RUTH STAUFFER, Assistant Professor
Health and Physical Education
B.S., Slippery Rock, 1997; M.S., American University, 1999; Ph.D.; University of Pittsburgh, 2006
- CRAIG W. STEELE, Professor
Biology and Health Services
B.S., The Pennsylvania State University, 1976; M.S., Ph.D., Texas A & M University, 1978, 1986
- CATHERINE E. STILLER, Assistant Professor
Nursing
B.S., M.S.N., Edinboro University of Pennsylvania, 1985, 1992 Ph.D., Case Western Reserve University, 2006
- ERIC STRAFFIN, Professor
Geosciences
B.S., Clarion University of Pennsylvania, 1990; M.S., Northern Arizona University, 1993; Ph.D., University of Nebraska, 2000
- NICHOLAS G. STUPIANSKY, Professor
Elementary, Middle and Secondary Education
B.S., M.A., Allegheny College, 1975, 1976; Ph.D., Indiana University, 1984
- STEVEN J. SULLIVAN, Assistant Professor
Philosophy
B.A., U. of Toronto, 1979; Ph.D., Cornell, 1990
- MARC A. SYLVESTER II, Professor
Mathematics and Computer Science
B.A., California University of Pennsylvania, 1995; M.A., University of Pittsburgh, 1996; Ph.D., The University of Pittsburgh, 2001
- SHARON A. TAYLOR, Assistant Professor
English and Theatre Arts
B.A., Hiram College, 1977; M.F.A., Ohio University, 1980
- THERESA THEWES, Professor
Chemistry
B.S., University of Pittsburgh, 1979; M.S., Ph.D., Carnegie Mellon University, 1987
- TIMOTHY THOMPSON, Professor
Communication and Media Studies
B.A., M.A., Ph.D., Bowling Green State University, 1982, 1983, 1986
- NINA THUMSER, Associate Professor
Biology and Health Services
B.S., Virginia Polytechnical Institute and State U., 1982; M.S., Florida Inst. of Tech., 1985; Ph.D., U. of Wisconsin-Milwaukee, 1993
- LISA TONG, Assistant Professor
Professional Studies
B.S., M.Ed., Edinboro University 2001, 2004; D.Ed., Indiana University of Pennsylvania, 2009
- CHRISTINE L. TROUTMAN, Assistant Professor
Library
B.S., Edinboro State College, 1971; M.S.L.S., Clarion University of Pennsylvania, 1990; M.B.A., Gannon University, 1997
- DALE TSHUDY, Professor
Geosciences
B.S., University of Delaware, 1985; M.S., Ph.D., Kent State University, 1987, 1993
- DAVID TUCKER, Instructor
Mathematics and Computer Science
B.S., Edinboro University of Pennsylvania, 1988; M.S., American University, 1999
- LISA M. UNICO, Professor
Chemistry
B.A., Ph.D., Case Western Reserve University, 1985, 1992
- CRAIG T. VAN BELL, Professor
Biology and Health Services
B.S., Rensselaer Polytechnic Institute, 1972; M.S., College of Saint Rose, 1978; Ph.D., University of Iowa, 1982
- PETER VAN DEN HONERT, Professor
Music
B.S., Grinnell College, 1972; M.M., University of Illinois, 1973; D.M.A., University of Missouri-Kansas City, 1985
- MICHAEL J. VETERE JR., Assistant Professor
Professional Studies
B.S., Mansfield State College, 1972; M.A., Ball State University, 1976; Ed.D., University of Pittsburgh, 1986
- MICHELLE VITALI, Professor
Art
B.F.A., University of the Arts, 1983; M.F.A., New York Academy of Art, 1996
- SANDRAWAITE-STUPIANSKY, Professor
Early Childhood and Special Education
B.A., M.A., Allegheny College, 1976, 1977; Ph.D., Indiana University, 1987
- MAUREEN WALCAVICH, Associate Professor
Early Childhood and Special Education
B.S., University of Maryland, 1973; M.A., University of Alabama Birmingham, 1976; Ed.D., Indiana University of Pennsylvania, 1995
- TERRENCE L. WARBURTON, Professor
Communication and Media Studies
A.B., Brown University, 1969; Ph.D., University of Denver, 1984
- DAVID P. WARNER, Assistant Professor
Art
B.F.A., Roanoke College, 1975; M.F.A., University of Arizona, 1989
- WILLIAM R. WEBER, Professor
Elementary, Middle and Secondary Education
B.S., University of Utah, 1976; M.A., California State University-Chico, 1985; Ed.D., University of Virginia, 1988
- DIETRICH WEGNER, Assistant Professor
Art
B.F.A., Maryland Institute College of Art, 2001; M.F.A., Ohio State University, 2003
- CHARLOTTE WELLMAN, Assistant Professor
Art
B.A., Brown University, 1981; M.A., Ph.D., Stanford University, 1986, 1995
- AMY P. WESCHLER, Assistant Professor
Nursing
B.S.N., M.S.N., Edinboro University of Pennsylvania 1984, 1994; Ed.D., Nova Southeastern University of Florida, 2002
- RICHARD K. WHITE JR., Associate Professor
Mathematics and Computer Science
B.S., University of North Florida, 1991; M.S., Ph.D., University of Florida, 1994, 2001
- THOMAS R. WHITE, Assistant Professor
Nursing
B.S., M.S.N., Edinboro University of Pennsylvania, 1994, 1999; D.Ed., Indiana University Of Pennsylvania, 2006
- CATHERINE A. WHITLEY, Associate Professor
English and Theatre Arts
B.A., John Hopkins University, 1983; M.A., Ph.D., University of California-Irvine, 1986, 1992

LORALYN A. WHITNEY, Assistant Professor
Library
B.A., Denison University, 1975; M.A., Indiana University, 1977; M.S.L.S., Clarion University of Pennsylvania, 1984

JOHN P. WIDNER, Assistant Professor
Library
B.A., M.L.S., Indiana University, Bloomington, 1975, 1988

CATHLEEN WIERZBOWSKI, Assistant Professor
Nursing
B.S.N., Daemen College, 1994; M.S.N., D'Youville College, 1998; D.Ed., Indiana University of Pennsylvania, 2008

LEE WILLIAMS, Associate Professor
Sociology
B.S., University of Wisconsin, 1990; M.A., Ph.D., University of Tennessee, 1993, 1997

HOWARD A. WILSON, Assistant Professor
Communication and Media Studies
B.J., School of Journalism, University of Missouri at Columbia, 1976; M.A., Kent State University, 1995

SUZANNE WINTERBERGER, Professor
Art
A.A.S., B.F.A., Rochester Institute of Technology, 1975; M.F.A., Cranbrook Academy of Art, 1978

LEANNE M. WISTROM, Instructor
Music
B.M., M.M., Indiana University-Bloomington, 1975, 1977

MARY A. WOLF, Assistant Professor
Student Affairs
B.A., M.A., Duquesne University, 1983, 1984; M.A., Psy.D., Widener University, 1992, 1994

RENATA B. WOLYNEC, Professor
History and Anthropology
B.A., M.A., SUNY at Buffalo, 1969, 1970; Ph.D., Northwestern University, 1977

E. ERNEST WOOD, Professor
Political Science and Criminal Justice
B.A., Westminster College, 1963; M.A., Adelphi University, 1967; M.A., SUNY at Albany, 1968

D. ELLIOTT WREH-WILSON, Associate Professor
Philosophy
M.A., Boston College, 1981; Ph.D., Boston University, 1994

ANDREA WYMAN, Associate Professor
Library
B.S., Westminster College, 1978; M.S., Western Oregon U., 1979; M.L.I.S., U. of Wisconsin-Milwaukee, 1985; Ph.D., Union Institute and University, 1992

THEODORE E. YESHION, Associate Professor
Political Science and Criminal Justice
B.S., City University of New York, 1973; M.S., George Washington, 1975; Ph.D., University at Buffalo, 2006

JOHN F. ZIEGLER, Assistant Professor
Professional Studies
B.S., Mansfield University of PA, 1972, M.S., West Chester, University of PA 1976
M.S., St. Bonaventure University, 1987
D.Ed Indiana University of PA, 2000

ELLEN M. ZIMMER, Assistant Professor
Mathematics and Computer Science
B.S., M.S., Rochester Institute of Technology, 1987, 1990

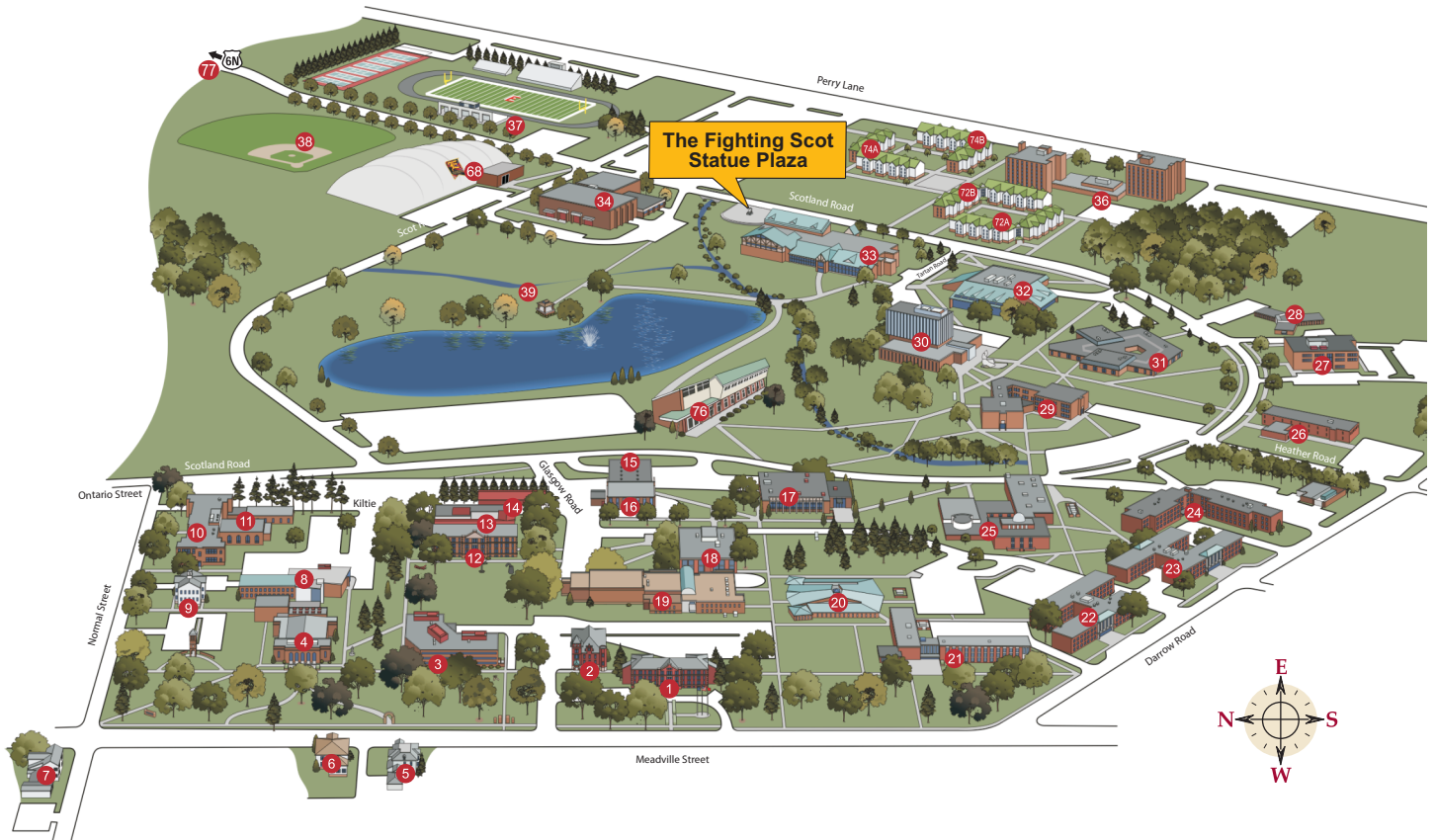
BRIAN ZIMMERMAN, Professor
Geosciences
B.S., Juniata College, 1983; M.S., Ohio State University, 1986; Ph.D., Washington State University, 1991

INDEX

Academic Advisement and Student Responsibility	30	Geosciences	194
Academic Advising	42	Health and Physical Education	197
Academic Affairs	30	History and Anthropology	200
Academic Load	36	Journalism	178
Academic Passport	37	Mathematics and Computer Science	209
Academic Probation and Suspension	34	Military Science	213
Academic Standards and Procedures	31	Music	214
Accreditation	1	Nursing	217
Adaptive Athletic Program	24	Organizational Studies	220
Adding a Course	36	Philosophy	220
Administration	7	Physics and Technology	222
Admission	12	Political Science and Criminal Justice	225
Anthropology (B.A.)	86	Psychology	230
Armed Forces Education Credits	38	Social Work	232
Art Department	52	Sociology	233
Art Education K-12 (B.S. in Art Ed.)	55	Speech, Language and Hearing	235
Art History (B.A.)	52	Criminal Justice (A.A.)	111
Associate Degree Programs	156	Criminal Justice (B.A.)	110
Athletics	24	Course Numbering	158
Auditing Undergraduate Courses	37	Courses Approved for General Education	49
Baron-Forness Library	44	Dean's List	39
Biology (B.A.)	56	Degree Completion - Time Involved	31
Biology (B.S.)	56	Dining Services	27
Biology and Health Services Department	55	Learning Technology Services	45
Broadcast Journalism: Radio/Television News (B.A.)	71	Dropping a Course	36
Business Administration (A.S.)	61	Dual Majors	31
Business Administration (B.S.)	62	Early Childhood (B.S. in Ed.)	122
(Accounting, Comprehensive Business, Financial Services, Forensic Accounting, Management Information Systems, Marketing)		Early Childhood and Special Education (B.S. in Ed.)	123
Business and Economics Department	61	Earth Sciences (B.A.)	79
Calendar	4	Economics (B.S.)	66
Campus Map	Inside Back Cover	Edinboro Success Program	42
Campus Life	24	Edinboro University in Erie - The Porreco Center	43
Center for Career Development	25	Edinboro University in Meadville – The Joseph T. Buba Center ..	43
Celebration of Excellence	40	Elementary, Middle and Secondary Education Department	123
Center for Outdoor Recreational Experience (CORE)	24	Emergency Loan Fund	20
Change of Major Procedure	35	Engineering - Cooperative Programs	105
Chemistry (B.A.)	70	English (B.A.)	74
Chemistry (B.S.)	67	English and Theatre Arts Department	74
Chemistry Department	67	Environmental Science-Biology (B.S.)	58
Chemistry/Forensic Sciences (B.S.)	68	Environmental Sciences-Geology (B.S.)	83
Chemistry/Industrial Biochemistry (B.S.)	69	Environmental Studies-Geography (B.A.)	81
Class Attendance Policy and Procedure	35	Exemption from Required Courses	34
Class Standing	33	Fees and Expenses	14
CLEP Examinations	39	F.E.R.P.A.	31
College Entrance Examination Board Advanced Placement	39	Financial Aid Programs	18
College of Arts and Sciences	52	Fine Arts (Fine Arts/Crafts, Applied Media Arts) (B.F.A.)	52
Commencement	41	Fitness Center	24
Communications Directory	9	Foreign Languages Department	76
Communication and Media Studies	71	Fresh Start	35
Commuting	26	General Education	48
Competency Examination Credit	39	Geography (B.A.)	80
Computer Science (A.S.)	88	Geology (B.S.)	82
Computer Science (B.S.)	91	Geosciences Department	78
Confidentiality and Privacy of Student Records	31	German (B.A.)	77
Counseling and Psychological Services	22	Governor George Leader Speech and Hearing Center	45
Course Descriptions by Department		Grade Appeal	32
Art	158	Grade Point Average (GPA)	33
Biology and Health Services	165	Grading System	31
Business and Economics	170	Graduation Requirements	40
Chemistry	174	Graduation Review	40
Communication and Media Studies	176	Grants	19
Early Childhood and Special Education	179	Greek Affairs	24
Elementary, Middle and Secondary Education	183	Greek Organizations	24
English and Theatre Arts	187	Harrisburg Internship Semester	156
Foreign Languages	191	Health and Physical Education (B.S. in HPE)	142
		(Health Promotion, Human Performance, Recreation Administration, Sports Administration, Teacher Certification)	

Health and Physical Education Department	142	President's Message	8
Health Services	21	Print Journalism: News-Editorial (B.A.)	72
History (B.A.)	85	Programs of the University (listing)	5
History and Anthropology Department	84	Psychology (B.A.)	112
Honors at Graduation	40	Psychology Department	112
Humanities (B.A.)	102	Public Relations Journalism (B.A.)	73
Humanities/English (B.A.)	76	Reading Clinic	45
Humanities/Foreign Language (B.A.)	77	Refund Policy	17
Human Services-Developmental Disabilities Specialist (A.A.) ...	120	Reinstatement	34
Human Services-Social Services (A.A.)	116	Repeating Courses	34
Identification Cards	26	Residence Halls Facilities	25
Independent Study	36	Satisfactory Academic Progress	18
Individualized Studies (B.A.)	147	Satisfactory/Unsatisfactory Grading System	32
Industrial and Trades Leadership (B.S.)	107	Scholarships	20
International Admissions	14	School of Education	118
International Student Services	26	Second Baccalaureate Degree	41
Internship Program	42	Simultaneous Degrees	31
Liberal Studies (A.A.)	102	Social Equity and University Ombudsperson	1
Life Experience Credit	39	Social Science (B.A.)	147
Loans	20	Social Work (B.S.)	114
Mathematics (B.A.)	89	Social Work Department	114
Mathematics and Computer Science Department	88	Sociology (B.A.)	116
Mathematics with an Actuarial Concentration (B.A.)	90	Sociology Department	115
Manufacturing Engineering Technology (A.E.T.)	103	Spanish (B.A.)	78
Medical Technology (B.S.)	59	Special Students	12
Military Science Department (ROTC)	41	Speech and Hearing Sciences (B.A.)	117
Miller Educational Technology Center	45	Speech, Language and Hearing Department	117
Minor Programs	148	Student Affairs	21
Mission Statement	3	Student Appeal Procedure	32
Multicultural Affairs	26	Student Employment	21
Music (B.A.)	94	Student Government Association	22
Music Department	94	Student Health Services	21
Natural Sciences and Mathematics (B.A.)	146	Student Judicial Affairs	21
Non-Discrimination Statement	1	Student Organizations	22
Nuclear Medicine Technology (B.S.)	60	Student Teaching	119
Nursing (B.S.)	98	Teacher Certification Students	13
Nursing (B.S.N.)	99	Teacher Certification	119
Nursing Department	96	Technology and Communications	44
Nursing RN-BSN	99	Theatre Arts (B.A.)	74
Off-Campus Facilities	26	Transcripts	17
Office for Students with Disabilities	26	Transfer Credit and the Edinboro Student	35
Office of Adult Student Services	26	Transfer Students and Advanced Standing	38
Organizational Studies	101	Transfer with a Two-Year Degree	14
Parking On Campus	26	Tutoring	42
Performing Arts Series	43	Two-year Transfer (2 + 2 Agreements)	38
Philosophy (B.A.)	101	Undeclared Advising Program	42
Philosophy Department	101	University Center Information Desk	22
Physics (B.A.)	104	University Faculty	238
Physics and Technology Department	103	University Policy Manual	30
Plagiarism	34	Veterans' Education Benefits	38
Political Science (B.A.)	109	Vision Statement	35
Political Science and Criminal Justice Department	109	Visiting Student Program	35
Praxis Test Pass Rates	120	Volunteer Service	24
Pre-professional Programs	44	Weber, Dr. Robert C. Honors Program	43
Pre-professional Studies - Healing Arts (B.S.)	57	Withdrawal from Courses	36
Pre-professional Studies - Law (B.A.)	109	Withdrawal from all Courses	36
Pre-School Education (A.S.)	121	Women's Studies	87

EDINBORO UNIVERSITY



- | | | |
|--|-------------------------------------|--|
| 9 Academy Hall | 23 Earp Hall | 16 Maintenance Building |
| 8 Alexander Music Building | 13 East Hall | 34 McComb Fieldhouse |
| 6 Alumni House | 14 Garage | 26 McNeerney Hall |
| 30 Baron-Forness Library | 39 Gazebo | 31 Miller Hall |
| 7 Biggers House | 28 Ghering Health & Wellness Center | 5 President's Residence |
| 27 Butterfield Hall | 18 Hamilton Hall | 1 Reeder Hall |
| 21 Centennial Hall | 29 Hendricks Hall | 24 Rose Hall |
| 2 Diebold Center for the Performing Arts | 72A Highlands Residence Halls | 17 Ross Hall |
| 4 Cole Auditorium | 72B Highlands Residence Halls | 38 Softball Field |
| 10 Compton Hall | 74A Highlands Residence Halls | 37 Sox Harrison Stadium |
| 25 Cooper Hall | 74B Highlands Residence Halls | 33 Pogue Student Center |
| 19 Crawford Center | 76 Human Services Building | 77 Welcome Center and Police Station |
| 22 Dearborn Hall | 36 Lawrence Towers | 20 Wiley Arts and Sciences Center |
| 3 Doucette Hall | 11 Leader Speech & Hearing Center | 32 Van Houten Dining Hall |
| 15 Earley Hall | 12 Loveland Hall | 68 Zafirovski Sports & Recreation Center |



Edinboro University Admissions Office

Academy Hall • Edinboro, PA 16444

Phone: 814-732-2761 • Toll Free: 1-888-8GO-BORO (1-888-846-2676)

Fax: 814-732-2420 • Web: www.edinboro.edu • E-mail: eup_admissions@edinboro.edu

One of the 14 universities in Pennsylvania's State System of Higher Education