East Stroudsburg University

2012-2013

Undergraduate Catalog

East Stroudsburg University of Pennsylvania
A Member of the Pennsylvania State System of Higher Education

Content of this catalog reflects data as of May 13, 2012.

Policies are subject to change and will be reflected in a catalog revision available on the website, www.esu.edu.

2012-2013 Undergraduate Catalog

East Stroudsburg University
of Pennsylvania

200 Prospect St.
East Stroudsburg, PA 18301
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Academic Calendar

Academic Year 2012-2013

Fall 2012

Classes begin at 8 a.m.	Monday	August 27
Last day to withdraw from first quarter with no "N" grade	Wednesday	August 29
Last day to add to first quarter	Thursday	August 30
Last day to drop a class with no "N" grade	Saturday	September 1
Last day to add	Sunday	September 2
Labor Day- No classes	Monday	September 3
Last day to withdraw from first quarter	Friday	September 28
Columbus Day – No classes	Monday	October 8
SWITCH DAY – Monday schedule	Tuesday	October 9
First quarter ends	Tuesday	October 16
Second quarter begins	Wednesday	October 17
Last day to withdraw from second quarter with no "N" grade	Friday	October 19
Midterm grades due	Friday	October 19
Last day to add to second quarter	Saturday	October 20
Last day to withdraw	Friday	November 2
Last day to withdraw from second quarter	Monday	November 19
Thanksgiving break begins	Wednesday	November 21
Classes resume	Monday	November 26
Second quarter Ends	Friday	December 7
Fifteenth week begins	Monday	December 10
Semester ends at 10 p.m.	Friday	December 14
Commencement	Saturday	December 15

Tentative Winter Session 2013

Begin Date	Monday	December 17
End Date	Friday	January 25

Spring 2013

Classes begin at 8 a.m.	Monday	January 28
Last day to withdraw from third quarter with no "N" grade	Wednesday	January 30
Last day to add to third quarter	Thursday	January 31
Last day to drop a class with no "N" grade	Saturday	February 2
Last day to add	Sunday	February 3
Last day to withdraw from third quarter	Friday	March 1
Third quarter ends	Friday	March 15
Spring Break begins	Monday	March 18
Classes resume	Monday	March 25
Midterm grades due	Monday	March 25
Fourth quarter begins	Monday	March 25
Last day to withdraw from fourth quarter with no "N" grade	Wednesday	March 27
Last day to add to fourth quarter	Thursday	March 28
Last day to withdraw	Friday	April 12
Last day to withdraw from fourth quarter	Friday	April 26
Fourth quarter ends	Friday	May 10
Fifteenth week begins	Monday	May 13
Semester ends at 10 p.m.	Friday	May 17
Commencement	Saturday	May 18

Tentative Summer Sessions 2013

(subject to change by the university without notice)

Session 1

Memorial Day – no classes	Monday	May 27
Session 1 & 1A Begin	Tuesday	May 28
Last Day Session 1A	Friday	June 14
Session 1B Begins	Monday	June 17
Independence Day- no classes	Thursday	July 4
Sessions 1 and 1B End	Friday	July 5

Session 2

Sessions 2 and 2 A Begin	Monday	July 8
Session 2A Ends	Friday	July 26
Session 2B Begins	Monday	July 29
Sessions 2 & 2B End	Friday	August 16

Mission

Vision Statement

East Stroudsburg University of Pennsylvania will be the first choice for students seeking a comprehensive university with a small college climate distinguished by innovation and tradition where they will learn to serve, lead and succeed in a global society.

Mission Statement

East Stroudsburg University of Pennsylvania will provide:

- challenging and contemporary undergraduate and graduate curricula that engage and equip students to critically appraise and apply knowledge in their lives and chosen fields of study;
- a learning community that promotes diversity and views teaching as the university's primary focus;
- varied opportunities for student and faculty research, creative endeavors and involvement in public service; and
- leadership and service in the educational, cultural and economic development of the region.

Values Statement

We are committed to the principles of intellectual integrity, freedom of expression, the fair and equal treatment of all, good citizenship, environmental stewardship, and accountability for our actions and the resources entrusted to us.

Pennsylvania State System of Higher Education

East Stroudsburg University of Pennsylvania is a member of the Pennsylvania State System of Higher Education (PASSHE).

Now celebrating its 25th year, PASSHE comprises Pennsylvania's 14 public universities, with a combined enrollment of more than 120,000 making it the largest provider of higher education in the Commonwealth.

The 14 PASSHE universities offer degree and certificate programs in more than 120 areas of study. Approximately 405,000 PASSHE alumni live and work in Pennsylvania.

The 14 PASSHE universities are Bloomsburg, California, Cheyney, Clarion, East Stroudsburg, Edinboro, Indiana, Kutztown, Lock Haven, Mansfield, Millersville, Shippensburg, Slippery Rock and West Chester Universities of Pennsylvania.

General Information

The University

History of the University

East Stroudsburg University, a comprehensive university in northeastern Pennsylvania offering nearly 60 undergraduate and more than 30 graduate degrees and certification programs, is one of the 14 institutions in the Pennsylvania State System of Higher Education.

East Stroudsburg Normal School opened its doors on September 4, 1893.

A faculty of 15 greeted a group of 320 students who had entered the two-year programs in elementary and science education.

Although the Normal School was originally privately owned, ownership was transferred to the Commonwealth of Pennsylvania in 1920, and the name was changed to East Stroudsburg State Normal School.

In 1927, the right to confer the degrees of bachelor of science in education and bachelor of science in health education was granted, and the school's name then became the State Teachers College at East Stroudsburg.

In 1960, the college's name was changed to East Stroudsburg State College, reflecting the addition of liberal arts and science curricula.

In November 1982, the State System of Higher Education was authorized by Senate Bill 506.

The college officially became East Stroudsburg University on July 1, 1983.

The Campus

The university has 65 buildings located on approximately 256 acres in the East Stroudsburg Borough and in Smithfield Township.

Forty-six acres of the property in Smithfield Township are leased to University Properties Inc. (UPI) which has constructed 541 beds of student housing in six buildings on 43 acres, and to the Visiting Nurses Association which built a six-bed Hospice House on three acres.

The 65 buildings in East Stroudsburg Borough include academic facilities, a 1,000-seat dining hall, a student center, a fitness center, a recreation center, and eight residence halls (housing 2,400 students).

The eight residence halls include the addition of two new UPI residence halls, Hemlock Suites (157,000 sq. ft.) and Hawthorn Suites (173,000 sq. ft.). These new residence halls provide 969 beds and offerone full bath to every two students. They also provide the students with five suite-style options to choose from. The new residence halls are heated and air-conditioned using geothermal technology and have Wi-Fi available to all students

The Student Activity Association, Inc., owns Stony Acres, a 119-acre off-campus student recreation area near Marshalls Creek, that includes a lodge and a small lake.

The Campus and Academic Buildings

The newest academic building on campus is the newly renovated, 29,000-square-foot Monroe Hall, which will open in August 2012. Formerly a residence hall, the building contains two computer laboratories, four classrooms, a 68-seat stepped auditorium, and offices. The building will house the Speech-Language Pathology and Communication Studies departments.

The 130,600-square-foot Warren E. '55 and Sandra Hoeffner Science and Technology Center opened in August 2008. Along with a planetarium and observatory, it houses 17 teaching laboratories, nine research laboratories, a multi-use 200-seat auditorium, classrooms and offices.

Computing and Communication Services

The university Computing and Communications Center supports both administrative and academic computing. Administrative computing is served by a UNISYS mainframe, encompassing more than 30 online systems and providing services to the students, faculty and staff.

The academic computing network consists of 30 UNIX or Windows based servers that are connected to approximately 1,900 PCs provided to support instruction, Internet access, campus network access, and e-mail. They are located in 35 computer laboratories across campus. There is an open access computer lab in each residence hall.

Additionally, many academic departments maintain discipline-specific computer laboratories for their curricula. Wireless computing zones are located throughout the residence halls, University Center, library, Science and Technology building, and the outdoor campus quadrangle. Students can connect to the Internet in these areas using a standard wireless laptop. In addition, faculty and students use wireless laptop technology for conducting specialized labs in a variety of courses. Helpful computing information can be found at www.esu.edu/ac.

Additionally, the Office of Computing and Communication Services support faculty, administration, students, and affiliated businesses with services such as local and long distance telephone, voice mail, cable TV, and Internet. Requests for equipment such as cell phones, two-way radios, paging and other wireless solutions are provided through this office.

The McGarry Communication Center is the campus base for the Instructional Resources Department, including the audiovisual, graphics, and television services units. The Communication Center houses two television studios and is the distribution center of campus cable television as well as the community-wide ESU television telecasts. WESS 90.3 FM radio is also located in the Center.

Kemp Library

Kemp Library provides students with opportunities to acquire, process and apply information in pursuit of their academic and career goals. Library faculty and staff offer a wide variety of traditional and innovative services. While the library continues building and sharing its print collections, it also provides digital e-books and electronic course reserves. The library licenses a wide variety of full-text databases, most of which are accessible both on- and off-campus. Kemp Library also provides interlibrary loan and document delivery services to supplement its holdings.

Kemp Library is also a repository of federal and state (Pennsylvania) documents and includes an Instructional Materials/Educational Resources collection of textbooks, courses of study, children's and young adult literature and other materials in support of teacher education programs. Assistive technology is available in the library to make its resources fully accessible to differently abled students.

As Kemp Library takes full advantage of new products, new formats for information, and new delivery systems, its instructional role has never been more pronounced. The most effective approach to a research project changes from year to year, or even semester to semester. To keep current, students and faculty are invited to take full advantage of the library's reference services, to participate in group instruction offered by its public services librarians, and to check the library Web site, www.esu.edu/library, to see what changes have been made.

Faculty and Staff

The university faculty totals 357, while another 486 employees make up the management and non-instructional staff.

Faculty members are representative of many and varied institutions of higher education in both the United States and abroad. The terminal degree is held by 88 percent of the full-time instructional faculty.

Accreditation

East Stroudsburg University is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market St., 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 Education.

Accreditations awarded to academic programs include:

- All education programs offered by East Stroudsburg University are accredited by the National Council for Accreditation of Teacher Education and approved by the Pennsylvania Department of Education.
- The Athletic Training degree program is accredited by the Commission on Accreditation of Allied Health Education Programs in collaboration with the National Athletic Trainers Association.
- The Computer Science program is accredited by the Board of Engineering and Technology (ABET)
- The Nursing degree program is accredited by the National League for Nursing Accrediting Commission. In addition, the program is approved by the Pennsylvania State Board of Nursing.
- The Recreation and Leisure Services Management degree program is accredited by the National Recreation and Park Association, a specialized accrediting agency recognized by the Commission on Recognition of Postsecondary Accreditation.
- The Public Health degree program is accredited by the Council on Education For Public Health .
- The Speech-Language Pathology degree program is accredited by the Council of Academic Accreditation of the American Speech-Language-Hearing Association.
- The Exercise Science degree program is accredited by Commission on Accreditation of Allied Health Education Programs.
- The Hotel, Restaurant & Tourism degree program is accredited by Accreditation Commission for Programs in Hospitality Administration.

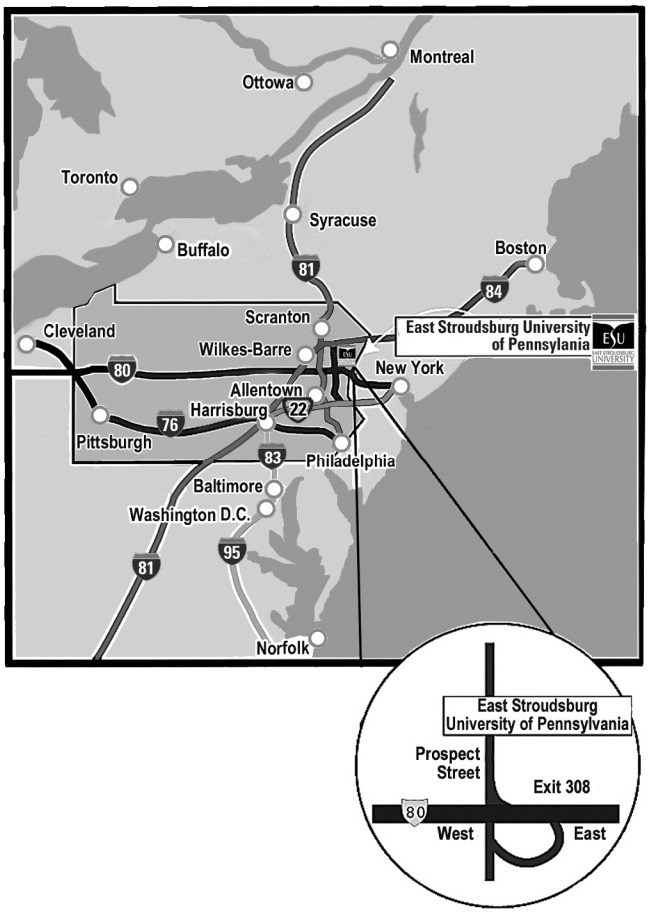
Location

East Stroudsburg University of Pennsylvania is nestled in the foothills of the Pocono Mountains. The combination of quiet woodlands, mountain streams, and refreshing clean air has made the Poconos famous as a resort area for more than 100 years.

Because of the university's location in the Poconos, students take advantage of the many scenic, historic, and recreational sites, including the Delaware Water Gap National Recreation Area, Bushkill Falls, and the Pocono ski areas. Others have found that the resorts and restaurants offer an excellent opportunity for employment. In addition, the area offers fine restaurants, high-quality entertainment, and excellent shopping. Situated on a hill facing Prospect Street in the community of East Stroudsburg, the university is characterized by large areas of grassy expanses comfortably shaded by a variety of towering trees.

The campus is located approximately 75 miles west of New York City and Newark, 85 miles northeast of Philadelphia, 40 miles southeast of the Wilkes-Barre/Scranton area, and 40 miles northeast of the Allentown/Bethlehem/Easton area. Students and faculty alike enjoy the opportunities and advantages of visits to the metropolitan areas.

The university, which is located approximately one-quarter mile from the East Stroudsburg exit of Interstate 80, exit 308, is within easy reach of major highway systems and commercial air services.



Admission

Freshmen Applicants

Who is a freshmen applicant?

Students who have not attended any post secondary institution after high school graduation are considered freshmen applicants. If a student was enrolled in college courses while in high school he/she is still a freshmen applicant.

When to Apply

Prospective freshmen can apply starting July 2012 to be reviewed for the spring or fall 2013 semesters. Applications are only available online at www.esu.edu/apply.

Deadline for Applying

Spring 2013 Semester.....November 15, 2012
Fall 2013 Semester.....April 1, 2013

Application and Review Process

For an admission decision to be made the following must be submitted:

- A complete online application
- Application fee ($45) paid online
- An official high school transcript
- SAT and/or ACT test results

Please do not submit essays or personal statements as they will not be considered in the admission decision process.

Academic achievement is the only factor considered in the selection process, through high school transcripts and standardized test results. Competitive applicants will have at least a "B/3.0" average in a solid college preparatory curriculum. It is expected that successful applicants will have:

- 4 years of English
- 4 years of Math (algebra 1 and 2, geometry, a senior-year college-prep math course)
- 3 years of science (with at least two lab science courses)
- 3 years of social studies
- 2 years of a foreign language

Notification of Admission

- Students will receive communication via the email address provided on the application throughout the admission process.
- Please be sure to keep your address updated with us and check your inbox and spam often.
- Applications are reviewed on a rolling basis beginning in September. A letter and email will be sent for any decision made.
- All applicants are encouraged to continue to submit additional academic information (new test scores and/or updated senior year grades) if a decision has not been made.
- Applicants applying to our more competitive programs (Nursing, Speech Language Pathology and Computer Science) however, may not be notified until January. This process allows the Office of Admission to review each applicant in comparison with all others and determine the appropriate candidates for these limited enrolled programs.

Admission Presentations, Open House, Tours

Admission presentations and campus tours are available during the fall, spring, and summer semesters. Open Houses will be held on the following Saturdays: October 13, October 27, and November 10. For more information or to register for these events please visit www.esu.edu/visit.

Transfer Applicants

Who is a transfer applicant?

Students who have attended any post secondary institution after high school graduation are considered transfer applicants. If a student was enrolled in college courses while in high school he/she is still a freshmen applicant.

When to Apply

Prospective transfers can apply starting July 2012 to be reviewed for the spring or fall 2013 semesters. Applications are only available online at www.esu.edu/apply.

Deadline for Applying

Spring 2013 Semester.....November 15, 2012

Fall 2013 Semester.....May 1, 2013

Application and Review Process

For an admission decision to be made the following must be submitted:

- A complete online application
- Application fee ($45) paid online
- Official transcripts from all colleges and universities attended, listing those courses in progress as well
- Official high school transcripts (required for all transfer students entering ESU without an associate or bachelor degree)
- Students will receive a conditional decision until a final transcript is received. (Fall applicants must submit final spring grades and Spring applicants must submit final fall grades.)

Students will receive a conditional decision until a final transcript is received. (Fall applicants must submit final spring grades and Spring applicants must submit final fall grades.)

Notification of Admission

- Students will receive communication via the email address provided on the application throughout the admission process.
- Please be sure to keep your address updated with us and check your inbox and spam often.
- Applications are reviewed on a rolling basis beginning in September. A letter and email will be sent for any decision made.
- Applicants applying to our more competitive programs however, may not be notified until late November for spring and late April for fall. This process allows additional review time to determine

the appropriate candidates for the limited seats in these programs.

Transfer Admission Criteria

Applicants with 24 or more credits: Transfer student admission requires a minimum of 24 college level credits, excluding remedial/developmental coursework, with a minimum cumulative 2.00 QPA on a 4.00 scale.

Applicants with less than 24 college-level credits: Applicants with less than 24 college-level credits, excluding remedial/developmental coursework, earned at the time of application will be evaluated using a combination of official college-level credits, high school records, and SAT/ACT scores.

The following programs have higher admission criteria:

- Computer Science
- Computer Security
- Hotel, Restaurant, & Tourism Management
- Nursing
- Recreation & Leisure Services Management
- Rehabilitative Services
- Sport Management
- Teacher Education Certification

A combined QPA: Quality Point Average is calculated for students who have earned credits at multiple institutions.

Academic Passport

Students holding the Academic Passport from Pennsylvania community colleges, Lackawanna College, or other state system universities will transfer credit according to the Board of Governors Academic Passport and Student Transfer Policy. Further information may be obtained from the Office of Admission, or by visiting www.passhe.edu.

Pennsylvania Transfer Articulation Center

History: In July 2006, the Pennsylvania Department of Education (PDE) began implementation of Article XX-C of the Public Institution Code of 1949. Intended to create a seamless statewide transfer and articulation system, this legislation requires Pennsylvania's 14 community colleges and the 14 universities in the Pennsylvania State System of Higher Education (PASSHE) to adopt mandatory equivalency standards for the purpose of creating at least 30 hours of foundation courses that can be easily transferred to any of the participating institutions and to establish an electronic portal for providing public access to transfer information.

Voluntary participation by private colleges and universities is allowed under the law. State-related institutions also may voluntarily participate in this statewide transfer system.

Transfer of Credit Without Academic Passport

Only credits for courses with grades "C" or better will be considered for transfer credit.

Students may transfer credit from institutions that have been accredited by:

- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Association of Schools and Colleges
- Southern Association of Colleges and Schools, Inc.
- Western Association of Schools and Colleges
- Accrediting Commission for Community and Junior Colleges
- Accrediting Commission for Senior College and Universities

Credits from either non-accredited institutions, foreign institutions, or institutions not accredited by the above may be accepted upon approval of a department within which the course or courses reside and by the academic dean.

Transfer Credit Evaluation

Accepted students receive a Transfer Credit Evaluation (TCE). The "TCE" will indicate all cousework that is transferable to ESU and will also indicate the transfer equivalent at ESU. Credit not previously evaluated (pending review) will be reviewed by Center of Enrollment Services. The evaluator will review pending credit, determine the transfer equivalent, update the student record and notify the applicant. Transferable credits are officially added to a student's ESU account upon receipt of the official final college/university transcript and upon verification of enrollment (completed course registration).

How to Read the Transfer Equivalency Page:

1. Course number from sending institution.
2. Course title
   a. If there is an exact course match, the title will reflect the ESU course.
   b. If there is no exact match, but the course transfers as an elective, the original course title will be retained.
3. Credit hours awarded in transfer.
4. ESU course number.
   a. With an exact match, the course number will be the ESU equivalent.
   b. 199: General Education elective [no exact match], but suitable for General Education requirements in specified ESU department.
   c. 299 and 399: Departmental elective [no exact match], ESU academic department decides if/how the course is applied towards the major.
   d. "ELEC 299": Course that does not fit either General Education or major requirements, but credits will transfer as electives.

Note: Coursework and institutions not listed are being evaluated for transfer credit by the Center for Enrollment Services.

Transfer Credit Appeal Process

Students may appeal transfer credit evaluations by contacting the Center for Enrollment Services (CES); Associate Registrar. The appeal process will encompass a re-evaluation of coursework by the CES. Students who appeal an equivalency are asked to submit a course syllabus, which provides more detailed information than a catalog listing. Students not satisfied with the final transfer credit evaluation may appeal the decision to the chairperson of the academic department relevant to the course/s in question. Full and final discretion rests with the academic departments.

Final Transfer of Credits

Transferable credits are officially added to a student's East Stroudsburg University record upon receipt of the final college/university transcript and upon verification of enrollment (completed course registration) through the Center for Enrollment Services.

Undergraduate Readmission Policy

Undergraduate students who are in good academic standing may decide prior to the beginning of a semester to take a semester off for personal reasons (financial problems, family or health issues, etc.). These students intend to re-enroll at ESU and will not study at another institution during this time off.

Students planning to study or intern abroad or through the National Student Exchange should schedule an appointment with the Director of the International Study Program.

Readmit applications can be found at www.esu.edu/apply.

Non-degree Students

A non-degree student is one who is permitted to take courses at the university but is not admitted to the university or to any degree program. Typically, non-degree students are those who wish to take courses for personal enrichment or to improve their academic standing prior to gaining admission as a degree student.

Others who may be considered for non-matriculating status are:

1. students enrolled in degree programs at other universities who wish to earn credit to transfer to their home institution;
2. applicants who have been denied admission as degree-seeking students and who wish to improve their academic standing;
3. eligible senior citizens (see below); and
4. high school students who wish to enroll for courses while attending high school.

Contact the Office of Admission at 570-422-3542 for details. Non-degree applications can be found at www.esu.edu/apply.

Senior Citizens

Pennsylvania residents who are retired may enroll as non-degree students (see above). Course registration is on space-available basis. Fees will be charged. Applications can be found at www.esu.edu/apply. For financial questions contact the Center for Enrollment Services at 570-422-2800.

International Students

Who is an International Applicant?

Persons who are not United States citizens or permanent resident aliens must apply using the online international student application, either freshmen or transfer. Students who have attended any post secondary institution after high school graduation are considered transfer applicants.

When to Apply

Prospective international students can apply starting summer 2012. Applications are only available online at www.esu.edu/apply.

Deadline for Applying

Spring 2013 Semester.....November 1, 2012 (limited to students already physically present in the U.S.)

Fall 2013 Semester.....March 1, 2013

Application and Review Process

For an admission decision to be made the following must be submitted:

1. Completed application along with Summary of Educational Experiences Form.
2. $50 application fee by electronic check or credit card.
3. Completed Financial Disclosure Form with supporting documentation such as bank statements, tax documents, etc.
4. Sponsor's Statement of Support.
5. All secondary and post secondary academic records, including official evaluations from an agency that is an approved member of the National Association of Credential Evaluations Services.
6. Results of the Test of English as a Foreign Language (TOEFL) or International English Language Testing system - *Not required if English is the student's native or primary language.*
7. Completed Promise to Room and Board Form if anyone will be providing room and board while the student is at ESU.

Notification of Admission

Applications are reviewed beginning in November for spring and mid-February for fall. Applicants should apply early so that information necessary for preparation of his/her visa can be secured and processed. Applicants can check their application status at **www.esu.edu/appstatus**

Academic Regulations

Additional information on Academic Regulations is available in the Student Handbook

Attendance

Each professor will determine a class attendance policy for each course. The professor must notify students of the class attendance policy at the start of the semester and a copy of the policy must be kept on file in the department office. Class attendance may impact a student's course grade per the stated attendance policy. Excused absences, including absences for participation in approved university events, will not result in a penalty, provided that the student makes up missed work as required by the professor. In case of an extended absence during a semester (e.g., health or medical issues, family concerns, etc.), the student or a designee is encouraged to notify the Registrar in the Center for Enrollment Services who will notify the student's instructors.

Undergraduate Catalog Policy

(As applicable for Academic Programs/Majors/Minors)

An undergraduate student is subject to the academic requirements and regulations contained in the catalog for their program in effect during the semester in which the student is first registered as a matriculated student. The only exceptions to this policy are stated below:

1. A student who first attends the university during the summer will be subject to the requirements and regulations in effect for the following academic year.
2. A student who declares or changes a major or other academic program (minor, concentration) after matriculation is subject to the program requirements as outlined in the catalog in effect at the time of declaration.
3. A student may choose to follow all regulations and academic program requirements in effect in the current catalog. It is the student's responsibility to complete a "Change of Catalog" card, obtain the required signature and submit the card to the Center for Enrollment Services.
4. A student who discontinues attendance for two or more consecutive semesters (fall/spring or spring/fall) will be subject to the regulations and program requirements in effect when the student re-enters the university. **This includes students who are dismissed from the university for academic or disciplinary reasons. The only exception to the rule is the students who are granted a Guaranteed Readmission according to the condition of the policy.**
5. Some programs are subject to requirements that originate with legal and governing authorities outside the university (for example, requirements for teacher and other professional certifications). Such requirements are sometimes subject to change for all participants on a specific date and do not lend themselves to implementation by catalog year.
6. Some academic departments place time restrictions on the completion of major courses and/or major requirements. Such restrictions are clearly articulated in the university catalog and take priority over this policy.

Please note: Occasionally the university will adopt or revise a regulation (other than an academic program requirement) that cannot equitably or administratively be implemented by catalog year. In those cases all students shall be advised of the change at least one full semester in advance and through several venues before the change goes into effect.

Program Changes

A student may change curriculum or field of study of specialization only with the approval of the student's adviser and the director of the curriculum or the chair of the department the student wishes to enter. The student's quality grade point average and the reasons for change will be assessed by the chair of the department into which the student is transferring.

Changes in program should be requested only after careful counseling and planning. All such changes require the completion of a "Change of Major" card that is available at the Center for Enrollment Services. Changes to major/minors meant that the student is to follow the catalog requirements for that program based on the year of change.

Specific professional programs, such as nursing and medical technology, are limited in the number of students who can be accommodated. Students planning to enter these fields should contact the appropriate department.

Registration for Semesters/Sessions

Registration is the method of ensuring continuous matriculation in an academic program. Students register for courses each semester for a subsequent semester. That is, registration for fall takes place in March, registration for spring takes place in November and registration for summer sessions usually takes place in February. A student's course schedule should be regarded as a contract and determines official enrollment. A full-time undergraduate student credit load for a regular semester is 12-18 credits. Special permission is needed for students registering for above 18 credits. Additional fees will apply.

Changes to Enrollment/Class Schedule

Courses may be added during the first seven calendar days for spring and fall semester through the student portal myESU.

Courses may be dropped (no record on academic transcripts) during the first six calendar days of the semester for spring and fall semesters through the student portal myESU.

Students who withdraw from a course beginning day seven through week 10 will receive a grade of "W" for that course on the student's permanent record. Instructor permission may be required to withdraw from a course.

After the 10th week the student may withdraw only if there are extraordinary circumstances (e.g. illness, death in the family, etc.). In this situation the student must also secure the appropriate dean's signature and submit it to the Center for Enrollment Services. A grade of "W" will be assigned if the student is passing; "Z" will be assigned if the student is failing.

Any student who discontinues attendance in a course without formally withdrawing will be assigned an "E" as a final grade. Through the class roster verification process, a student who has not attended a course during the first week (first five class days of the semester or first two days of summer main session) may be dropped from the course by the instructor.

A student may withdraw ("W" or "Z") from a maximum of 16 credits during the student's stay at the university. Any course dropped during the first week of the semester, for which no grade is assigned, will not be counted toward this limit, nor will "Ws" received for a total semester withdrawal from the university.

A student attending a course without proper registration and payment of all tuition and fees does not constitute de facto enrollment. The university will not permit retroactive enrollment in or payment for any class after the end of the term in which the course is offered.

Type of Action	Semester	Quarter	Summer Session 3 weeks	Summer Session 6 weeks
No record on academic transcript	Day 6	First 3 days	1st day	2 days
Grade of W	Day 7	4th day through 5th week	2nd day through 2nd week	3rd day through 4th week
No withdrawal *	11th through 15th week	6th through 7 1/2 week	3rd week	5th through 6th week

* Except for extraordinary circumstances as previously defined.

Auditing Courses

A student desiring to audit a course must submit an official request to the Center for Enrollment Services after securing the approval of the professor of the course. A change of registration from credit to audit or from audit to credit may occur only during the first seven calendar days of the semester. Auditing students pay the same tuition and fees as students taking courses for credit.

Please note: Senior citizens registering for courses under the special student status will automatically be assigned an audit grade.

Undergraduate Students Taking Graduate Courses

ESU undergraduate students may take a maximum of six graduate credits during their senior year if the following criteria are met:

1. Satisfaction of the grade point requirements for admission with full graduate standing, i.e. 3.000 GPA in the major and 2.5000 GPA overall (may be higher for some majors);
2. Verification of senior class status (completion of 90 credits);
3. Approval by the appropriate faculty member teaching the class;
4. Approval of the dean of the Graduate College. This must be submitted to the Center for Enrollment Services.

All appropriate signatures must be secured prior to registering. Graduate credit that is used to satisfy graduation requirements for the bachelor's degree cannot be used to satisfy the requirements of a master's degree at ESU.

Grades

Grades are the method of assessing student progress. Students are issued grades at mid-semester and a final grade at the end of the semester.

Grade Reports

Student grade reports are available at mid-semester and at the end of the semester. Only the semester grades are entered on the student's permanent records (transcript). Semester grade reports are available through the student portal myESU. Specific information about access to the student portal is mailed to each student upon his or her initial enrollment at East Stroudsburg University.

It is the responsibility of each student to check grade reports at mid-semester and at the end of the semester. Students are expected to check grade reports as they are available to be aware of academic performance in each course, to register for courses for the next semester, and to address issues related to course grades immediately. Grade reports are an important tool for assessing academic progress.

Quality Point System

In addition to meeting course and semester hour requirements for graduation, students must maintain a specified academic level throughout a given curriculum as measured by quality points. The minimum number of quality points required for graduation is twice the number of semester hours of credit attempted. Pass/fail courses are not used in the computation of the quality point average. Work completed at other colleges and accepted as transfer credit is not considered in computing the quality point average. The required quality point average for graduation is 2.000 or higher. Some degree programs require a higher cumulative quality point average.

Each semester hour grade is calculated as follows:

A	4.000 quality points
A-	3.667 quality points
B+	3.333 quality points
B	3.000 quality points
B-	2.667 quality points
C+	2.333 quality points
C	2.000 quality points
C-	1.667 quality points
D	1.000 quality points
E	0 quality points

Calculating Grade Point Average

Calculating of grade point average is done using the steps below.

1. Grade symbols are translated into quality points per semester hour of credit as listed above.
2. The university recognizes that a good grade in a three-semester-hour course requires more work than in a two-semester-hour course. Owing to this, the university follows a system which recognizes both the quality and quantity of a student's work. Under this system, the number of quality points for each letter grade (e.g. four points for an A) is multiplied by the number of semester hours of credit for the course.
3. Quality points are awarded only for work completed at East Stroudsburg University. Work completed at other colleges and accepted as transfer credit is not considered in computing the quality point average.

Incompletes

The maximum time for completing course requirements to remove incomplete grades is one year from the end of the session in which

the "I" grade was assigned. After that time, the "I" grade will automatically be converted by the Registrar to an E, F, or U based on the grade mode for the course. The student can then only earn credits for the course by registering for it again in another semester.

If a student applies for graduation in a session before the one-year period has expired, the course requirements must be completed by the end of that session, or the "I" grade will be converted by the Registrar to an E, F, or U based on the grade mode for the course. A faculty member who chooses to deviate from this policy will require the student to sign a contract specifying conditions necessary for course completion, which may include a time period for completion of less than one year or other conditions.

Repeat Grades

Undergraduate students will be limited to a maximum total of six repeats during their enrollment at East Stroudsburg University. This is an individual course count (not credit). Students cannot repeat more than six courses.

A single course can only be taken a maximum of three times. That is, the course should appear no more than three times on a transcript. The most recent grade, regardless of whether it is higher or lower, will be the grade used for the GPA calculation. All other grades earned for repeated courses will be marked as such on the student's academic transcript.

Developmental Education Courses

The Course Repeat Policy limit will not apply to Developmental Education courses such as MATH 090 and ENGL 090. However, the most recent grade will be the grade used for assessing academic progress for both the semester and overall calculations. Credits earned will count towards Class Standing (Classification Level). Credits and grades will appear on transcript but credits will not count towards the minimum number of credits required for graduation.

Academic Standing (Scholarship)

Academic Good Standing

A student at East Stroudsburg University must achieve a minimum cumulative grade point average (CGPA) of 2.000 to maintain satisfactory academic standing.

Academic Warning

Regular matriculated students who are below the 2.000 QPA will be placed on academic warning. While on academic warning the student may not register for more than 13 credits in any semester or enroll in off-campus internships.

Academic Probation

Regular matriculated students who are on academic warning and do not raise their CGPA to 2.000 after one semester will be placed on academic probation and will be granted one semester to raise the CGPA to the required level. While on academic probation, the student may not register for more than 13 credits. Furthermore, students on academic probation are not eligible to compete or practice in intercollegiate athletics and may not enroll in off-campus internships.

Academic Suspension

Students who are on academic probation and who fail to raise their CGPA to the required level and who have a GPA of less than 2.200 for the semester on probation will be suspended from the university for a period of one calendar year. At the end of that year, the student will be eligible for readmission in Academic Probation [2] status. Academic suspension is not subject to appeal. The student will be allowed to register for no more than six credits per semester during the suspension year.

Academic Dismissal

Students returning from academic suspension who fail to maintain a GPA of 2.200 or better each semester until their cumulative GPA has risen to the required level will be dismissed from the university for academic failure. At this time, they have the right to appeal to the Admissions Appeals Committee.

Appeal Process for Academic Dismissal

A student who has been dismissed from the university for academic failure may appeal the dismissal by submitting a letter to the Appeals Committee. This letter must include why the student was unsuccessful in previous academic experiences and why he/she feels that future academic endeavors will be successful. The committee will review the letter, review the academic record, and conduct an interview with the student, and then either uphold the dismissal or approve a reinstatement under stipulated conditions.

Effect on Transfer Students

Transfer credits will not be counted in determining academic jeopardy for a transfer student's first semester on campus. That is, transfer students will not be in academic jeopardy following their first semester on campus unless their grade point average is below 2.000.

Transfer Credit Evaluation

Continuing Students Transferring Credits Back to East Stroudsburg University

Current East Stroudsburg University students who desire to transfer courses from another college or university back to ESU must secure the approval of their academic adviser, or the department chairperson where the external credits would transfer, prior to registering at the other college/university. Approvals must be submitted to the Center for Enrollment Services. Transfer credit is only granted if a grade of at least "C" is earned and on receipt of an official transcript from the other college/university.

PA TRAC Transfer Credit Framework

The courses listed in the Transfer Credit Framework as established by the Pennsylvania Transfer and Articulation Center represent the type of coursework that is generally completed during the first and second year of a four-year degree program. Completing courses in these categories is a good choice for students who are undecided about the major they wish to pursue or the institution where they plan to transfer.

The Transfer Credit Framework allows students to transfer up to 30 credits of foundation courses from any of the participating colleges and universities to ESU and have those courses count toward graduation. The framework includes courses in English, public speaking, math, science, art, humanities, history, and the behavioral and social sciences.

The Transfer Credit Framework is not intended to represent the full set of general education courses required for a degree but is an excellent advising tool for students who begin classes without a clear

sense of their future educational plans. More information on the PA TRAC Transfer Credit Framework can be obtained at www.patrac.org.

Advanced Placement

East Stroudsburg University permits students to earn credit toward the baccalaureate degree by successful completion of the Advanced Placement Examination. Students currently enrolled in high school should contact their guidance counselor about the AP Exam. A grade of "3"or higher on any of these examinations will be counted for three semester hours by East Stroudsburg University. Please refer to www.esu.edu for more information about getting credit for courses through AP testing.

College-Level Examination Program

The College-Level Examination Program (CLEP) of the College Board enables students to earn college credit by examination. The General Examinations of CLEP (English Composition, Humanities, Mathematics, Natural Sciences and Social Sciences-History) may be taken to apply toward the General Education pattern of courses at East Stroudsburg University. Such examinations must be passed at the 50th percentile.

The following limit shall be applied to the number of credits which may be earned in General Examinations:

English Composition	3 credits
Humanities	6 credits
Mathematics	3 credits
Natural Sciences	6 credits
Social Sciences – History	6 credits
Total	**24 credits**

Subject matter examinations may also be taken under the CLEP program. These examinations must also be passed at the 50th percentile. Students shall not be given credit for both General and Subject examinations in the same areas. Normally CLEP examinations may not be counted toward the student's major field of study. Interested students should contact the College Entrance Examination Board. Official CLEP results should be forwarded to the Center for Enrollment Services for consideration.

PASSHE Visiting Student Program

The purpose of this policy is to facilitate undergraduate student enrollment at institutions of the Pennsylvania State System of Higher Education to take advantage of courses available across the system, without loss of institutional residency, eligibility for honors or athletics, or credits toward graduation at the home institution. Grades earned under the Visiting Student Program will be accepted in full by East Stroudsburg University, and will be included in the calculation of credits earned, GPA, and residency requirements.

The following requirements and conditions apply to participants in the Visiting Students Program:

1. The student must be matriculated at the home university with a minimum of 12 college-level credits and be in good academic standing.
2. Students may take a maximum of 24 credits via the Visiting Student Policy.
3. The student who presents evidence of good standing at the home university will be allowed to register for courses at other PASSHE universities. The visiting student priority level for registration will be determined by each university.
4. All credits and grades accrued at other PASSHE universities shall be accepted in full by the home university and thereafter treated as home university credits, residency, and grades.
   a. It is the responsibility of the student to work with the student's adviser at the home institution regarding applicability of credits towards graduation requirements at the home institution consistent with PASSHE procedures.
   b. It is the responsibility of the student to complete the Visiting Student Notification Form and submit to the home institution prior to enrolling in courses at another PASSHE institution.
   c. Students cannot use the Visiting Student Program to repeat courses.
   d. Students cannot use the Visiting Student Program for internship or practica that are required for licensure or certification without the express written permission of their appropriate university officials at the home university and placement availability at the requested institution.
5. The student shall register at, and pay tuition and fees to, the state system university visited. A student wishing to divide a course load between two institutions during the same term shall register and pay appropriate tuition and fees at both universities.

Class Standing/Classification Level

Class designation is determined by the number of semester hours of work which the student has satisfactorily completed in accordance with the following:

Semester Hours Completed	**Class**
0-29.9	Freshman
30-59.9	Sophomore
60-89.9	Junior
90 and over	Senior

Graduation

A student at East Stroudsburg University must earn a minimum grade point average of 2.000 in order to graduate (individual departments may, however, stipulate higher graduation requirements), complete the general education requirements and competencies requirements, and file an intent to graduate form. Intent to graduate forms can be obtained in the Center for Enrollment Services. Deadlines for applying for graduation are November 1 for May graduation, and April 1 for August and December graduation. The university holds two commencement exercises during the academic year, one at the end of the fall semester and one at the end of the spring semester. Students graduating in August may participate in the December ceremony.

Graduation Honors

In order to qualify for graduation honors, (the only honors other than the University Leadership Award to be announced at commencement exercises), a student must have completed at East Stroudsburg University 60 credits in which the letter grades of A, A-, B+, B, B-, C+, C, C-, D or E are assigned. Students who have the appropriate grade point average at the time the honor's designation is determined, and

who will have met the 60-credit minimum once the final semester is completed, will be granted graduation honors as follows:

Summa Cum Laude	Cumulative quality point average 3.800 or above
Magna Cum Laude	Cumulative quality point average 3.600 to 3.799
*Cum Laud*e	Cumulative quality point average 3.400 to 3.599

Graduation honors are based on all work completed at East Stroudsburg University by March 15 of the academic year for May commencement, and by Nov. 1 for Dec. commencement. The official university transcript will carry the appropriate honors designation based on all work completed at the university.

Graduation Residency Requirement

All first baccalaureate degree students will take at least 30 of their last 45 credits at East Stroudsburg University. At least 50% of major requirements must be complete at a Pennsylvania State System of Higher Education university.

Active Duty Service Members Exception

For active duty service members, the academic residency requirement will not exceed 25% of the undergraduate degree program. If the undergraduate degree is available 100 percent online, the academic residency requirements will not exceed 30% of the undergraduate degree program.

With the exception of specific course areas such as majors, the academic residency requirements for active duty service members will not include "final year" or "final semester" requirements. In addition, each program is expected to confirm with their respective accrediting agencies the allowable flexibility in order to meet the needs of active duty service members.

Simultaneous Dual Degrees

Students wishing to earn dual degrees (both a B.S. and a B.A.) must earn a minimum of 150 credit hours while completing all requirements for multiple majors and the general education competencies.

Students meeting all of the requirements of two majors with less than 150 credit hours can obtain a multiple major designation. In the case of a double major, if the two majors involve multiple degree designations (e.g., B.A. in English and B.S. in Psychology), the student will have the option to select only one degree designation that appears on the transcript and diploma.

Second Degrees

A student who is already the recipient of a baccalaureate degree (either from East Stroudsburg University or from a different regionally accredited university) who wishes to pursue an additional undergraduate field will be required to complete a minimum of 30 credit hours at East Stroudsburg University including the requirements for the major. The program of study for the additional degree is to be approved by the appropriate department chair and appropriate academic dean.

National Honor Societies

Alpha Psi Omega	Dramatic fraternity
Alpha Kappa Delta	Sociology honor society
Chi Alpha Epsilon	Student support services honor society
Delta Alpha Pi	Students with disabilities honor society
Eta Sigma Delta	Hotel, restaurant, and tourism management honorary
Eta Sigma Gamma	Health science and education honor society
Gamma Theta Upsilon	Professional geography fraternity
Iota Iota Iota	Women's studies honor society
Kappa Delta Pi	Honor society in education
Lambda Pi Eta	Communication honor society
Omicron Delta Epsilon	Honor society of economics
Omicron Delta Kappa	Leadership honorary
Phi Alpha Theta	History fraternity
Phi Epsilon Kappa	Physical education honorary
Phi Sigma Iota	Foreign language honor society
Pi Sigma Alpha	Government honor society
Psi Chi	Psychology honor society
Rho Phi Lambda	Recreation honor fraternity
Sigma Phi Omega	Gerontology academic honor and professional society
Sigma Pi Sigma	Physics honor society within the Society of Physics Students
Sigma Tau Delta	English honorary fraternity
Sigma Theta Tau	Nursing honorary
Sigma Xi	Sciences and mathematics honorary of the Scientific Research Society

Additional information on Academic Regulations is available in the Student Handbook.

Fees and Deposits

Financial Obligation

Students, parents and others who are responsible for the financial obligations of students at East Stroudsburg University should understand that acceptance of admission and the privilege of attending imposes a financial obligation for a complete semester. Neither non-attendance, non-payment, nor failure to attend class constitutes official withdrawal. This must be done through the Center for Enrollment Services using the appropriate form(s).

Students who register by mail or in person must assume they are registered, whether or not they receive a confirmation or a bill. They will be held financially liable for their registration unless it is officially canceled through the Center for Enrollment Services.

Non-payment of fees or other financial obligations will prevent a student from being allowed to register for subsequent academic work and from receiving any official transcript of their academic record at this university.

Should the university find it necessary to refer a delinquent account to a collection agency or to an attorney, the cost of collection including attorney's fees, if incurred, is the student's responsibility.

Student Payment Policy

A student attending a course without proper registration and payment of all tuition and fees does not constitute de facto enrollment. The university will not permit retroactive enrollment in or payment for any class after the end of the term in which the course is offered. This policy was made effective with the beginning of the fall 1997 semester.

Summary of University Fees per Semester (2011-2012 Fees)

NOTE: Subject to change by the university without notice

Recurring Fees

Basic Fees

Pennsylvania Residents, Full-Time

(12-18 Semester Credit Hours) $3,120

Full-time students taking more than 18 semester hours pay an additional $260 per semester hour for any undergraduate credit hours in excess of 18. Undergraduate students taking a mixed load of undergraduate and graduate credits will be charged for any overload credits at the graduate rate of $416 per graduate semester credit hour.

Part-time Pennsylvania Resident Students taking fewer than 12 semester hours, pay at the rate of $260 per undergraduate semester hour scheduled and $416 per graduate semester hour scheduled.

Out-of-State Residents, Full-Time

(12-18 Semester Credit Hours) $7,800

Full-time students taking more than 18 semester hours pay an additional $650 per semester hour for any undergraduate credit hours in excess of 18. Undergraduate students taking a mixed load of undergraduate and graduate credits will be charged for any overload credits at the graduate rate of $624 per graduate semester credit hour.

Part-time out-of-state resident students taking fewer than 12 semester hours, pay at the rate of $650 per undergraduate semester hour scheduled and $624 per graduate semester hour scheduled.

Room and Board Fee

This charge represents the room and board fee for students who reside in on-campus facilities other than University Apartments.	$3,474
Room and board fee for students residing in University Apartments	$3,599

ONLY University Apartments residents may choose alternative meal plans or delete meal service; all other students in on-campus housing must participate in either the 19, 15 or 10 meals a week meal plan or the 175 meals per semester block plan. A student may make meal plan changes during the first two weeks of the semester only.

Board Only

This charge is for off-campus students who wish to eat meals in the university dining hall.

ANY 19 meals	w/200 dining dollars	$1,218

Monday-Friday: Breakfast, lunch and dinner; Saturday and Sunday: Brunch and dinner

ANY 15 meals	w/200 dining dollars	$1,166
ANY 10 meals	w/200 dining dollars	$969
175 Block	w/200 dining dollars	$1,113
75 Block	w/200 dining dollars	$715

Dining Dollars: Unused dining dollars will carry over from fall to spring semester; however, they do not carry over to the next academic year. Unused dining dollars will lapse to the university at the end of each spring semester.

Advance Deposits

Advance Registration and Orientation Registration (non-refundable)	$175
Housing	$150

Additional Fees

General Fee (mandatory fee) full-time student	$859
Part-time student, per semester hour	$72
Technology Fee, (mandatory) full-time student:	
Pennsylvania Resident Student	$174
Out-of-State Student	$263
Technology Fee, part-time, per credit:	
Pennsylvania Resident Student	$15
Out-of-State Student	$23
Transportation Fee	
Part time Students	$11
Full time student	$23

Basic Fees

Pennsylvania Residents
This basic fee covers library and laboratory fees, the cost of registration, and the maintaining of student records. Students enrolled for continuing education courses and non-matriculated students pay at the applicable rate per semester hour.

Out-of-State Students
Students whose legal residence is beyond the boundaries of the Commonwealth of Pennsylvania pay out-of-state fees.

Non-Recurring Fees

Late Registration Fees

Late Request for Schedule $50
(Charges apply to students who were registered for and completed the previous academic semester)

Late Payment of Fees $50
(Charges apply to those who fail to make payment by the due date indicated in billing instructions)

Graduation Fee (non-refundable) $30

Application Fee (non-refundable) $45

Identification Card Fee $20

This is a permanent card that is validated each semester for use of the library, dining hall, student activities, and student identification. Lost or damaged cards will be replaced at a cost of $20.

Bad Check Fee $25

This is a handling fee assessed for all checks drawn in payment of fees that are not honored due to insufficient funds.

Guidelines for Determining Resident Status for Students

(Title 22 Pennsylvania Code, Section 153.1)

A student is classified as a Pennsylvania resident for tuition purposes if the student has a Pennsylvania domicile. A domicile is the place where one intends to and does, in fact, permanently reside. Because this decision is subjective, documentary evidence must be submitted to the Center for Enrollment Services for consideration.

Students who believe that they are qualified for in-state residency and those who would like to be made aware of the necessary factors to make such a transition should contact the Center for Enrollment Services. Each case will be decided on the basis of all facts submitted with qualitative rather than quantitative emphasis in support of the intention of the student to reside indefinitely in Pennsylvania.

If the student is not satisfied with the decision made by the university in response to the challenge, the student may make a written appeal to the Office of the Chancellor, State System of Higher Education, Dixon University Center, 2986 North Second Street, Harrisburg, PA 17110. The decision on the challenge shall be final.

Recurring Fees

Food Service Fee
Students in the eight on-campus residence halls may choose from the 19, 15 or 10 meals a week meal plan or the 175 meals per semester block plan. There are NO exceptions to this rule. Students living at the University Apartments may choose any of the alternative meal plans or delete meal service entirely. Off-campus students may purchase meal plans for the entire semester, individual meals at the dining hall, or may purchase E-dollars at the (eCard) office.

Advance Deposits
Each applicant offered admission to the university is required to submit a non-refundable Advance Registration and Deposit of $175 to reserve a place in the incoming class.

Housing
Each academic year an advance deposit of $150 is required, to be credited toward the second semester of that year. This deposit is non-refundable.

General Fee
This *mandatory fee* is used to support the university's academic programs and a variety of student services and activities such as student government, student organizations, health services and wellness programs, and Student Center debt service, capital replacement, and maintenance.

This fee is charged to *all students* (undergraduate and graduate, full-time and part-time, residential and commuting/off-campus) during all university sessions (including Intersession and Summer Sessions), and at all course locations (including internships, student teaching, University Center in Harrisburg, and all other off-campus sites). Refunds of the General Fee during regular and special sessions will be processed in accordance with the same schedule and policy as tuition refunds.

Technology Fee
This mandatory fee was instituted by the State System Board of Governors in the fall of 2002 and is used to enhance student access to the latest technology in the classroom and to prepare students for technology-driven world.

Damage Charges
Students are held responsible for damage, breakage, loss, or delayed return of university property. Damages that are determined to be communal will be prorated in accordance with university policy and housing contract agreement. Deliberate disregard for university property will also result in disciplinary action. All keys to university rooms are university property and are loaned to students. Students who do not return keys will be charged a lock replacement fee to be determined by the institution. Loss of a room key should be reported immediately.

Summer Sessions Fees 2012

(subject to change by the university without notice)

Basic Fee

Pennsylvania resident

per semester hour $260

Out-of-state resident (summer only)

per semester hour	$650
General Fee	
per credit	$71.58
Technology Fee	
Pennsylvania resident	
per semester hour	$ 15
Out-of State resident	
per semester hour	$23

Students enrolled for a period of instruction differing from the regular schedule pay additional fees on a prorated basis of the schedule of fees provided for the regular summer sessions.

Payment Information

Payments may be made via mail, telephone, or in person at the Center for Enrollment Services in Zimbar-Liljenstein Hall. ESU accepts bank or personal checks, MasterCard, and Discover.

Delinquent Accounts

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

Refund Policies

Housing

A student who officially withdraws completely from the university PRIOR to the beginning of any semester is eligible to receive a full refund of housing fees, but must forfeit the housing deposit.

A student who officially withdraws completely from the university DURING the semester will forfeit the housing deposit but is entitled to receive a prorated refund of housing fees, based upon a weekly scale.

The Housing Office will determine if any refund of housing fees is possible for a student who leaves university housing for medical reasons.

If a student is asked to leave university housing, the details concerning a housing refund shall be determined by the director of housing. The university shall always retain the authority to allow exceptions to this policy.

Meals

A student who officially withdraws after the beginning of a semester and who notifies Enrollment Services will be entitled to a refund of the board paid for the remainder of the semester. A student who withdraws during a week will be charged for the entire week.

Summer Session

Refunds of fees for a student who withdraws after the beginning of a summer session will be determined by the proportion of the term attended and will be prorated on the basis of the refund policy in effect for a regular session. It is the student's responsibility to complete the "Withdrawal" or "Drop" Cards. They are available in Department Offices and the Center for Enrollment Services.

Tuition

The date when students submit a completed "Drop" card to Enrollment Services to cancel their registration or to withdraw from a course determines their eligibility for a refund. A student who submits to Enrollment Services an officially approved withdrawal form prior to the beginning of any semester is eligible for a complete refund of all fees EXCEPT the application fee and registration and room deposits. (Please refer to refund policies that pertain to housing and meal refunds, if applicable.)

A student who withdraws after the beginning of a semester and who submits to Enrollment Services an officially approved withdrawal form is entitled to a refund of tuition according to the schedule as follows (Subject to change by the university without notice):

Refund	Period of Attendance
100 percent	First Week
80 percent	Second Week
60 percent	Third Week
50 percent	Fourth Week
40 percent	Fifth Week
No Refund	After the Fifth Week

Federal guidelines for the prorating of student financial aid awards to students who totally withdraw from the university partway through a term usually do not coincide with the above refund policy. Students contemplating mid-term withdrawal from the university should first contact the Center for Enrollment Services to discuss the impact of a contemplated mid-term withdrawal on their student financial aid awards and possible resultant personal liability to the university for charges not covered by prorated student financial aid awards.

Financial Aid

Financial aid is designed to help families offset the cost of a post secondary education. A student's financial aid package can be made up of grants and scholarships, which do not have to be repaid; loans, which must be repaid with interest; and student employment which allows students to earn money.

More than 72 percent of East Stroudsburg University students receive some type of financial assistance. The $5.9 million in financial aid distributed to students during the 2009-2010 academic year included $47.8 million in loans with the remainder in grants, scholarships, university employment and miscellaneous awards.

General Eligibility Requirements

In general, to be eligible for financial aid, a student must:

- Be a citizen or permanent resident of the United States;
- Have a high school diploma or an equivalent;
- Be matriculated at East Stroudsburg University and be enrolled in a degree, certificate, or other program (non-degree students are not eligible for financial aid); and,
- Maintain satisfactory academic progress to remain eligible for financial aid.

Application Process

East Stroudsburg University aid applicants must complete the Free Application for Federal Student Aid (FAFSA) to be considered for a Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), Federal Perkins Loan, Federal and University Student Employment, and the Federal William D Ford Direct Loan Program, which includes the Subsidized and Unsubsidized Federal Direct Loan.

ESU does not require or use the College Scholarship Service Profile application for aid consideration.

Incoming first year students should submit the FAFSA by March 1. All other students should submit the FAFSA by May 1. You may apply online by visiting the United States Department of Education at **www.studentloans.gov**

If applying for Federal Direct Loans, first-time borrowers are required to complete Entrance Counseling as well as a Master Promissory Note (MPN). Both may be completed online at www.studentloands.gov. No disbursements are credited to the student's account until these requirements have been satisfied. Eligibility of Federal Perkins Loan will be determined by Enrollment Services.

The FAFSA serves as a student's application for the Federal Pell and Federal Supplemental Educational Opportunity Grants. Pennsylvania residents will automatically be considered for the Pennsylvania State Grant if the FAFSA is completed.

In some cases, the Pennsylvania Higher Education Assistance Agency (PHEAA) may request additional information. Non-residents should check on the availability of state aid through their state agency. Please contact Enrollment Services if a current address and telephone number of a particular state agency is needed.

Financial Need

Financial aid is awarded on the basis of financial need, which is the difference between the total estimated cost of attending East Stroudsburg University and the ability of the family to contribute to educational costs. Each student is assigned a budget that includes tuition, fees, room, board and other costs which includes books, personal expenses and transportation to and from home each semester.

The family contribution is determined when the information submitted on the FAFSA is put through a formula approved by Congress. The resulting expected family contribution (EFC) is the amount the student and the student's family are expected to contribute. The EFC is made up of a contribution from the parents' total income and assets and a contribution from the student's income and assets.

Verification Requirements

Verification is the process of comparing actual financial data from tax returns to the data provided on the FAFSA. Much of the selection process is random. However, some applicants are selected because the information on the Free Application for Federal Student Aid is inconsistent. Applicants for financial aid should save all records and other materials used to complete the FAFSA such as U.S. federal income tax returns, and other records which will substantiate sources of income available. If a file is selected for verification, the required information will be requested from the applicant. Failure to supply this information will result in the cancellation of all financial aid. Verification may also result in a revision to any aid awarded prior to the completion of the verification process.

Payment of Financial Aid

Financial aid awards are credited directly to the student's university account each semester. Refunds from financial aid will not become available until the student's university account is satisfied. Students should plan to arrive on campus with enough personal money to purchase books and pay any off-campus housing expenses.

Forms of Financial Assistance

Grants

- **Federal Pell Grants** are available to undergraduates who are pursuing their first baccalaureate degree. Eligibility is determined from the information submitted on the Free Application for Federal Student Aid.
- **Pennsylvania State Grants** are awarded to undergraduate students who are residents of Pennsylvania. The award value is determined by PHEAA and is based upon the financial need of the applicant.
- **Federal Supplemental Educational Opportunity Grants** (FSEOG) are available to Pell-eligible students who demonstrate exceptional financial need as determined by the analysis of the Free Application for Federal Student Aid.

Loans

- **Federal Perkins Loans** are low-interest (5 percent) loans for undergraduates who demonstrate exceptional financial need. Students who graduate, withdraw, or cease at least half-time enrollment will have a nine-month grace period before repayment begins.

- **William D Ford Federal Direct Loan** offered by the federal government includes both Subsidized and Unsubsidized Direct Loans. Eligibility for the Subsidized Federal Direct Loan is determined on the basis of need as measured by the FAFSA and requires no payment of interest or principal until six months after the student ceases half-time enrollment, withdraws, or graduates. Unsubsidized Federal Direct Loans substitute for the EFC, up to the maximum per grade level, and require payment of interest only during periods of enrollment and the six-month grace period. The option of deferring these interest payments through capitalization is available.

The following chart shows Direct Loan amounts based on credits earned:

0-29 credits	$5,500	Year 1
30-59 credits	$6,500	Year 2
60-89 credits	$7,500	Year 3
90 credits & over	$7,500	Year 4

Additional Unsubsidized Federal Direct Loan funds are available to independent undergraduate students. Freshmen and sophomores may request up to $6,000, while juniors and seniors may request up to $7,000. Dependent students whose parents have been denied a Federal Direct PLUS Loan may also apply for these additional unsubsidized funds.

Federal Direct PLUS Loans are available to parents who have no adverse credit history. Repayment of a PLUS loan generally begins within 60 days of disbursement at a variable annual interest rate.

University Student Employment

Student Employment provides an opportunity for students to earn money for personal expenses. Campus employment consists of the federal work-study and state student employment programs. Students usually work 10 hours per week and are paid every other week.

Community Service Learning (CSL) work opportunities are available to students who demonstrate a financial need according to the FAFSA. Under this program, students provide services to off-campus non-profit agencies that include activities in the fields of health care, literary training, education, welfare, social services, and neighborhood and community improvement.

Other Sources

- **Athletic Grants-In-Aid** are awarded in accordance with intercollegiate athletics as a Division II institution and NCAA rules and regulations. Interested students should contact their respective coaches.
- **Scholarships**, based upon a variety of achievements and talents, are available at East Stroudsburg University. Funds for the various scholarship areas are made available through donations by private industry, faculty, staff, community contributions and through private endorsements. For a list of scholarships offered by the university, visit the Enrollment Services website at www.esu.edu.
- **A Tuition Payment Plan** through Academic Management Services, Inc., is available at East Stroudsburg University. This plan offers a low-cost, flexible system for paying educational expenses from current income through regularly scheduled payments over a period of 12 months. The cost of this plan is $60 (subject to change). There are no other fees or interest charges. Additional information is available from Academic Management Services, toll-free 800-635-0120.

Satisfactory Academic Progress Policy

To be eligible for federal financial aid and athletic grant-in-aid, a student must maintain satisfactory academic progress. Satisfactory academic progress is based on the total number of **new** credits that a student passed during an academic year (defined as Fall and Spring) as well as the cumulative quality point average (QPA). The original enrollment status determines the number of credits that a student must pass. All students are subject to the progress rule regardless of previous receipt of financial aid. Review occurs at the completion of each academic year. The review determines student aid eligibility for the next enrollment period (summer session and/or the following academic school year).

Undergraduate Students

The following chart shows the number of credits which must be successfully completed for a student to maintain satisfactory academic progress:

Semester Enrollment Status	Total Credits/Year
Full-time (12 credits)	24
Three-quarter time (9-11 credits)	18
Half-time (6-8 credits)	12
Less than half-time (below 6 credits)	Must complete the number of credits for which you enrolled.

Students enrolled full-time, three-quarter or half-time for only one semester must pass one-half of the requirement for the academic year. Less than half-time students enrolled for one semester must pass all of the classes in which they originally enrolled.

Students must also meet a qualitative measure of progress.

At East Stroudsburg University the student must have attained an overall quality point average (QPA) of at least a 2.00 in order to receive financial aid.

Special Grades

The following grades will have an adverse impact on academic progress because they are credits attempted and are used to determine the semester enrollment status:

W/Z	Withdrawing from a course after the first day of class.
I/X	Incomplete grades or no grade reported. If the incomplete grade is resolved by the close of the following semester and a passing grade is received, the credits will be counted.
E/F/U	Failure of a course.
L/Y	Classes that are audited.
R	Repeated classes will not count toward academic progress if the class was passed the first time the student was enrolled and the student is retaking the class for a better grade. Only repeated classes that students originally failed will be counted toward academic progress.

Remedial classes successfully completed will be counted toward the academic progress requirement for federal financial aid. They DO NOT count toward a student's total credits for graduation, nor do they count in the determination of grade level for student loans. For the Pennsylvania State Grant program, the successful completion of a remedial class may not always count toward the academic progress requirement. Students receiving a Pennsylvania State Grant who are

taking remedial courses should consult with the staff in the Center for Enrollment Services.

In addition, credits received from Advanced Placement Exams and College Level Examination Program (CLEP) tests are not used to satisfy a credit deficiency.

Summer Session Enrollment

If a student is deficient in credits and/or QPA at the end of the academic year, summer session classes may be used to eliminate the deficiency. No financial aid will be provided to help defray these summer session costs. The summer work need not be completed at ESU, but students should be aware that:

- transient clearance must be obtained prior to taking courses elsewhere to ensure these credits will be accepted at ESU;
- courses taken elsewhere will not affect the QPA. If the student's deficiency is in QPA, taking courses at another institution will not make up that deficiency.

It is the responsibility of the student to notify Enrollment Services that he/she has completed the necessary classes and is now maintaining satisfactory academic progress.

Maximum Time Frame for Program Completion

Full-time undergraduate students are expected to complete their program of study within six years or the equivalency of 12 semesters of full-time enrollment. Full-time students enrolled in an associate degree program are expected to complete their program within two and one-half years. The total semesters for completion of a program of study for part-time students will be extended proportionally.

For transfer students, the enrollment at prior institution(s) will be prorated by counting every 18 credits or part thereof that is transferred in as one semester. That total number of semesters will be subtracted from the 12 semester maximum time frame, with that remaining number being the number of semesters a student can receive financial aid at East Stroudsburg University. No financial aid will be awarded to any student beyond the undergraduate limitations unless extraordinary circumstances exist, as determined by Enrollment Services.

Academic Dismissal/Suspension

Academically dismissed students who have been readmitted through the admissions appeals process are not automatically reinstated for financial aid. They may file for an appeal using the appeals process below.

Appeals Process

A student whose financial aid has been canceled due to unsatisfactory academic progress may appeal this decision (in writing) to the senior associate director of Enrollment Services/Financial Aid. Documentation of extenuating circumstances (student illness, death in the family, etc.) **must** be included.

The East Stroudsburg University Center for Enrollment Services welcomes the opportunity to provide information and to assist students. Office hours are 8 a.m. to 4:30 p.m.

Campus Life

Opportunities for participation in co-curricular activities at the university are virtually unlimited. Learning outside the classroom is considered to be an integral part of the student's personal growth and development.

Alumni Association

The Alumni Association serves the university's 40,000 living alumni and promotes their continued involvement with ESU. The board of directors state that their mission is to "foster camaraderie, prosperity and the achievement of goals and endeavors set forth by the Association and the university." They have four standing committees (Volunteerism, Administrative, Programs and Communications) to perform the bulk of their work.

Some of the benefits and services alumni can take advantage of are: 1) access to an online community (www.esualumni.org) where they can see and register for the latest events as well as find classmates and network, 2) access to the official web page (www.esu.edu/advancement) filled with event information, ways to give, and fundraising initiatives, 3) receive the ***Alumni Herald*** which is produced three times a year and contains information on the happenings in the lives of classmates and university news, and 4) get discounts on car/home/renters insurance, to name a few.

For more than 100 years East Stroudsburg alumni have also financially supported their alma mater. Whenever their help was needed with new initiatives, alumni rose to the challenge. The Comprehensive Campaign, *Today's Dream, Tomorrow's Reality*, is a first for ESU and alumni leadership has been instrumental. The focal point of the campaign was the building of a new state-of-the-art Science and Technology Center. Other areas of the campaign are scholarship endowment, annual funds, arts and athletic renovations.

Everyone is welcome to visit the Henry A. Ahnert, Jr. Alumni Center, located just north of Kemp Library on Smith Street. Office hours are 8 a.m. to 4:30 p.m., Monday through Friday.

Athletics

Intercollegiate

The intercollegiate athletic program at East Stroudsburg University provides a quality educational opportunity for skilled students to maximize their sport abilities by means of competition against other colleges and universities. This is complemented by the enrichment of student-life experiences and the promotion of alumni-community relations.

Schedules for 20 sport teams for men and women are arranged on a seasonal basis for fall, winter and spring sports.:

Fall	*Men:* Cross Country, Football, Soccer *Women:* Cross Country, Field Hockey, Volleyball, Soccer
Winter	*Men:* Basketball, Indoor Track and Field, Wrestling *Women***:** Basketball, Indoor Track and Field, Swimming
Spring	*Men***:** Baseball, Outdoor Track and Field *Women***:** Golf, Lacrosse, Softball, Tennis, Outdoor Track and Field

Athletic activities take place in and on a variety of campus athletic fields. The main outdoor athletic facility, Eiler-Martin Stadium, has an all-weather track, turf, lights and seating space for approximately 6,000 spectators. The LeRoy J. Koehler Fieldhouse is the main indoor facility and has an indoor track, pool, weight rooms, tennis, basketball and volleyball courts.

As part of the university's effort to ensure compliance with the Higher Education Act and Equity in Athletics Disclosure Act, the Gender Equity Survey Report is on file in the Offices of Intercollegiate Athletics and Enrollment Services. This report contains information on participation and financial support as it pertains to East Stroudsburg University's intercollegiate athletics program.

Recreation Center Leagues

Recreation Center Leagues offers students the ability to form teams and play sports in a seasonal format. The entire program is voluntary for those who are not regular members of varsity or junior varsity squads and does not require the intensified training or high degree of skill necessary for intercollegiate athletics. Sports offered during the year include flag football, soccer, volleyball, dodge-ball, softball, basketball, and wallyball to name a few. Opportunities for participation are available in Men's, Women's, and Co-Ed Leagues.

ATM Services

ATM services provided by Pennsylvania State Employees Credit Union (PSECU) are located just outside the ground floor of the University Center between the University Center and the Keystone Room, as well as in the Science and Technology building.

Campus Activities Board (CAB)

The Campus Activities Board (CAB) is a student-run organization responsible for a wide variety of activities and events for the enrichment of the East Stroudsburg University community. The organization presents a diversified and unique program schedule of quality educational, cultural, social and recreational programs throughout the academic year.

CAB comprises nine executive board members who meet weekly during the semester to coordinate the various activities. The executive board consists of the four club officers and five committee chairpersons. The five CAB committees are: Concerts, Films, Coffeehouse (Comedy), Out and About (Trips), and Special Events. CAB is also involved with planning and promoting activities during Welcome Week, Family Weekend, and Homecoming.

Students who serve on CAB develop strong leadership skills and gain practical hands-on experience while having a great time in the process.

Campus Card Center

The Campus Card Center, located on the ground floor of the University Center, provides ESU students and employees with both a campus identification card (E-Card) and a convenient, easy, and safe way to make purchases and use services on and off campus. The E-Card provides electronic access to a declining balance (debit) account that can be used for the payment of certain items/services in the bookstore, convenience store, selected vending machines, library, and campus dining facilities. The off-campus sites that currently accept the E-Card include Burger King, Chili's, Cluck-U Chicken, CVS, Domino's Pizza, Goombas Pizza, Holy Guacamole, Kasa's Pizza, McDonalds, Palumbo's Pizza, Paradise Tanning, Pizza Hut, Sonic, South Beach Tanning, Vinny D's and Wendy's. Students may also use it

to gain access to their residence hall and the Recreation Center. Deposits may be made online, please visit the esu.edu website. *For further information, call 570-422-CARD.*

Housing Information

The campus contains five traditional residence halls, two new suite-style residence halls, and the University Apartments complex. They are equipped with lounges, kitchens, laundry and vending facilities, as well as living areas. Specific rules and regulations governing the residence halls are published and made available each year in the Residence Halls Information and Policies brochure. All residence halls are smoke-free.

First-year students are required to live on campus, unless they commute from their parent's/legal guardian's home. Housing on campus is provided on a combined room-and-board basis only (except for the University Apartments, where a meal plan is not required).

Off-campus housing information for upper-class and graduate students is available on the Residence Life and Housing homepage.

Transfer Student Housing

On-campus housing is not guaranteed for transfer students. Some requests can be accommodated, but the number depends upon housing availability from year to year, which is impossible to predict. All transfer students who pay the $175 Advanced Registration Deposit will be sent a link to the housing application via their ESU email account. The application is made on their ESU portal page. Offers are made generally starting in the summer, and on a first-come, first-served order as space becomes available. Transfer students are also encouraged to contact University Ridge, an off-campus, garden-style apartment complex on the perimeter of campus offering apartment style living with full amenities. University Ridge may be reached at 570-422-2400

Off-Campus Housing List

Residence Life and Housing provides students with a list of off-campus housing opportunities. This list contains apartment and room rental availability throughout the surrounding area. The list contains a brief description of the units, including information on rental charge and utilities. The rooms/units listed are not inspected by the university and the university does not represent the landlord or tenant. The Residence Life and Housing Office acts only as a clearinghouse for this information.

Off-Campus Housing Guide

The Guide to Off-Campus Living is designed to offer the student guidance on what to look for when deciding to live off campus. It also provides information on how to inspect a dwelling and provides tips for reviewing a lease agreement. A copy of this guide may be obtained from the Residence Life and Housing Office in Shawnee Hall and in Reibman Hall.

Orientation and New Student Programs

Orientation

Orientation is the most important summer program that assists incoming, fall-semester students and their parents in transitioning to the university experience. Academic information and placement testing, university success strategies, informal discussions with faculty members, administration, staff members, and student leaders, various presentations about university resources, interactive activities, entertainment, along with the opportunity to stay overnight and experience residence hall living, all assist in developing a comfort level that can be gained only by participation in orientation. Meeting and getting to know other incoming students and parents is also an integral part of university enculturation.

Multiple orientation sessions are scheduled each summer. Each two-day session is held Monday-Tuesday or Thursday-Friday, on specific dates in June and July. New transfer students have the option of participating in a one-day orientation in July that specifically addresses transfer issues. The student orientation leaders serve as mentors for new students during their first fall semester at the university. Students who enter the university in the spring semester participate in a one-day orientation program in January. *For further information, visit 403 Normal Street or call at 570-422-2862.*

New Student Mentors

New students can utilize upperclassmen mentors to help them become successful students at the university. Summer orientation leaders serve as mentors to new, first-semester students. Mentors enable new students to: understand and meet the academic responsibilities associated with university-level classes, access university resources, wisely manage their time at the university level, become involved in productive co-curricular opportunities, build positive relationships with peers, faculty, staff, and the community beyond the university, and discover the unique possibilities afforded them as members of the university community.

Academic Convocation

Academic Convocation is a ceremonial occasion which marks the formal opening of the academic year. It is the time when the university officially welcomes the new class of students and focuses on the academic mission.

Academic Convocation introduces the new class to the dignity of university ceremonies and academic regalia, the organizational structure of the university and the individuals who serve in leadership positions, the president of the Faculty Association and faculty leadership, the president of the Student Senate and outstanding student leaders, and the Alma Mater and ESU Promise.

The highlight of the Convocation is the speaker, typically a recent graduate or current student, who speaks to the new class about academic achievement, scholarly opportunities, and expectations for new students.

Academic Convocation brings the new class of students together for the first time to focus on academic excellence and scholarly engagement.

BALANCE: Being an Active Learner Amid New Collegiate Experiences

BALANCE is an acronym for Being an Active Learner Among New Collegiate Experiences. This weekly series of workshops provides new students with strategies to successfully balance the multitude of components of university life. Workshop topics include, but are not limited to: developing research and writing skills, successfully interacting with professors, managing time and stress, effectively taking notes and tests, strategies for retention of textbook material, budgeting and wise use of credit, techniques for choosing a major, and developing healthy academic, personal, interpersonal, and social lifestyles. The university's BALANCE program has been nationally

recognized for the past three years as a "Best College Character Program" for first-year students by the Journal of College and Character.

Publications/Media

Radio Station (WESS FM)

Students interested in radio broadcasting or in any aspect of radio station work have an opportunity to gain experience by working with WESS 90.3 FM, the student-oriented and operated educational radio station. The station's format is "diversified" and includes vintage radio shows, BBC world news, sports, talk shows, as well as many music genres such as alternative, classical, sports, rap and modern rock.

Stroud Courier

The Stroud Courier is the student-funded campus newspaper. The staff consists of students interested in all facets of journalism, who are responsible for each aspect of publication including news writing and editing, feature writing, sports reporting, photography, and layout. *The Stroud Courier* covers issues, events, and activities on campus, the surrounding area, and the world.

Student Handbook

The Student Handbook, prepared bi-annually by the Office of Student Affairs, is a compendium of information about the various phases of life on campus. The handbook provides the student with information concerning campus services, co-curricular groups and activities, as well as the official regulations, standards and policies of the campus.

Standards of Behavior

The mission and objectives of the university include a serious concern for the overall development of the individual. This philosophy implies that all students maintain high personal standards and conduct themselves in a manner which manifests not only intellectual and emotional growth but also personal and social development. The basic standards of behavior are outlined in the Student Handbook under the Judicial Process and Regulations and the Student Code of Conduct.

Student and Community Services

Academic Advisement

A faculty member from the student's major department serves as the academic adviser throughout the student's career at the university. The Office for Undeclared Advising serves all students who are undecided by providing academic advising and guidance in selecting a major. The office will help students choose a career path of interest to them and declare a major that will help them achieve their career goal. The Office of Academic Advising also provides academic advising and course selection assistance during the weeks prior to and during all pre-registration periods. *For further information, call 570-422-3164 or visit www.esu.edu/acadadv*

Academic Enrichment and Learning

The Department of Academic Enrichment and Learning houses the STAR Program, Student Support Services, the Learning Center, Office of Disability Services, Office for Undeclared Advising, Advising for Students in Academic Jeopardy, and the University Wide Tutorial Program. Students are invited to drop in at the Learning Center, located in Rosenkrans East, to find out more about academic support services that may enhance their academic development. *Visit www.esu.edu/ael*

STAR: A Program for Excellence

The STAR program is an academic success initiative at ESU that was developed to provide comprehensive academic support services to first- and second-year students. The mission of the STAR Program is to assist in the academic transition for students with targeted intervention through academic, social, personal counseling, advising, career exploration, tutoring and program activities that enhance their academic potential. The STAR program provides access to academic services that have been shown to assist students in achieving academic success and graduate from college. *For further information, call 570-422-3507 or visit the Learning Center, located in Rosenkrans East, or visit http://www4.esu.edu/academic_resources/academic_enrichment/star.cfm*

Career Resources Center

Located on the second floor of the University Center, this office provides an array of services which guide and support students and alumni through their career exploration, career building, and eventual professional job placement. Students should start their career planning during their first or second year and should contact this office to make an appointment or visit the office's website: www.esu.edu/careerservices.

Services provided include career counseling, career workshops, and computer technology based services such as a weekly part-time/summer jobs list and links to numerous sites pertaining to internships, career exploration, and professional job listings. This office also coordinates career days, job fairs, and on-campus recruitment by employers, and offers resume critiques and job search guidance. Students should visit the center to review books, computer programs, brochures, magazines, and videotapes relating to careers, employers, and graduate schools.

Child Care Center

The Rose Mekeel Child Care Center, Inc. is an independently governed and operated affiliate of the university. It is accredited by the National Association for the Education of Young Children and licensed by the Department of Public Welfare. The center is available to students, faculty and staff of the university. The remaining spaces are filled by the community. The center is staffed by a director, six teachers, and work-study students. This facility is open from 7:45 a.m.-5 p.m. (Monday to Friday) during the fall, spring, and summer sessions.

The program is a hands-on, developmentally appropriate program for children between 18 months and 5 years of age. C*all 570-422-3514 for information about enrollment and fees.*

Community Band, Concert Choir and Orchestra Program

These large performing groups are open to all university and community instrumentalists/vocalists with previous experience in high school or college ensembles. The ensembles rehearse for two hours one night a week and will perform pieces of standard literature. Public performances will occur at the end of each semester

Community Dance Program

The Community Dance Program includes classes for children and adults including adult classes in yoga, ballroom, Egyptian belly dance,

tai chi, and other dance styles, and childrens' classes in age groups from 4 to 15. Qualified students in the dance program teach the classes under faculty supervision; the community-service program provides students with authentic hands-on learning experience.

Commuter Lounge

The Commuter Lounge is located in the University Center on the first floor. This lounge is equipped with a television, microwave and plenty of study and lounge space. Lockers are also located in the lounge. The locker rental is free for students but individuals must register with the University Center Information Desk where assignments are made. The lounge is also a place to find information about campus events and activities.

Commuter Student Services

Commuting and off-campus students comprise the predominant population of the university. ESU, in addressing the needs of the commuter student population, offers various academic and student services, including: off-campus housing listings, Guided to Living Off-Campus, Commuter Student Lounge, ride-sharing opportunities, and general support and advocacy. For assistance or more information, contact *570-422-3938*.

Counseling and Psychological Services (CAPS)

The Department of Counseling and Psychological Services offers a range of counseling services to facilitate and enhance the educational, psychological, and interpersonal well being of the East Stroudsburg University student community. The services provided are designed to maximize students' personal and educational functioning, to prevent and remediate emotional/social problems, to help students attain their educational goals, and to promote their professional competence.

Services offered include personal counseling/psychotherapy, vocational counseling, psychological and vocational testing, developmental and outreach programming, and consultation services in individual and group formats.

Some of the issues students often address through counseling include anxiety, career exploration/indecision, depression, difficulties in interpersonal relationships, eating disorders, family concerns, self-doubt, sexual concerns and substance abuse. In addition, the center maintains a small library of vocational information materials, study-skill aids, and resources and guides addressing various psychological and interpersonal problems and concerns.

Lastly, the Graduate Record Examination Subject Tests (GRE), the National Teachers Examination (PRAXIS), the Certified Health Education Specialist Examination (CHES), the Certified Strength and Conditioning Specialist exam (CSCS), and the Certified Personal Trainer exam are administered by the Department of Counseling and Psychological Services.

The Counseling and Psychological Services staff are licensed psychologists. Their professional training and experience prepare them to deal with a wide range of issues faced by university students. Currently enrolled students are eligible to receive services that are free of charge except for the fees associated with the national exams.

All information shared by a client is kept confidential, and all client records are classified as confidential records. Without a client's written permission, no information is released to anyone outside of CAPS, except as required by law.

The Counseling and Psychological Services office is located on the second floor of the Flagler-Metzgar Center. Normal hours of operation are 8:00 a.m. to 4:30 p.m. Monday through Friday. Services generally are offered by appointment and may be scheduled by stopping at the office in-person or by calling 570-422-3277. *For additional information, call or visit www.esu.edu/caps.*

Dance Program

The university provides several options for those interested in dance. The minor in dance is open to all students. The University Dance Company is a select group of 15-25 students, chosen by audition, who produce a performance each semester with choreography by faculty, guest artists and students. The ESU Contemporary Dancers is a student organization open to all students regardless of background, and produces recitals choreographed and performed by students. The Dance Team performs high-energy hip-hop and jazz dance during sports events. All of these organizations are open to majors in any area.

Disability Services

East Stroudsburg University of Pennsylvania is committed to providing equal educational access to otherwise qualified students with disabilities.Individuals with disabilities are guaranteed certain protections and rights of equal access to programs and services under section 504 of the Rehabilitation Act of 1973 and the Americans with Disability Act (ADA). Therefore, East Stroudsburg University of Pennsylvania recognizes the responsibility of the university community to provide equal educational access and full participation in any university programs and activities.

East Stroudsburg University of Pennsylvania believes that an individual's access to opportunities for achievement and personal fulfillment must be determined solely on the basis of the person's ability and interest.

The Office of Disability Services at East Stroudsburg University of Pennsylvania provides accommodations and services to students with documented disabilities (i.e., specific learning disabilities, attention-deficit/hyperactivity disorder, chronic illnesses, mobility impairments, deaf/hard of hearing, blind/low vision, psychiatric disabilities, traumatic brain injuries and other disabilities not specified) that result in substantial limitation of a major life activity.

Students who request accommodation or academic adjustments are responsible for providing required documentation to the Office of Disability Service and for requesting those accommodation or adjustments. In order to fully evaluate requests for accommodation or adjustments, East Stroudsburg University requires documentation of the disability that consists of an evaluation by an appropriate professional and describes the current impact of the disability as it relates to the accommodation.

The faculty members in the Office of Disability Services provide basic services and facilities accommodations for eligible students with documented disabilities who self-identify with a disability, provide appropriate documentation and request service. Documentation provided will be used by the faculty members in Office of Disability Service to evaluate request for accommodation or academic adjustments based on their professional judgment. The evaluation process includes a review of the documentation itself, an interview with the student, and the assessment of the student's program of study during the first semester the student requests services.

Academic accommodations allow equal access to academic programs and include classroom and assessment accommodations. Academic accommodations are based on documentation, a student's course of study and current functional limitations.

Academic accommodations are included in a letter which students give to professors at the beginning of each semester and /or after the interview meeting with the faculty member of the Office of Disability

Services. Interview meetings occur during the first semester the individual with a disability requests services and attends classes.

Some frequently used academic accommodations include but are not limited to:

- Extended time on exam
- Student note taking
- Reader/scribe for exams
- Exams taken on computer
- Textbooks in alternative format
- Computer access programs

Environmental accommodations provide equal access to facilities and may include housing and parking accommodations. Environmental accommodations are based on a student's documentation and current functional limitations. Please review the procedure to receive services for more information.

All personal services (attending care, transportation to campus, etc.) and equipment (e.g., wheelchairs, hearing aids) are the responsibility of each student and will not be provided by Office of Disability Services.

East Stroudsburg University is the home of the Alpha Chapter of Delta Alpha Pi (DAP) International Honor Society, established in 2004. It is the first honorary designed specifically to recognize the academic accomplishments of college and university students with disabilities. Undergraduate students who have completed a minimum of 24 credits and earned a quality point average of 3.1 are eligible for membership in DAP. Delta Alpha Pi has 65 chapters nationwide.

Visit our website at www.esu.edu/disabilityservices for more information To receive services please submit self-disclosed form and documentation to the Office of Disability Services, Fax (570) 422-3898 or e-mail ods@po-box.esu.edu

Educational Trips

Various departments, as well as clubs and organizations, sponsor field trips to points of interest in the surrounding area. The proximity to New York City and Philadelphia provides opportunities for students to enrich the activities of their curricula.

Fraternities and Sororities

The organizations that comprise the fraternity and sorority system provide a wide variety of educational, social, academic, philanthropic and leadership activities, events and programs for ESU students.

All ESU Greek organizations strive to excel in all areas of student life including: academics, community service, leadership, social and personal development. Being "Greek" provides a unique, diverse experience where students learn teamwork, time management, financial and organizational skills, and the importance of friendship and social responsibility that will help them as they become alumni and enter "the real world." Fraternity and sorority members are actively involved in extracurricular activities at ESU including intercollegiate athletics, club sports, and Recreation Center Leagues.

The ESU fraternities and sororities are self-governing and work together to benefit and support the university and the surrounding community. The Interfraternity Council (IFC) and College Panhellenic Council (CPH) are the governing bodies that represent all fraternal organizations at ESU and provide cultural, social and educational programs and events for the ESU student community. At the beginning of each semester, fraternities and sororities conduct recruitment events for the purpose of selecting new members.

To be eligible for membership in a fraternity or sorority at ESU a student must be at least a second-semester freshman, enrolled in at least six credits, and have a minimum of a 2.2 Cumulative Quality Point Average (transfer students must have completed at least 12 credits at the college level). *For a list of recognized fraternities or sororities eligible to extend invitations to membership contact Assistant Director of Student Activities at 570-422-3429.*

Learning Center

The Learning Center provides academic supportive services to the entire ESU community and houses the Tutoring Program and a computer lab. Professional and peer tutoring and drop-in-tutoring labs in mathematics, chemistry, physics, and economics are available to all students. The Learning Center, located in Rosenkrans East, is open Monday through Thursday from 8 a.m. to 10 p.m. and Friday from 8 a.m. to 4:30 p.m. and Sundays from noon until 10 p.m. for tutoring, studying and computer use.

The Learning Center is also responsible for helping students who are on academic warning or probation. The director meets with students to discuss learning strategies and study techniques, and to offer referrals to other services such as meeting with the student's classroom instructor or adviser, tutoring or the BALANCE workshops. Students who are in academic difficulty should make an appointment with the director as soon as they know they have been placed on warning or probation by calling 570-422-3504. Students may also stop in to the Learning Center director's office located in Rosenkrans East, Room 22. *For further information, call 570-422-3507 or visit www.esu.edu/learningcenter.*

Office of Diversity and Equal Opportunity

The Office of Diversity and Equal Opportunity's mission is to promote, plan and monitor social justice in the university community. In addition, it is to implement programs that enhance the human rights of the members of the East Stroudsburg University family. Moreover, the Office of Diversity and Equal Opportunity, with the cooperation of faculty, students, staff and administration, strives to:

- Ensure that the university is in compliance with equal employment law, affirmative action statutes, regulations, and legislation;
- Promote respect for individual differences and the right of individuals to be treated with respect and civility;
- Assure equity and to serve as an advocate for ethnic minorities, women, persons with disabilities, and other groups protected by federal, state or local laws;
- Assist in the creation of an environment in which diversity will be perceived as a strength; and
- Assist in the creation of a campus climate that is conducive to the optimal learning and development of all people at the university.

The staff of the Office of Diversity and Equal Opportunity is here to serve student, faculty, and staff at the university as well as guests of the campus. *For more information contact the office at 570-422-3656.*

Recreation Center

The Recreation Center, a state-of-the-art facility that opened in August 2003, provides the ESU community with general recreation opportunities and supports the ever-changing exercise needs of students interested in pursuing healthy lifestyles. In addition, the center offers comprehensive programs that include group fitness, special events, personal training, leagues and club sports. The Recreation Center employs more than 75 students who are directly responsible for the operation of each program and the facility.

The Facility: The 58,000 square foot Recreation Center offers students a four-court arena for basketball, volleyball, and tennis; a fitness center including cardiovascular, free-weight, and selectorized equipment; multipurpose studio for group fitness, dance, martial arts and other exercise programs; fitness arcade featuring Dance Dance Revolution and Game Bikes; racquetball courts; elevated track; indoor and outdoor equipment check-out; boxing zone that features a heavy bag and speed bag; and locker/shower facilities.

Group Fitness: The program is designed for individuals who are looking for an organized workout. The schedule includes 25-28 weekly fitness programs that include kickboxing, abs, yoga, step, Pilates and other aerobic activities. All of the classes are free and access is granted on a first-come, first-served basis. Each class is led by ESU student instructors who have qualified to teach.

Special Events: Special events are designed for students to enjoy unique programs in a fun and social setting. Many of the special events are one-night tournaments and educational events that expose students to new and exciting sports, recreational opportunities and healthy lifestyles. Some of the programs include racquetball, Late Nite at the REC, wallyball, tennis, badminton, Wellness Wednesday, Fitness Rewards and Video Game Mania. The Center is also the site of the annual campus concert which is run by the Campus Activities Board.

Personal Training: Qualified fitness staff members help identify, prioritize and achieve health and fitness goals. A range of personal fitness services are offered at a nominal fee.

Leagues: Please see the Athletics section.

For more information on programs, services, hours of operation, policies and procedures, visit www.esu.edu/reccenter or call the membership service desk at 570-422-2970.

Religious Life

United Campus Ministry (UCM) is a branch within the Office of Student Affairs that is supported by the Diocese of Scranton, the Northeast Regional Ministry in Higher Education, and is a member of the Monroe County Clergy Association. Its mission, both ecumenical and interfaith in nature, fosters an environment conducive to spiritual growth and development. UCM assists students in networking with local churches, places of worship, and local clergy.

UCM helps the local community in the following areas:

- Big Brothers/Big Sisters
- Habitat for Humanity
- Local soup kitchens
- Food pantries
- Schools and youth groups

Religious education and education in social justice are provided through retreats, educational programs, faith discussions, visits on campus by local clergy, and annual mission trips.

For more information, telephone 570-422-3525; or access the web site of UCM at www.esu.edu/ministry.

Residence Hall Association

Each residence hall has an elected council, which serves the interests of the students of the hall and sends representatives to the Residence Hall Association meetings. This representative group of men and women works toward enhancing residence life for students. It assists in formulating official standards and operational policies for residence halls, provides meaningful social activities, establishes programs of educational enrichment in the residence halls, and participates in various community service projects.

Social and Cultural Activities

The university offers a variety of social activities and opportunities for the campus community. Programs are sponsored throughout the year to enhance the quality of student life. Guest speakers on contemporary topics or controversial messages often visit the campus. Theatrical events and recitals featuring students and faculty are produced annually. Films, comedy shows, and concerts are also held throughout the year. In addition, a wide variety of intercollegiate, Recreation Center league, and club sports are available. Finally, major events such as Welcome Week, Family Weekend, Homecoming, Spring Week, Community on the Quad and Greek Week round out the social calendar.

Speech and Hearing Center

The Speech and Hearing Clinic, located in LaRue Hall, is operated by the Department of Speech-Language Pathology in connection with its clinical training program. Students provide therapy while being supervised by faculty who hold appropriate clinical certification and licensure.

Services provided by the clinic include evaluation and therapy in the following areas:

- Speech/articulation disorders
- Developmental language disorders
- Aphasia resulting from head injury or stroke
- Voice disorders
- Laryngectomy
- Cleft palate
- Stuttering
- Foreign accent reduction
- Communication problems resulting from hearing loss

Complete audiologic evaluations are available. Therapy is conducted in rooms that are observable through one-way mirrors. Families of clients are encouraged to observe therapy so that they may better help the clients at home.

Clients at the clinic include members of the community, children attending the Mekeel Child Care Center, and students and employees of the university. Both evaluation and therapy are free to students and employees of the university. *Anyone interested in clinic services should contact the clinic director at 570-422-3247.*

Stony Acres

Stony Acres, a 119-acre student-owned recreation area, is located just nine miles north of the university in Marshalls Creek. A multipurpose lodge, six cabins, a climbing tower, a challenge course, a camping equipment program and a variety of activities including canoeing, camping, frisbee golf course, cross country skiing, ice skating, hiking, fishing, and picnicking have made Stony Acres a popular spot year round.

The Stony Acres lodge is available free to campus organizations for meetings, workshops and other programs. *For lodge reservations, call Stony Acres directly at 570-223-8316. Cabin reservations and other information may be obtained by contacting the University Center at 570-422-3749.*

Student Government

The Student Senate comprises elected student officials and represents the student body in issues related to campus life. Senators from each class serve on committees concerned with academic affairs, social activities, clubs and organizations, student rights and responsibilities, etc.

Student Organizations

Approximately 100 clubs and organizations have been created as a result of student interest. Many of these groups are funded by the Student Activity Association. The scope of these organizations is widely varied, including publications, athletics, drama, music, service, social, scholastic, cultural, recreation, and scholastic honoraries.

Student Support Services

Student Support Services (SSS) is a federally funded TRIO program, housed in the Department of Academic Enrichment and Learning, designed to improve eligible students' academic performance, increase their motivation and enhance their potential for graduation. Students whose parents have not completed a bachelor's degree or who meet federally established economic guidelines or have a physical or learning disability may qualify for participation in SSS. The services for participants include: academic and career counseling, peer counseling, tutoring and drop-in-labs, study skills workshops, cultural, and social activities. *For further information, call 570-422-3825 or visit www.esu.edu/sss*

Telecommunication Service

Resident students are provided cable TV, Internet, and a "local service only" telephone line on their room. Students must provide their own telephone instrument to hook up to the phone line. Long distance phone service is NOT provided, and should be secured, if needed, through phone cards or personal cellular service.

Theatre Program

The university provides a comprehensive program in theater through the coordination of the Theatre Department and Stage II, the undergraduate dramatic organization. The program includes four major theatrical productions which include children's theatre as well classical and contemporary offerings utilizing the university's main and experimental theaters.

Transportation Options

Commuter students have various transportation options at ESU. Students must register their personal vehicles with the University Police and receive a parking decal. This decal enables the student to park in designated parking areas for commuters.

Other options for travel to and from campus follow below:

University Shuttle – A shuttle service is available on campus that is in operation Monday through Friday when classes are in session. It stops at University Ridge as well as other designated locations around the campus.

Local Bus Service – The Monroe County (MC) Transit has a local bus route that runs through campus and has various pick-up points and bus stops in East Stroudsburg, Stroudsburg, Tannersville, and Mount Pocono. The transit services extend as far as Snydersville and Effort. For more information on bus schedules, areas of transit and bus passes, contact MC Transit at 570-839-6282 or stop by the Office of Commuter Student Services for schedule guides.

Tutoring

The University-Wide Tutorial Program (UWTP), housed in the Department of Academic Enrichment and Learning, offers free individual and small-group tutoring in most 100- and 200-level undergraduate courses. Students may request tutors in one or more courses by completing the appropriate forms, which are available in the Learning Center in Rosenkrans East. In addition to individual and small group tutoring, drop-in tutoring labs in a variety of high demand subject areas, such as math, economics, physics, chemistry, writing skills, and Praxis Test preparation are offered each semester. These labs require no scheduled appointments. Supplemental Instruction is also offered in conjunction with specific courses. *For further information, call 570-422-3515 or visit the UWTP website at www.esu.edu/tutoring*

The Writing Studio

Located on the first floor of Kemp Library, the Writing Studio help students draft, revise, and complete their writing assignments, all in a comfortable, cozy environment.
Students will improve their writing through every stage of the writing process with:

- Guided practice
- Helpful tips and motivation
- Workshops
- One-to-one tutoring sessions
- Handouts and resources

Computers, quiet work space, and tutoring are all available. For more information visit www.esu.edu/writingstudio
www.esu.edu/writingstudio.

University Health Services

The university employs registered nurses, physicians, and a health educator for student health needs. The services provided include educational programs, diagnostic services and medical care for minor illnesses and injuries. Chronic condition or major problems are referred to the student's personal physician or to a local physician specialist; serious accidents are referred to Pocono Medical Center. In cases where referral is necessary to either the student's physician, a physician specialist, to a hospital or other medical facility, the costs incurred must be borne by the student. Fees for any medical treatment provided away from the health center, and for diagnostic testing which includes lab tests, X-rays, etc. are the responsibility of the student.

The Flagler-Metzgar Health Center maintains a formulary where many routine prescription medications are available when ordered by a health center physician. Students are encouraged to have some funds available on their E-card to cover elective services and prescription medications which are kept at nominal fees. Special prescriptions are also written when needed, however costs must be borne by the student at local pharmacies. A self-care area with over-the-counter medications and supplies is also available at no additional fee.

Only students who are currently enrolled in classes and who have completed their Report of Medical History Form, including required, updated immunization dates, will be treated at the university Health Services. Students who leave the university for whatever reason for a period of more than one year are required to complete new health examination forms.

Pennsylvania law (2002) requires that all students who reside in university-owned housing have documentation of receiving/refusal of the meningitis vaccine. All students planning to live in university-owned housing must submit their completed Report of Medical History form which includes this information prior to being permitted to move-in.

The health center is closed on weekends, holidays, and breaks when classes are not in session.

Health Center Hours:

Fall and Spring Semesters

Monday and Tuesday	8 a.m. – 6 p.m.
Wednesday and Thursday	8 a.m. – 5:30 p.m.

Friday	8 a.m. – 4 p.m.
Summer Sessions	
Monday to Friday	8 a.m. – 4 p.m.

University Marching Band

The marching band is open to all university students with prior experience at the high school or college level. The ensemble rehearses during the fall semester on Thursday and Friday afternoon and Saturday mornings on home football game days. Students in the band are required to participate in Band Camp the week prior to the beginning of the fall semester. The band performs at all home games, select away games and marching exhibitions.

University Store

The University Store is located on the ground floor of the University Center. The store sells a variety of high- quality goods and services at equitable prices to the students, faculty, staff and alumni of the university. The primary function of the store is to provide the university community with course books, both new and used, and course supplies that support the academic mission. The faculty and store cooperate in the process of making course books available to students. Store profits go back to students to subsidize funding of student groups, sports teams and organization.

The store offers the following products: general books, educational-priced computer software, supplies, stationery, campus apparel, prerecorded media, greeting cards, glassware, class rings, and assorted imprinted items. The store also offers the following services: shipping, fax, money orders, textbook reservation and special orders for clothing.

Store hours, during the academic year while classes are in session, are Monday through Friday, 8 a.m. - 5 p.m. and Saturday, noon - 4 p.m. At the beginning of the semesters, the store is open additional evening hours to better serve the students' needs.

The University Store also operates a separate/connected convenience store that features snacks, sodas, juices, frozen microwaveable foods, health and beauty aids, cards and supplies. The entrance is on the university plaza near the bridge and is open Monday through Thursday, 7:30 a.m.-8 p.m., Friday, 7:30 a.m.-5 p.m. and Saturday and Sunday, noon -8 p.m. *For further information, call 570-422-BOOK or visit www.esubookstore.com.*

Women's Center

The Women's Center, located in Rosenkrans East, provides a drop-in center and supportive networking environment for all campus women - students, staff, faculty, and administrators.

The Women's Center offers educational workshops on a variety of topics, supports political action for social change relevant to women, maintains a resource library on women's issues, supports student attendance at women's conferences and sponsors other special events for Women's History Month in March.

The Women's Center emphasizes and encourages the involvement of diverse groups of women including women of all races and ethnicities, sexual orientation, ages and physical abilities. *For further information, call 570-422-3472 or visit our website at www.esu.edu/womenscenter*

Veterans Affairs

The Veterans Certifying Official is located within the Center for Enrollment Services. The certifying official has the delegated authority to sign enrollment certifications, and other certification documents and reports relating to veterans and their dependents who are eligible for VA education benefits. For more information regarding Veterans services please visit our website at www.esu.edu/veterans, or call 570-422-2830, or visit the Veteran's Office in the Center for Enrollment Services located on the first floor of Zimbar-Liljenstein Hall

University Requirements

The requirements for the baccalaureate degree at East Stroudsburg University are:

1. A minimum of 120 semester hours. Some degree programs may require more than 120 credits.
2. At least 42 semester credit hours must consist of advanced level coursework (i.e., courses that often have prerequisites and noted as "advanced" in catalog). A minimum of 30 credit hours of the 42 advanced level semester credit hours must be courses from the 300 level and above.
3. A minimum cumulative quality point average of 2.00. Some degree programs may require a higher cumulative quality point average.
4. Demonstration of competence in basic mathematical skills. See Basic Mathematical Skills Competency on page 32.
5. Completion of the general education requirements. See General Education Program on page 34.
6. Students in B.S. programs may apply no more than 64 credits from any single department toward the 120 credit minimum. If a department offers courses under more than one rubric, then this regulation applies separately to each rubric used.
7. Completion of the requirements for one or more majors.
8. A minimum residency as outlined below:
   a. The minimum residence requirement for the baccalaureate degree is 30 semester credit hours of the last 45 credits of work at East Stroudsburg University, unless a waiver is granted. This waiver requires approval of the student's adviser, major department chair, and academic dean. Some programs which require off-campus senior level experiences at other schools have automatic exemptions from this section.
   b. The minimum number of credits in the major which must be taken at East Stroudsburg University will be determined by the department housing the major.

Course Numbers

Course descriptions are arranged by departments or by program. The course numbers are used to indicate the year in which courses are usually taken by students and/or the minimum number of prerequisite course(s) the student ought to have completed to gain admission in to the course. The student should read the catalog description of each course for more detailed information regarding the prerequisite(s) for that course.

- Below 100 level developmental courses do not carry credits toward graduation
- 100-199 Typically no prerequisites
- 200-299 Probably has one prerequisite
- 300-399 At least one prerequisite
- 400-499 At least two prerequisites
- 500-600 Graduate courses, cannot be taken by undergraduates without advance approval

In cases where students have not completed the prerequisites for a particular course, they may request a waiver of the prerequisites from the course instructor.

Course Credit

Course credit is measured in semester hours. A semester hour represents academic work equivalent to one hour per week in class plus two hours per week of outside studying for a semester. Class periods at East Stroudsburg are generally 50 minutes in length and are regarded as class hours. A semester is 15 calendar weeks. A semester hour of credit is also equivalent to 15 weeks of full-time study whether in class or outside of class. In some courses two hours of laboratory per week for a semester earns one semester hour of credit, while in other courses three hours of laboratory or fieldwork per week for a semester earns one semester hour of credit. For example, CHEM 353 Physical Chemistry (4) is a course in Chemistry which earns four semester hours of credit.

Basic Mathematical Skills Competency

Every undergraduate student who is seeking a first bachelor's degree must demonstrate a basic level of competency in mathematics as a condition for continuing enrollment at East Stroudsburg University. Because the skills that a student demonstrates by satisfying this competency requirement are essential for a successful undergraduate experience, including satisfactory completion of collegiate level mathematics and quantitative reasoning based requirements, the university requires that students demonstrate these skills early in their university attendance.

Under no circumstances will a student graduate without having met this requirement. Following are means for meeting this requirement and a summary of the university's developmental approach to students who fail to meet this requirement in a timely fashion.

Means for Demonstrating Basic Mathematical Skills Competency

This competency may be demonstrated in any of the following ways:

1. A Math SAT score of 500 or higher;
2. A Pennsylvania System of School Assessment (PSSA) ranking of Proficient or Advanced on the Grade 11 Mathematics Exam;
3. A grade of 3 or higher in an AP Calculus or Statistics test;
4. A passing score on the "College Mathematics" CLEP test;
5. A grade of C or better in a mathematics transfer course that is applicable toward satisfying the East Stroudsburg University general education requirement in Science: Mathematics, and which was taken within five years of the date of admission;
6. A passing score on the ESU Basic Mathematics Competency Exam (Note: This exam may be attempted up to three times); or
7. A passing score on the ESU course MATH 090 Intermediate Algebra (for which the ESU Basic Mathematics Competency Exam is the final examination).

Criteria 1-5 above will satisfy competency only if completed within five years prior to the date of matriculation to East Stroudsburg University.

If students have not satisfied the requirement based on SAT, AP or CLEP scores, PSSA ranking, or transfer credit, they will have an opportunity to take the Basic Mathematics Competency Exam during the summer orientation program. If students have not satisfied the competency requirement prior to the beginning of the first full-time semester, they should attempt the exam during the first semester of attendance. The exam is given during each semester for students who do not attend orientation or who fail the test during orientation.

Developmental Approach

Entering full-time students and full-time transfer students with fewer than 45 credits who have not satisfied the competency requirement will not be allowed to register or enroll in a third semester until they have formulated a plan for satisfying the requirement and had that plan *approved by an appropriate academic authority (see Plans below).*

If, by the end of the third semester of attendance, students still have not satisfied this requirement, they will be allowed to register and enroll in the next semester only if the course MATH 090 is included in their schedules.

If, by the end of this fourth semester, students still have not satisfied this requirement, they will be permitted to register and enroll in ONLY MATH 090 until this requirement is met. *See the requirements under "Entering and Transfer Students with Fewer Than 45 Credits Who Have Not Satisfied the Basic Mathematical Skills Competence Requirement," below.*

Students starting at ESU with 45 or more credits (as well as continuing and readmitted ESU students under previous catalogs) who have not satisfied the competency requirement will not be allowed to register or enroll in a second semester until they have formulated a plan for satisfying the requirement and had that plan approved by an appropriate academic authority *(see Plans below).*

If, by the end of the second semester of attendance, students still have not satisfied this requirement, they will be allowed to register and enroll in the next semester only if the course MATH 090 is included in their schedules.

If, by the end of this third semester, students still have not satisfied this requirement, they will be permitted to register and enroll in ONLY MATH 090 until this requirement is met.

See the requirements, below, under "Students Transferring to ESU with 45 or More Credits, Readmitted Students, and Students Continuing under Previous Catalog Students."

Plans: Information concerning the process for requesting approval of a plan will be available from the Center for Enrollment Services and the Department of Mathematics. University pre-approved model plans written in contract form are available from the student's academic adviser.

Entering and transfer students with fewer than 45 credits who have not satisfied the Basic Mathematical Skills Competency Requirement:

First ESU Semester: Academic advisers review the math competency requirement with students who have not satisfied it and together they formulate a plan to satisfy the requirement no later than the end of the second semester.

Second ESU Semester: Students receive a letter notifying them that a "hold" has been placed on their registration. Students must formulate a plan for satisfying the requirement. The plan must be approved by the appropriate academic authority before the registration "hold" will be released.

Third ESU Semester: Students receive a letter notifying them that a "hold" has been placed on their registration. Students must include MATH 090 in their next semester's schedule and submit their schedules to the appropriate academic authority before the registration "hold" will be released.

Fourth ESU Semester: Students receive a letter notifying them that a "hold" has been placed on their registration. Students may enroll only in MATH 090 in the next semester. Schedules must be approved by the appropriate academic authority.

Students transferring to ESU with 45 or more credits, readmitted students, and students continuing under previous catalogs who have not satisfied the Basic Mathematical Skills Competency Requirement:

First ESU Semester for Transfers/ 1st Semester Policy in Effect for Readmitted and Continuing Students: Students receive a letter notifying them that a "hold" has been placed on their registration. Students must formulate a plan for satisfying the requirement. The plan must be approved by the appropriate academic authority before the registration "hold" will be released.

Second ESU Semester for Transfers: Students receive a letter notifying them that a "hold" has been placed on their registration. Students must include MATH 090 in their next semester's schedule and submit their schedules to the appropriate academic authority before the registration "hold" will be released.

Third ESU Semester for Transfers: Students receive a letter notifying them that a "hold" has been placed on their registration. Students may enroll only in MATH 090 in the next semester. Schedules must be approved by the appropriate academic authority.

Foreign Language Competency Requirement For Certain Bachelor of Arts Degrees

The following foreign language competency is required for selected Bachelor of Arts degrees:

Native speakers of English

- Passing a foreign language competency examination offered by the Department of Foreign Languages at a level equivalent to Language II with a grade of "C" or better.
- Completing a college course at the level of Language II with a grade of "C" or better.
- Passing the CLEP test.

CLEP results are listed as either a "raw score" or a "percentile." The "raw scores" are translated on the test and indicate whether or not the student receives three credits. A "percentile" score of 50% or higher will result in the student receiving three credits.

- Passing the AP test with a score of "3" or higher.
- Transfer students who have successfully completed a course of foreign language study at Level II with a grade of "C" or better, within the last six years, will be considered as having satisfied this requirement.

Native speakers of a language other than English

- Will satisfy this requirement by successfully completing *English Composition (ENGL 103)* with a grade of "C" or better. Final determination of a student's status as a native speaker of a language other than English shall be established by the Department of Foreign Languages.

Bachelor of Arts Degrees requiring foreign language proficiency at level II are:

- Biochemistry
- Biology
- Chemistry
- English
- Environmental Studies
- Mathematics
- Philosophy
- Psychology

University Academic Initiatives

University Academic Initiatives consist of six university-wide academic services and programs aimed at ensuring the academic success of all students.

The goal of these initiatives is to achieve greater rates of student persistence, higher levels of student learning, more effective use of existing resources and more information for students and advisers.

The General Education Program

In collaboration with the University-Wide General Education Curriculum Committee and faculty from across the university, this program communicates the purpose and benefits of ESU's 50-credit General Education requirement to students and faculty. The program works to enhance ESU's determination of academic placements and competencies such as English and math, significantly contributes to the assessment of student learning outcomes, and facilitates ESU's ongoing dialog about the continuous improvement of General Education.

Students who began their academic careers at East Stroudsburg University prior to the summer of 1996 are required to complete the General Education curriculum which was in place at the time of their entry.

Undergraduate students complete their academic coursework within the offerings of one of four undergraduate colleges:

- **The College of Arts and Sciences**
- **The College of Business and Management**
- **The College of Education**
- **The College of Health Sciences**

In addition to completing the requirements for the major field of study, all students are required to complete 50 semester hours in General Education. Students will be assigned a faculty adviser who will provide guidance in planning their academic program. Students are responsible for knowing the requirements for the degree they propose to earn and for arranging their program of study accordingly.

A minimum of 120 semester hours is required for graduation. (Some programs require more.)

The General Education Curriculum at East Stroudsburg University provides a core of interrelated liberal studies for all students. By design it provides students with knowledge and perspectives and enables them to adopt varied modes of thought and develop specific competencies. Students become prepared to make informed judgments as citizens of this state, this nation, and a global society in which the quantity of information continues to grow.

Goals of the General Education Curriculum

Perspectives

Students who have successfully completed the General Education curriculum at East Stroudsburg University shall:

- Have embraced a sense of values and a commitment to ethical behavior
- Possess a broad perspective of knowledge as well as its creation and an understanding of the interrelationships among disciplines
- Value learning and possess intellectual curiosity

General Knowledge

Students who have successfully completed the General Education curriculum at East Stroudsburg University shall:

- Comprehend life and time from historical and contemporary perspectives and draw from experience to make informed decisions in the present and future
- Understand and appreciate human creativity, expression, and exemplary works that have been produced throughout human existence in the various performance, visual, practical and literary art forms
- Use concepts from the behavioral, life and social sciences in order to understand oneself and one's relationship with other people and to comprehend the nature and function of communities and institutions.
- Understand the physical world and its interrelationship with human activity in order to make decisions that are based on scientific evidence and responsive to the values and interests of the individual and society
- Know and appreciate some of the best original scholarly and creative works that have been produced throughout history
- Use varying modes of inquiry utilizing both quantitative and qualitative methodologies
- Understand the diverse dimensions and complex interrelationships of culture, language, ethnicity, gender, and nationality, and of the challenges of global interdependence
- Attain knowledge and skills for enriching the quality of life through physical activities which enhance cultural awareness and promote lifetime fitness

Competencies

All courses in the General Education Curriculum should be designed so that students who have successfully completed the General Education Curriculum at East Stroudsburg University:

- Participate effectively in the communication process by listening, speaking, reading, and writing
- Use mathematical systems effectively in conceptualization and communication
- Utilize appropriate technology effectively

The 50 semester hours in General Education are distributed in the following manner:

Required: 5 credits

English Composition: 3 credits

Students are placed in Composition Skills 090 or English Composition 103 based upon their writing and verbal SAT scores. Those placed in ENGL 090 must take and pass it before they can be admitted into ENGL 103. Students may be exempted from and receive credit for English Composition, ENGL 103, if they take and achieve a high score on the CLEP general examination in English Composition (with essay). Students must receive a minimum grade of "C" to fulfill the English Composition requirement.

Lifetime Fitness Activities: 2 credits

To fulfill this requirement, a student must successfully complete two credits selected from the Lifetime Fitness courses offered by the Department of Movement Activities and Lifetime Fitness. Prior

military service or law enforcement experience is not accepted for lifetime fitness credit.

Distributive Electives: 45 credits

Each student must complete at least 15 credits in each of three areas:

Group A — Arts and Letters

Group B — Science

Group C — Social Science

In each group, the student may take *three* credits in each of *three* subjects and *six* credits in a *fourth* subject or *three* credits in each of *five* subjects. Courses that satisfy General Education requirements are identified as GE in department course listings. Students should meet with their faculty advisers to plan appropriate choices to meet these requirements. Some GE courses may have specific prerequisites.

Arts and Letters (Group A) 15 credits

1. English Language and Literature
2. Fine Arts - Art, Communication Studies, Music, and Theatre
3. Foreign Languages
4. Performing Arts - Dance, Communication Studies, Music, and Theatre
5. Philosophy

(The distinction between fine and performing arts may be obtained from the faculty adviser.)

Science (Group B) 15 credits

1. Biology
2. Chemistry
3. Computer Science
4. Mathematics
5. Physics
6. Psychology

Social Science (Group C) 15 credits

1. Economics
2. Geography
3. History
4. Political Science
5. Sociology-Anthropology

Corequisite courses may be counted under General Education requirements in Groups A, B, or C if appropriate.

Exceptions

Required Science Courses: Where coursework in biology, chemistry, mathematics, or physics is required (or listed as recommended in the catalog) for the major, a student with a declared major may substitute those courses for courses in the same departments listed under Science Group B. If a student adopts the above provision and later changes his or her major to a field which does not require coursework in those disciplines, the student may nevertheless receive General Education credit for courses taken in those departments.

Foreign Language Courses: Students may substitute a higher-level foreign language course taught in the language for courses listed under Foreign Language Group A.

Teacher Certification: Students pursuing teacher certification must take two mathematics courses and two English courses (including one composition and one literature course).

Teacher Certification Requirements: Please refer to *The College of Education* on page 42 in the Program Offerings section of this catalog.

American Democracy Project at ESU

The American Democracy Project at ESU is part of a national multi-campus initiative that seeks to create an intellectual and experimental understanding of civic engagement for students enrolled at institutions that are members of the American Association of State Colleges and Universities (AASCU).

The goal of this non-partisan project is to produce graduates who understand and are committed to engaging in meaningful actions as citizens in a democratic republic.

East Stroudsburg University has been an active participant in this initiative since 2003.

Operating with support from the Office of the Provost and under the guidance of Dr. Marilyn Wells, Vice Provost and Graduate Dean, ADP at ESU supports and creates opportunities for student and faculty participation in the development of a campus-wide culture of democratic dispositions and practices.

ADP, often in conjunction with other campus and community partners including *The New York Times*, organizes and sponsors activities as voter registration drives, as well as such civic education events as Constitution Day celebrations in September of each year, debates and forums on important civic issues, surveys of campus attitudes and mock legislative events.

For more information about the ADP at ESU contact the campus co-coordinator Dr. Patricia Kennedy in the Department of Communication Studies (pkennedy@po-box.esu.edu) or co-coordinator Dr. Christopher Brooks in the Department of History (cbrooks@po-box.esu.edu).

Honors Program

The Honors Program offers ESU's best students the opportunity to fulfill a part of the general education requirements with special honors courses.

Unique features of the honors courses include a maximum class size of 20, specially selected professors, customized curricula, and close teaching-learning relationships in and out of the classroom.

Honors courses provide a stimulating introduction to the various aspects of our social, cultural, and scientific heritage.

Each student has an honors adviser in addition to an academic adviser.

In the junior year, students complete an honors thesis project within the department of their major.

Honors students have access to the campus' honors house for honors activities and quiet study.

Honors students are entitled to register for courses ahead of other students and are eligible for honors scholarships, international summer study scholarships, special recognition at graduation and on the official university transcript, and membership in the Honors Student Association.

Special attention and assistance in preparing graduate school applications and job applications are available from the program director and honors adviser.

For more information, visit www.esu.edu/honors.

Summer Seminar for Outstanding Sophomore Students

Students beginning or early in their sophomore year compete for the opportunity to participate in special late summer one-credit special topics seminars.

The one-week seminar includes the conduct of independent, innovative projects as well as two special events that often involve travel, and mentor training.

There is no cost to the selected students. Subsequent to the seminar, students serve as mentors to six entering freshmen during the fall semester.

Academic Research

Faculty in nearly every university department participate in scholarly activities including original research and creative endeavors, and student participation is often an integral part of such activities.

Students who participate with faculty in creative activities and research experience are often set apart from others in the job market and application to graduate school.

The university supports these activities by providing academic credit, space and monetary support for materials, logistics and travel to conferences through a variety of funding sources.

Successful faculty and students regularly attend regional and national conferences.

Service Learning

The Service Learning initiative seeks to expand opportunities to apply classroom knowledge in meeting the social needs of the community in a broader quest for the common good.

This is accomplished through an experiential approach to teaching and learning that can be implemented in courses within a variety of academic disciplines that incorporate leadership development, civic literacy, or the development of critical thinking as it relates to society.

Service Learning, whether through short- or long-term service projects, affords students the opportunity to integrate theory into practice, apply practical skills, and raise awareness about community issues.

Through real-life experience, Service Learning recognizes the reciprocal relationship between the campus and those being served, thereby encouraging students to embrace their role as vested community members while helping the community see the promise in ESU students.

Special Academic Opportunities

Air Force ROTC

East Stroudsburg University students are eligible to participate in the Air Force Reserve Officer Training Corps (AFROTC) through a cross-enrollment agreement with Wilkes University. Courses in this program will be taught at Wilkes University.

For additional information, contact the Aerospace Studies Department at Wilkes University, 800-WILKES-U, extension 4860 or 4861.

Army ROTC

East Stroudsburg University offers students the opportunity to participate in Army ROTC through a partnership with the Northeast Pennsylvania (NEPA) Army Reserve Officer Training Corps (ROTC) Battalion. The program is managed by the Department of Leadership Studies and Military Science on page 216 (see page 234) in the College of Business and Management.

Continuing Education

The continuing education program is designed to meet the needs of society by presenting a number of credit and non-credit courses at times convenient for the general public. These courses vary in length from one day to several weeks to the entire semester.

For additional information, contact the Office of Continuing Education at 570-422-2853.

High School Access Program (Early Admission)

The High School Access Program provides an opportunity for high school students to begin their college careers early, on either a part-time or full-time basis.

The part-time (summer or regular academic year) student is a high school junior or senior who wishes to take one or two courses at East Stroudsburg University in order to enrich his/her high school program.

Highly motivated students with a minimum average of B or higher in a college preparatory program may be recommended to the university by their guidance counselors. Students with less than a B average but who have demonstrated particular skill or talent in a given area may be recommended by their counselors to pursue coursework in that area.

Recommendations should be sent to the Office of Admission. Students are admitted to ESU in a non-degree status. Should a student wish to matriculate as degree-seeking at ESU after high school graduation, he/she must apply during the senior year of high school using the regular freshman application.

The full-time student is a student who has completed his/her junior year in high school and wishes to enroll in a full course of study at East Stroudsburg University in lieu of the senior year in high school. Such students must rank in the top 10 percent of their class and be enrolled in a college preparatory curriculum in order to be considered.

Full details are available from the Office of Admission or on the freshman information page of the admissions website at www.esu.edu.

International Programs and Student Exchange

Study Abroad

Study abroad opportunities are available to students who wish to study in a foreign university and experience life in another culture. Students may choose to participate in any international program sponsored by universities in the Pennsylvania State System of Higher Education as well as other colleges and universities throughout the United States. Information on academic programs, internship and volunteering opportunities abroad is available in the Office of International Programs.

Students will receive advising about choosing a suitable program, securing academic progress while abroad and having a smooth re-entry into ESU upon return.

For further information and application deadlines, please contact the Office of International Programs at 570-422-3527 or visit our website at www.esu.edu/studyabroad.

National Student Exchange

Students interested in exploring different learning environment, taking courses that are not available at ESU or expanding awareness about diversity in the United States will benefit from the opportunities offered by the National Student Exchange (NSE) program. Qualified students have the opportunity to study for a semester and up to one year in any of more than 200 universities participating in NSE in the United States and Canada. Credits and grades earned during the exchange become part of the student's ESU transcript. For further information and application deadlines, please contact the Office of International Programs at 570-422-3527 or visit *www.esu.edu*/nse

Internship Opportunities

Internships are available to students in most majors; academic credit may be awarded for the internship experience. Information regarding specific opportunities may be obtained by contacting department chairs or the deans of the College of Arts and Sciences; College of Health Sciences; College of Business and Management; and College of Education. A list of organizations with which university students have recently interned, student taught, and volunteered is available in the offices of the college deans.

Students considering an international internship may contact the Office of International Programs at 570-422-3527.

The Harrisburg Internship Semester (THIS)

During each semester of the academic year, East Stroudsburg University selects two undergraduate students to participate in The Harrisburg Internship Semester (THIS), sponsored by the State System of Higher Education and administered by the Dixon University Center in Harrisburg. Students selected are placed with policy makers in state government offices and agencies. Each THIS intern earns 15 semester hours: nine semester hours for the internship program, three semester hours for a research project, and three semester hours for participating in an academic seminar. A stipend covers tuition and living expenses. To be eligible to apply, a student must have maintained a 3.1 GPA in at least 60 semester hours.

However, students with 90 or more semester hours are given priority. These internships are available to students from all majors who are interested in public policy aspects of their disciplines.

For application materials or more information, contact the THIS campus coordinator, Glenn Gieser-Getz, at 570-422-3585, or www.esu.edu/~godich.

Law School Express Admissions Program

East Stroudsburg University has entered a partnership with Widener University School of Law in Harrisburg that allows graduates to apply to the law school under an Express Admissions Program.

East Stroudsburg University graduates are guaranteed admission to the law school if they rank in the top 50 percent of their graduating class, score at or above the 50th percentile on the Law School Admission Test (LSAT), submit a timely application, and meet the law school's character and fitness requirements. East Stroudsburg University graduates admitted under this program are also eligible for Dixon Scholarships that cover 30 percent of the law school's tuition.

For further information contact Professor Kenneth Mash at 570-422-3273.

Marine Science Consortium

ihe university is a member of the Marine Science Consortium which provides students in Marine Science and related disciplines with access to a marine station for field trips, summer courses, and research. The Consortium's field station at Wallops Island, Va., is only a short distance from Chincoteague and Assateague islands, which are well-known for their abundant wildlife.

For more information, see the Biological Sciences section in the Degree Programs and Course Descriptions portion of this catalog.

Research and Economic Development

The Research and Economic Development (RED) division offers students practical hands-on resume-building opportunities in the areas of entrepreneurship, workforce development, internships, grants, and sponsored research. *For additional information,*

call 570-422-7920 or www.esu.edu/red.

Entrepreneurship

The ESU Business Accelerator is a unique vehicle for students to engage in entrepreneurship and provides support for start-up companies with business plan assistance, networking and funding opportunities, in addition to the Entrepreneurial Leadership Center. The Center sponsors numerous opportunities for student involvement and promotes entrepreneurship across the curriculum.

Workforce Development and Online Student Internship Coordination

Students interested in internships, externships and graduate assistantships can explore these opportunities through the Workforce Development Office and the university's Web-Based Internship Network (WIN) esu.edu/win. RED also provides client companies with many workforce development resources and customized training programs, including educational opportunities offered through the university.

Office of Sponsored Projects and Research

The Office of Sponsored Programs and Research (OSPR) provides support to faculty, students and staff in all phases of their externally funded grants and sponsored research opportunities. The OSPR works closely with the office the Provost in identifying, applying for, and receiving grants funds, and conducting research or other scholarly activities.

Summer Sessions

Summer at ESU is a time to choose from a number of special programs, including innovative and stimulating courses, workshops, and travel programs. Undergraduate students wishing to accelerate and complete the four-year college program in three calendar years may do so by completing summer sessions over a period of three years. Graduate and non-matriculated students have the opportunity to take varied courses to acquire academic credit and professional competencies.

The official Summer Session bulletin, containing information on courses, expenses, and general regulations, may be obtained in late February by contacting the Summer Sessions Office at 570-422-2853.

Upward Bound

Upward Bound is a highly successful, college-based program of rigorous academic instruction, individualized tutoring and counseling for high school students who are the first generation in their families to consider post-secondary education.

A federally funded TRIO program, Upward Bound is designed to motivate and prepare students to successfully graduate from high school, enter and graduate from college. During the six-week summer program, students live on campus and participate in an intensive academic program. During the academic year, students receive academic instruction, tutoring, counseling and SAT preparation on Saturdays at the university.

For further information, call 570-422-3476.

Program Offerings

Definitions

Degree Designation Specific degree type, including but not limited to bachelor of arts, bachelor of science, master of arts, master of science, and doctor of education.

Major Academic Program A sequence of courses, activities, and/or experiences constituting a major field of study, culminating in a credit-based degree or certification

Minor When a Major Exists A coherent program of study that consists of most of the core major courses, but fewer electives, and includes at least 18 credits.

Minor When No Major Exists A coherent program of study, consisting of at least 18 credits, in an area in which the university does not offer a major

Other Academic Program A sequence of courses, activities, experience constituting a track, concentration, focus, option, specialization, emphasis, or equivalent no leading to a degree or certification.

The College of Arts and Sciences

Rosenkrans Hall West, Room 107 Dean Peter Hawkes

570-422-3494 www.esu.edu/cas

The College of Arts and Sciences includes the Faculties of Arts and Letters, Science, and Social Sciences. Following the custom of hundreds of years, the faculties and disciplines represented in the school offer a basic core of knowledge to which other dimensions and specializations are added.

The Faculty of Arts and Letters

Offers the following degree programs:

Majors

- Art and Design
- Communication Studies
- English
- Fine Arts - Art
- Fine Arts - Music
- French
- Interdisciplinary Studies
- Philosophy
- Spanish
- Theatre

Minors

- Art
- Communication Studies
- English
- French
- Interdisciplinary German Studies
- International Studies
- Music
- Philosophy
- Spanish
- Theatre
- Women's Studies

Teacher Certification

- English
- French
- Spanish

Concentrations

- Acting for Theater, Television, and Film
- Applied Music
- Art History
- Directing
- Design/ Technical Theater
- Fine Arts
- Jazz Studies
- Literature
- Music Literature and Theory
- Musical Theater
- Professional and Media Writing
- Studio Art
- Writing

Secondary Education programs leading to the bachelor of science degree with a major in English, French, or Spanish are offered jointly with the College of Education.

Studies in the liberal and fine arts enrich the intellectual, emotional, and social lives of all students, and thereby contribute to future success in any specific career. The student who majors in an Arts and Letters field enjoys flexible scheduling to reflect wide interests. The degree also provides a strong foundation for graduate study.

The Faculty of Science

Offers the following degree programs:

Majors

- Biochemistry
- Biology
- Biotechnology
- Chemical Biotechnology
- Chemistry
- Computer Science
- Computer Security
- Earth and Space Science
- Environmental Studies
- General Science
- Marine Science
- Mathematics
- Medical Technology
- Physical Science
- Physics
- Psychology

Cooperative Professional Degree Programs with other institutions

- Engineering
- Medical Technology
- Podiatry

Minors

- Chemistry
- Computer Science Applications

- Mathematics
- Psychology

Teacher Certification

- Biology
- Chemistry
- Earth and Space Science
- General Science
- Mathematics
- Physics

Concentrations

- Actuarial Science
- Applied Mathematics
- Applied Psychology
- Counseling Psychology
- Integrative Animal Behavior
- Integrated Organismal Biology
- Laboratory Medicine
- Podiatric Medicine Transfer
- Pre-Medicine
- Pre-Physical Therapy
- Pre-Physician Assistant
- Research Psychology

Students participating in the programs in science have great opportunities to enter a wide variety of fields, many of which are career-oriented and involve professional training and internships. For example, a student whose primary interest includes biology can study biotechnology, laboratory medicine, environmental studies, or marine science. Secondary education programs leading to the bachelor of science degree with a major in biological sciences, chemistry, earth and space science, general science, mathematics, or physics are offered jointly with the Faculty of Education.

Students may concentrate and/or prepare for further studies in the areas of environmental studies, medical technology, physical therapy, mental health, pre-medical school, marine science, and professional engineering. Students desiring to enter one of these programs should indicate such interest on the application for admission.

Some combination of chemistry and biology is valuable in any one of these programs. A major in any one or a combination among biology, chemistry and physics prepares one for medical, dental, optometry or pharmacy school.

The curriculum in Environmental Studies has been designed to meet the needs of students seeking an integrated interdisciplinary background within the tradition of a liberal education. The program is intended to provide students with an opportunity to select courses from various disciplines that will strengthen their understanding of environmental problems. The broad interdisciplinary nature of the program permits students to enroll in courses offered by different academic divisions and by various departments.

Cooperative engineering programs with Penn State University or other participating engineering schools permit a student to complete a bachelor of science in engineering at one of these institutions in two years, after completing the first three years at East Stroudsburg University. The student is also awarded the bachelor of arts degree from East Stroudsburg University with a major in any one or combination among the fields of chemistry, mathematics and physics. Similar arrangements in medical technology, pharmacy, and podiatry are also available.

Courses in computer science prepare students with valuable experience and training for jobs in industry and in management positions. Internships and training programs in psychology at hospitals and industries are useful in jobs related to human relations.

The Faculty of Social Sciences

Offers the following degree programs:

Majors

- Criminal Justice
- Economics
- History
- Political Science
- Social Work
- Sociology

Minors

- Economics
- Economics and Management Interdisciplinary
- Geography
- History
- Political Science
- Sociology

Teacher Certification

- Social Studies

Concentrations

- Accelerated Law
- American and World History
- Latin American and Latino History
- Politic and Government
- Pre-Law
- Public Administration
- Public History

The Faculty of Social Sciences promotes the scholarly tradition in the disciplines of anthropology, geography, history, political science, and sociology. The Faculty is committed to the belief that an education centered in the liberal arts is essential in the preparation of potential teachers and in a wide variety of professional careers. A secondary education program leading to a bachelor of science degree with a double major in social studies and either history, geography, economics or political science is offered jointly with the Faculty of Education.

A democratic society needs to generate a pool of people with the training, philosophical perspectives, and broad academic knowledge to assume leadership roles and to become responsible citizens in today's changing social, political, economic, and demographic environment. Accordingly, the Faculty of Social Sciences' programs are designed specifically for men and women who are career-oriented.

The Faculty of Social Sciences' curricula permit students to broaden their knowledge through general education requirements and to concentrate in an academic discipline through the departmental requirements of the chosen major.

The Criminal Justice Administration and Social Work concentrations are professional programs for those students who satisfy general education requirements and complete a departmental major. These concentrations provide academic and practical approaches by critically examining and interrelating subject matter within the Faculty of Social Sciences.

Economics majors will obtain a foundation in traditional economic theory that is the basis for the analytical thinking and sound managerial decision making. Students may choose to specialize in

Quantitative Economics, Global Markets, or Finance. The B.A. in Economics will prepare students to either pursue graduate studies in Economics or to enter the work force with careers in management, finance, and applied economics. Graduates have achieved careers such as actuaries, economics researchers, data analyst careers in management, stock brokers, and account executives.

The College of Business and Management

Rosenkrans East, Room 123A Dean Alla Wilson

570-422-3589 www.esu.edu/cbme

The College of Business and Management consists of five existing departments: the Department of Business Management, the Department of Sport Management, the Department of Recreation and Leisure Services Management, the Department of Hotel, Restaurant and Tourism Management, and the Department of Leadership Studies and Military Science.

The Faculty of Business and Management

Offers the following degree programs:

Department of Business Management

Majors

- Business Management

Career Specializations

- Accounting
- Entrepreneurship
- Management
- Finance
- Marketing

Minors

- Management
- Economics and Management Interdisciplinary

As companies strive to compete in a global market they look for employees who are knowledgeable in current business practices and who can effectively evaluate the current competitive environment and meet customer needs. Businesses want employees with strong communication skills who are good at analyzing and solving problems and thinking critically.

A business management degree can provide those skills, and earning this degree can increase your job opportunities and salary potential. The study of business management provides a broad education in business management practices and can be pursued on its own or with more a specialized area of study such as finance, accounting or marketing.

The Faculty of Hospitality, Leisure and Sport Management

Offers the following degree programs:

Department of Recreation and Leisure Services Management

Major

- Recreation and Leisure Services Management

Career Speciality Areas

- Commercial
- Outdoor
- Therapeutic

The program in Recreation and Leisure Services Management provides a bachelor of science degree for students preparing for a career in recreation. Students may choose emphasis areas in commercial, outdoor, and therapeutic recreation. Courses cover all aspects of recreation and leisure, from recreation for persons with disabilities, to resort recreation, to environment interpretation. The department has three full-time tenured faculty and approximately 100 majors. The degree program is fully accredited by the National Recreation and Park Association. The department has maintained accreditation since 1983.

Department of Sport Management

Major

- Sport Management

A degree in Sport Management prepares students for careers as administrators and managers in athletic, health, and country clubs, as well as entry level management positions in college and professional athletic organizations. Through this program, students are prepared for a diversity of roles in the areas of sport marketing and promotions, facility management and planning, activity programming and events management.

Internships are available in the areas of professional sports, college athletics, amateur and Olympic athletes and recreation sport. This program follows the North American Society for Sport Management ("NASSM") and National Association for Sport and Physical Education ("NASPE") requirements.

Department of Leadership Studies and Military Science / Army ROTC

East Stroudsburg University offers students the opportunity to participate in Army ROTC through a partnership with the North East Pennsylvania (NEPA) Army Reserve Officer Training Corps (ROTC) Battalion. The primary objective of the Reserve Officer Training Program is to develop leadership capabilities in students and to train future officers for the active Army, U.S. Army Reserve and Army National Guard. The ROTC program is an extensive leadership development program that concentrates on developing leaders through the demonstration of the seven Army values and 16 key leadership dimensions.

Department of Hotel, Restaurant and Tourism Management

Major

- Hotel, Restaurant and Tourism Management

Concentrations

- Hotel Management
- Restaurant Management
- Tourism Management

The Hotel, Restaurant and Tourism Management program provides a bachelor of science degree for students preparing for a career in the hospitality industry. A core of required courses represents every segment of the hospitality field; electives are selected to complement these and, along with the general education requirements of the university, a well-rounded curriculum results.

The travel and tourism industry is one of the largest, most dynamic industries in the world. Students of the Hotel, Restaurant and Tourism Management program are introduced to this exciting industry and will be prepared to enjoy a successful career in the travel and tourism industry. All courses are taught by faculty who combine excellent academic credentials with a strong professional background.

The Hotel, Restaurant and Tourism Management program is further enhanced through activities supported by the hospitality industry. Students participate in hotel and restaurant shows, tour hospitality facilities, listen to industry speakers, attend career days, and conduct special projects for the industry.

The College of Education

Rosenkrans Hall East, Room 123C Dean Pamela Kramer-Ertel

570-422-3377 www.esu.edu/ced

The programs in the College of Education are designed to provide meaningful learning opportunities for students aspiring to enter professional careers related to education or media communication and technology. Students are active learners in a variety of professional knowledge and performance-based preparation programs.

The College of Education

Majors

- Early Childhood Education (PreK-4)
- Special Education PreK-8 with a Dual Certificate in Early Childhood
- Special Education PreK-8 with a Dual Certificate in Middle Level
- Media Communications and Technology
- Media Paraprofessional
- Rehabilitative Services
- Teacher Certification in Secondary Education

Minor

- Media Communication and Technology

The conceptual framework of the teacher education program focuses on the decision-making processes of teaching and learning. The model for ESU is *Teacher Education Unit Conceptual Framework 2011: Reflective and Deliberate Decision-Makers.*

The beginning teacher must demonstrate knowledge and skill outcomes in four broad domains:

1. Content
2. The learner and learning environment
3. The teaching and learning process
4. Professionalism.

The model is supported through the Vision, Mission, and Philosophy as well as Beginning Educator Outcomes, a Knowledge Base and Learning Cycle, Teacher Initiatives and Assessment System.

The undergraduate curricula of the College of Education are designed primarily for students preparing for teaching careers in the early childhood and elementary schools, the middle or junior high school, or the senior high school. The College of Education encompasses the departments of Early Childhood and Elementary Education, Media Communication and Technology, Professional and Secondary Education, Reading, and Special Education and Rehabilitation, as well as the Academic Enrichment & Learning and the Office of Field Experiences and Partnerships. The major purpose of the college is to prepare teachers for positions in early childhood, elementary and secondary schools and people-oriented occupations, such as social and restoration agencies, state and federal government, and private industry.

The college provides programs that lead to certification in a number of degree areas (see degree program list). Graduates receive the degree of bachelor of science or bachelor of arts and are eligible for certification to teach in the schools of Pennsylvania. Students are encouraged to earn certification in several fields to enhance their employment opportunities.

Full national accreditation allows the graduate to be recommended for certification to teach in most other states without further course requirements. Information and advisement on certification is available in the office of the dean of the College of Education. Graduates are eligible to receive an Instructional I certificate (provisional) which is valid for a period of six years of teaching in Pennsylvania. The Instructional I certificate must be made permanent after six years of teaching.

The bachelor of science degree program in Media Communication and Technology (MCOM) prepares students as media generalists for entry level positions in the media production field. The program integrates a strong hands-on approach with a media theoretical basis as MCOM students create media in the areas of animation, photography, video and television production, audio production, web design, and graphics. East Stroudsburg University's facilities support cross platform computer labs, television studios, television editing, computer imaging, desktop publishing, sound recording, photography, and interactive 3D. A two-year associate degree is also offered.

Graduate work is offered leading to the master of education degree in Elementary Education, Secondary Education, Special Education, Reading, and Instructional Technology. Students interested in graduate programs should refer to the Graduate Catalog. The programs of the College of Education are fully accredited by the National Council for Accreditation of Teacher Education. All standards for program approval by the Pennsylvania Department of Education have been met.

Requirements for Teacher Certification

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to the new program and certification requirements. ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements, which will vary depending on a variety of circumstances.

Selection for the Teaching Profession

The nature and importance of teaching requires that students who seek to enter the profession must possess unimpeachable character, above average academic ability, and personality traits suitable for working with children and young adults. The teacher education faculty perceive their ultimate obligations to be to the students who will be taught by their graduates. Consequently, the student's admission to teacher candidacy and to student teaching and final institutional recommendations for a teaching certificate are not achieved solely by meeting routine academic requirements. As the student in each of these steps progresses toward final certification, the faculty of the student's certification area exercise their professional judgment as to the student's competency for the teaching profession.

Admission into Teacher Education Program

All education majors seeking certification must successfully complete teacher education program admission, monitoring, and exit criteria procedures. For admission into the Teacher Education Program, students must meet the following requirements:

1. Successfully complete faculty interviews;
2. Satisfactorily pass the Praxis I Academic Skills Assessments or PECT Pre-Service Academic Preformance Assessment in reading, writing, and mathematics as determined by program;
3. Earn a minimum overall undergraduate QPA as identified by Pennsylvania law (2.8 or as determined by the department; transfer students' grades are included in averaging the QPA);
4. Complete six credits of mathematics courses and six credits of English (including one composition and one literature) courses (undergraduates only);
5. Complete 48 hours by the time candidacy admission is decided;
6. Satisfactorily complete early field experiences;
7. Complete Act 34, FBI clearance and ACT 151 child abuse clearance;
8. Any other specific departmental requirements; and
9. Be recommended by departmental faculty and approved by the Teacher Education Council.

Students are then admitted to candidacy in the teacher education program and are permitted to take majors-only courses. A 3.0 QPA is required for Pennsylvania teacher certification.

The student's progress and mastery of competencies will be monitored while completing requirements in the program. All students are required to maintain a cumulative and major average as specified by Pennsylvania law and the respective departments, to remain in the program and to take teacher education classes. Only qualified teacher education majors are allowed to take teacher education classes.

Each department will provide each student a copy of its program requirements, course checklist, and expectations. Students must satisfy all program requirements to be recommended for the degree and teacher certification, including a 3.00 QPA.

All applicants for teacher certification must be endorsed by the faculty adviser, the department, and the dean of the College of Education, who serves as the certifying officer for the university.

Experienced non-degree teachers, graduates of other colleges or universities, or others who need special assignments in student teaching will have their individual alternative programs planned and approved by the appropriate department and by the dean of the College of Education. Transfer students' transcripts will be individually evaluated by the department chair to determine equivalent courses to be accepted.

The Pennsylvania Department of Education requires that all certification applicants satisfactorily pass the appropriate sections of the ETS Praxis or Pennsylvania Educators Certification Tests. Students must also complete the teacher certification application and respond to immigration, criminal record, child abuse, and health statements. The state of Pennsylvania is making changes in certification requirements which will impact program requirements for students completing their programs after 2012.

Pre-Student Teaching Field Experiences

The importance of providing opportunities for education students to observe and work directly with children in schools before student teaching is recognized. To make this possible, the director of the Office of Field Experiences and Partnerships works with departments to secure quality sites for students to engage in field experiences.

Field experiences are required in association with most education courses. Prior to being placed in their first field experience, students must submit a negative test for tuberculosis form and clearances for Act 34, FBI and Act 151.

Requirements for Approval to Student Teach

The Office of Field Experiences and Partnerships coordinates student teaching assignments. Students are required to submit an application to student teach to the Office of Field Experiences and Partnerships via Tk20.

The student teaching semester is the capstone experience of the teacher preparation program. During this semester, beginning educators have the opportunity to practice and demonstrate theory in practice, reflective and deliberate decision making, and pedagogical skill as reflected in the Beginning Educator Outcomes as each student teacher forms a unique, professional teacher identity.

In order to ensure that we meet our commitment to our public school partners, as well as maintain our NCATE accreditation, it is essential that all students demonstrate professional dispositions.

All students who wish to apply for a student teaching placement must satisfactorily complete ALL requirements listed below as related to their specific major. Failure to meet these requirements in a timely manner will prohibit student teaching eligibility.

1. Fall student teaching candidates must satisfy all TEACHER EDUCATION PROGRAM ADMISSION CRITERIA no later than May 15. Spring student teaching candidates must satisfy all TEACHER EDUCATION PROGRAM ADMISSION CRITERIA no later than Aug. 15.
2. Have met all requirements for teacher candidacy admission as required by the major department in education.
3. Possess health, personal characteristics, and professional dispositions considered essential for successful teaching.
4. Must meet specific departmental requirements for semester hour totals.
5. Have successfully completed prerequisite courses in education and have NO incomplete grades.
6. Must have earned a C or better in all major classes (as specified by the department).
7. Have a minimum cumulative quality point average of 2.8 or the minimum QPA established by the specific department.
8. Have the minimum QPA for the major as established by the major department.
9. Provide evidence of a current negative test for tuberculosis (within the last three months prior to the start of student teaching).
10. For K-6 and K-12 programs, students must have passing scores for the Praxis II test (Fundamental Subjects: Content Knowledge #30511) submitted to the major department office *no later than Nov. 30* for *spring* student teaching candidates, and *July 31* for *fall* student teaching candidates. (Some departments may follow require earlier deadlines — see specifications of major department).
11. Have current ACT 34, ACT 151, and Act 114 (FBI) clearances. (Current clearances are needed for the entire semester of student teaching.)
12. Must enroll in the department's required courses for student teaching during the registration period.
13. Must have current Student PSEA Liability Insurance and insurance for any other organization as determined by the major department.

**In order to obtain Pennsylvania certification, candidates must pass the Praxis II Specialty Area Tests that are required for the specific area of certification.*

Pennsylvania law, Chapter 354 requires a 3.0 cumulative quality point average to be eligible for Pennsylvania certification.

Student Teaching

Student teaching is the culminating experience in a series of planned laboratory and field experiences. Student teachers spend a full semester off campus in a regular classroom under the guidance and direction of a fully certified, master teacher.

The university provides each student with the additional support of a university faculty member with a background in supervision and instruction. Student teaching is planned to provide an opportunity for continued professional growth in the application of theory, methods, and subject content. Students are placed in school districts with which the university has an executed affiliation agreement or articulation contract.

To date, the university has identified more than 90 school districts, within a radius of 50 miles from campus. All student teaching arrangements are made through the Office of Field Experiences and Partnerships. It is inappropriate for students to make their own student teaching arrangements.

Student teachers are expected to comply with the following list of requirements:

1. Establishing personal transportation to and from the assigned school district.
2. Adhere to school district policies, procedures, ethics codes, schedules, and dress codes.
3. Purchase Student P.S.E.A. Liability Insurance.
4. Continue to hold current required clearances. An unacceptable clearance will result in the student being removed from student teaching.
5. Make arrangements for on and/or off campus housing.

Teacher Education Council

The Teacher Education Council provides the governance of the teacher certification programs. The council administers existing policies related to teacher education, admits students to teacher education programs and hears appeals from students, develops and proposes new policies in teacher education, and reviews certification programs and their modifications as proposed by departments and faculties to insure compliance with the standards of state and national accrediting agencies. These policies are found in the Teacher Education Program Policy Manual and minutes of council meetings.

Student Professional Program

Designed as an alternative route to teacher certification, this program offers the senior Elementary Education or Early Childhood major (dual major students may participate after consultation with the program coordinator) a full year of guided field experience in elementary and/or middle schools which are exploring new methods of teaching. Admission to the program is limited and requires the approval of the Early Childhood and Elementary Education Department chair and the program coordinator. Interested students are advised to make inquiry no later than the beginning of their sophomore year.

Areas of Teacher Certification

Instructional

- Biology
- Chemistry
- Early Childhood PreK-4
- Earth and Space Science
- English
- French
- General Science
- Health
- Health and Physical Education
- Mathematics
- Middle Level (4-8)
- Physics
- Social Studies
- Spanish
- Speech and Language Impaired
- Special Education PreK-8 with Dual Certificate in Early Childhood
- Special Education PreK-8 with a Dual Certificate Middle Level

Educational Specialist

- Instructional Technology

School Administration or Supervision

- Principal K-12
- Special Education Supervisor

Students must satisfy all teacher education program, departmental requirements, and revised PDE standards before they will be recommended for the degree and teacher certification. For public disclosure information on teacher education program completers, please see the ESU Title II website at www4.esu.edu/academics/university_schools/education/titleII.cfm giving passing rates and other summary data.

The College of Health Sciences

Rosenkrans West, Room 105 Dean Mark Kilker

570-422-3425 www.esu.edu/chs

The mission of the College of Health Sciences is to provide opportunities for undergraduate and graduate students to develop knowledge and skills in the disciplines of athletic training, clinical exercise physiology, dance, exercise science, health and physical education teacher certification, health education, health services administration, nursing, physical education, public health, safety, and speech language pathology.

The mission is in response to the nation's concern for healthy persons and healthy communities and to students interested in careers in health and human performance areas. Underlying the mission are three basic assumptions:

1. We can improve the quality of life in America through health education systems as society relies more extensively on individual and community responsibility to prevent disease and promote health for all citizens.
2. We can be instrumental in the promotion of exercise and movement which can improve the quality and length of life.
3. We can assist in prevention of illness and rehabilitation of health and human performance.

Seven departments — Athletic Training, Health, Exercise Science, Movement Activities and Lifetime Fitness, Nursing, Physical Education, and Speech-Language Pathology — comprise the college.

Each student's major program consists of sequential experiences which lead to a body of knowledge within the respective field of study as well as modes of inquiry in discovering new knowledge and its significant experiential values. Within the college, students are encouraged to develop and pursue specialized interests in relation to their goals and to accept the responsibility for their academic pursuits and ultimate professional growth.

The Faculty of Health Sciences
Offers the following degree programs:

Majors
- Health Education
- Nursing
- Public Health
- Speech-Language Pathology

Minor
- Health Services Administration

Interdisciplinary
- Gerontology

Concentrations
- Community Health
- Health Services Administration
- School Health

Teacher Certification
- Health Education

The Faculty of Human Performance
Offers the following degree program:

Majors
- Athletic Training
- Exercise Science
- Physical Education

Minor
- Dance

Teacher Certification
- Health and Physical Education

Concentrations
- Exercise Physiology
- Sport and Exercise Conditioning

Physical activity courses are offered through general education in the Department of Movement Activities and Lifetime Fitness. These movement activities and lifetime fitness experiences are intended to develop and improve the lifetime sport and fitness skills of the individual and to improve the student's perception of the role of dance, exercise and sport in living.

As our society becomes more technical, there is an increased need to enhance its vigor and productivity by managing stress, mastering the art of relaxation, and developing healthful lifetime activity skills.

Course Prefix Key

The following abbreviations are used to identify courses referred to in this undergraduate catalog.

ART	Art
ATEP	Athletic Training
BIOL	Biology
BIOM	Marine Science
CHEM	Chemistry
CMST	Communication Studies
CPSC	Computer Science
DAEL	Department of Academic Enrichment and Learning
DANC	Dance
ECED	Early Childhood Education
ECON	Economics
ELED	Elementary Education
ENGL	English
EXSC	Exercise Science
FIT	Fitness
FLAR	Arabic
FLCH	Chinese
FLFR	French
FLGR	German
FLIT	Italian
FLLN	Latin
FLNG	Modern Languages
FLJA	Japanese
FLPG	Portuguese
FLRU	Russian
FLSP	Spanish
GEOG	Geography
GSCI	General Science
HIST	History
HLTH	Health
HRTM	Hotel, Restaurant and Tourism Management
IIS	Intercultural and Interdisciplinary Studies
MATH	Mathematics
MCOM	Media Communications
MGT	Business Management
MUS	Music
NURS	Nursing
PETE	Physical Education Teacher Education
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSED	Professional and Secondary Education
PSY	Psychology
RECR	Recreation
REED	Reading
SMGT	Sport Management
SOC	Sociology

SOCJ	Criminal Justice
SOSW	Social Work
SPED	Special Education
SPPA	Speech Language Pathology
SPRE	Rehabilitative Services
THTR	Theatre
WMST	Women's Studies

Academic Programs and Courses

Academic Enrichment and Learning

Academic Affairs
Rosenkrans East, Room 222.....570-422-3507.....www.esu.edu/ael

Department Faculty

Distinguished Professors:
Germain Francois (gfrancois@po-box.esu.edu)

David Rheinheimer (daver@po-box.esu.edu)

Mollie Whalen, Chair (mwhalen@po-box.esu.edu)

Professors:
Jack Truschel (jtruschel@po-box.esu.edu)

Julie Albiero-Walton (jwalton@po-box.esu.edu)

Associate Professors:
Barbara Miccio (bmiccio@po-box.esu.edu)

Fernando Perez (fperez@po-box.esu.edu)

Assistant Professor:
Beverlyn Grace-Odeleye (beverlyn@po-box.esu.edu)

Instructor:
Virginia (Ginny) Reiner (virginia.reiner@po-box.esu.edu)

About the program
The mission of the Department of Academic Enrichment and Learning is to provide opportunities and support for students who want to improve their academic achievement; who are potentially at risk academically; or who may face institutional and attitudinal barriers to success.

The Department houses the The Learning Center, Office of Disability Services, Office of Underclared Advising, University-Wide Tutorial Program, Advising for Students in Academic Jeopardy, Student Support Services, and the STAR Program. The department offers a variety of services including academic advising, tutorial assistance, early registration and accommodations for eligible students with documented disabilities, academic counseling, academic skills development, and a First-Year Experience course.

Course description

Credits in semester hours, classroom work, and laboratory or fieldwork are indicated by three numbers in parentheses immediately following the course title

DAEL 100 First Year Experience (3:3:0)

The First Year Experience course is designed to improve student success in college by enhancing academic skills, self-awareness management, self-esteem, and promoting the value of a liberal education for personal development, civic engagement, and lifelong learning. It is highly recommended for all undeclared students matriculating from high school or transfer students with fewer than 21 credit hours.

Art

College of Arts and Sciences

The Faculty of Arts and Letters
Fine and Performing Arts Center, Room 233
570-422-3759.....www.esu.edu/art

About the Program

The Art Department offers two degree programs: Bachelor of Arts in Fine Arts with a concentration in either Studio Art or Art History and the Bachelor of Arts in Art and Design. *For more information about the Bachelor of Arts in Art and Design, visit www.esu.edu/art*

The B.A. in Fine Arts combines a generalist foundation with the opportunity to specialize in either Studio Art or Art History. The concentration in Studio Art allows students to create their own individualized program by taking courses in a wide variety of artistic disciplines. The concentration in Art History will provide students with a broad understanding of art from prehistory to the contemporary eras. Students in both programs will be well-prepared for many post-graduate opportunities.

Required Art History courses strengthen both the studio and design components by developing the student's artistic vocabulary. Highly qualified faculty and small class sizes provide individualized instruction that fosters enrichment and artistic growth.

Minors are also offered in both Studio Art and Art History.

Choose Art at ESU

- Qualified, experienced faculty
- Small class size
- Close faculty interaction
- Opportunities for exhibiting work in the Madelon Powers Gallery
- Specialized art studios and computer lab

Career Opportunities

- Art management and administration
- Painting
- Ceramics
- Printmaking
- Sculpture
- Education
- Graduate School
- More information is available from the department.

Faculty

Professor:
Herbert Weigand (hweigand@po-box.esu.edu)

Associate Professors:
Darlene Farris-Labar (dfarris@po-box.esu.edu)

Melissa Geiger (mgeiger@po-box.esu.edu)

Assistant Professors:
David Mazure (dmazure@po-box.esu.edu)

Joni Oye-Benintende, chair (jbenintende@po-box.esu.edu)

Facilities

Our facilities include five well-equipped specialized art studios, a state-of-the-art computer lab, and "smart classroom" for lectures. The Madelon Powers Gallery features an ongoing series of exhibitions.

Bachelor of Arts in Fine Arts

A. Studio Art Concentration

B. Art History Concentration

54 semester hours

- **Required courses:** ART 101, 151, 153, 201, 202, and 496

  A. Studio Art Concentration: Six additional Studio Art Courses at the 200, 300 or 400 level catalog listing.

  B. Art History Concentration: Six additional Art History Courses as the 200, 300 or 400 level catalog listing.
- **Corequisites:** MUS 100 and 211 or 311 and any three additional semester hours In Music (excluding MUS 100). THTR 100 and 302 or 304 and any three additional semester hours in Theatre.
- At least 18 semester hours in Art must be completed at East Stroudsburg University.
- Please view the university requirements in this catalog.

Program Curriculum Plan

Suggested Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

ART 151: Basic Drawing	3
ART 153: Design I: Two Dimensional	3
MUS 100: Introduction to Music	3
ENGL 103: English Composition	3
GE: Science or Social Science	3
Subtotal	**15**

Spring

ART 101: Introduction to Art	3
ART Elective (200, 300, 400 level)	3
THTR 100: Introduction to Theatre	3
GE: English, Philosophy, or Foreign Language	3
GE: Science of Social Science	3
Subtotal	**15**

Sophomore Year

Fall

ART 201: History of Art I	3
MUS 221: or MUS 311: Music of the Classical & Romantic Era	3
ART Elective (200, 300, 400 level)	3
GE: Science or Social Science	3
GE: English, Philosophy or Foreign Language	3
Subtotal	**15**

Spring

ART 202: History of Art II	3
ART Elective (200, 300, 400 level)	3

GE: Science or Social Science	3
GE: English, Philosophy, or Foreign Language	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

Upper Level Music Course	3
THTR 302: History of Theatre I or THTR 304: History of Theatre II	3
ART Elective (200, 300 or 400)	3
GE: Science or Social Science	3
Fitness Elective	1
General Education Course	3
Subtotal	**16**

Spring

ART Elective (200, 300, 400 level)	3
Upper Level Theatre Course	3
GE: Science or Social Science	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

ART Elective (200, 300, 400 level)	3
GE: Science or Social Science	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	15

Spring

ART 496: Fine Arts Seminar	3
Fitness Elective	1
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**13**

Total Credits	**120**

For more information, contact the Department of Art 570-422-3694, www.esu.edu/art

Art Minor in Either Studio Art or Art History

Program Features:

21 semester hours

- **Required courses:** ART 101 and 151 and

  Studio Art concentration: ART 254, 251, or 253 and 9 semester hours from 321, 354, 356, 401, 485.

  Art History concentration: ART 201, 202, and 9 semester hours from 302, 305, 412, 486.

Course Descriptions

ART 101 GE: Introduction to Art (3)
This course is an introduction to art of western culture with emphasis on painting, sculpture, and architecture through the ages.

ART 151 GE: Basic Drawing (3)
This course is an introduction to many drawing approaches with a variety of media and subject matter.

ART 152 GE: Letterforms (3)
This course involves studying the major letter styles of the English alphabet in chronological order — Roman, Bookhand, Italic, Gothic, and Contemporary styles. Exercises will include a series of problems that will be rendered in calligraphic lettering with pen and brush and media appropriate for developing various styles. Emphasis is on the composition, design elements, and expressive quality.

ART 153 GE: Two-Dimensional Design (3)
This course is a study of basic design concepts fundamental in the visual arts.

ART 154 GE: Three-Dimensional Design (3)
This is foundation course in the development of concepts in three-dimensional design. The course involves the use of various materials and organizational concepts to create form.

ART 201 GE: History of Art I (3)
This course consists of detailed study of the history of art to the Renaissance. It is designed to express the relationship between the artists and common historical, geographical, and ideological contexts and to note influences of other cultures on our own. It is offered in the fall semester.

ART 202 GE: History of Art II (3)
This course consists of detailed study of the history of art from the Renaissance to modern times. It is offered in the spring semester.

ART 220 GE: Graphic Design I (3)
This course is an introduction to graphic art design used in advertising. The tools, media, techniques, and production processes used in commercial art will be emphasized. Prerequisite: ART153.

ART 251 GE: Sculpture (3)
This course explores sculpture processes in wood, plaster, metal, and other materials. It is offered every two years or on the basis of student interest or need.

ART 252 Crafts Design (3)
This course explores the design and creation of craft objects in leather, fiber, glass, and other materials.

ART 253 GE: Ceramics I (3)
The course explores handforming methods in clay and basic glazing techniques.

ART 254 GE: Painting I (3)

This is an introductory course in acrylic and oil painting with a focus on color and painting techniques, as well as the development of visual awareness. Prerequsite: ART 151.

ART 256 GE: Watercolor Painting (3)

This is a study of watercolor painting with emphasis on color, composition, pictorial expression, techniques, and materials. Prerequisite: ART 151.

ART 260 GE: Printmaking I (3)

This is a basic course in printmaking. Content: Relief, Intaglio, Lithography, and Serigraphy. Prerequisite: ART 151.

ART 280 GE: Communication Graphics (3)

This course is concerned with communication techniques that involve services and products. It also involves techniques associated with the visual communication processes. Prerequisite: ART 151 or 153.

ART 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or courses to be offered on a trial basis in order to determine the demand for introducing them as part of the university curriculum.

ART 302 GE: American Art (3)

This course is a study of North American art from the colonial period to the present and will encompass painting, sculpture, and architecture. Offered every two years or on the basis of student interest or need. Prerequisite: ART 101 or 202.

ART 304 Art Gallery Management (3)

This course will explore the management of an art gallery from the perspectives of both the artist and of the gallery director. Prerequisites: Any two art courses at the 300 level or above.

ART 305 GE: The Visual Arts Since 1945 (3)

This course is a descriptive investigation of the visual arts from the late 1940s to the present. The unique contributions of various artists are investigated, as well as major movements. Prerequisite: ART 101.

ART 307 GE: Modern Art (3)

This course is a designed to introduce students to modern European art. Special emphasis will be given to the cultural and historical contexts in which modern art flourished. Students will learn to think critically about images, historical information, and art historical methodologies. Prerequisite: ART 101, 201, or 201.

ART 310 Painting Seascapes: Ocean Bays and Marshes (3)

This course is an intensive painting experience on location at the Marine Science Consortium at Wallops Island, Virginia. Students will paint at Chincoteague National Wildlife Refuge, Chincoteague Island, and at Wallops Island. Instruction will include seascape paintings incorporating the different cloud formations, flora and fauna of the area, and water movements of the sea, surf, and marshes. The light at daybreak and sunset as well as differing weather conditions will also be studied. Pre-requisite(s): Art 151 and Art 254

ART 321 GE: Drawing II (3)

Emphasis is on the human figure, using various media and techniques. Prerequisite: ART 151.

ART 354 GE: Ceramics II (3)

The basic focus of this course is wheel throwing, advanced hand building techniques, and glaze formulation. Prerequisite: ART 253.

ART 355 GE: Ceramic Sculpture (3)

Various methods of ceramic sculpture are explored ranging from in-the-round to relief. Prerequisite: ART 253.

ART 356 GE: Painting II (3)

Students are given the opportunity to work in greater depth in acrylics or oils to develop individual approaches, techniques, and forms of creative expression. Prerequisite: ART 254.

ART 401 Composition and Painting (3)

It is a course with emphasis on color, composition, and design in painting. Prerequisite: ART 254 and either 254 or 356.

ART 405 Illustration (3)

This course will build upon skills developed in lower level design, drawing and painting classes to enable the student to prepare illustrative materials for publication in the mass media. Prerequisites: ART 321 and 356.

ART 412 WS: Women Artists: From the Middle Ages to the Present (3)

This course is a historical survey of works by female artists in Europe and America from the Early Middle Ages to the present. Prerequisites: ART 101, 202.

ART 414 Portfolio In Art (3)

This course will prepare students for careers in an art related field through the development of a professional portfolio of artwork. It will also teach them to promote themselves as freelance and studio artists. The portfolio will contain a series of works of art produced in a variety of media including digital images. Prerequisites: ART 220, 280, 405.

ART 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis. Prerequisites: Any two courses in ART.

ART 486 Field Experience and Internships (Semester hours arranged)

Prerequisite: 18 credit hours in ART.

ART 496 Fine Arts Seminar (3)

A team-taught interdisciplinary capstone experience for senior Fine Arts majors. In conjunction with this seminar the student and faculty explore selected topics in the fine arts relative to the preparation of a thesis project in Art, Music, or Theatre through which the student will demonstrate a satisfactory level of performance and/or research skills. Prerequisites: ART 101 and one of 201, 202, or 205. Advanced standing of 90 credits and permission of instructor required. Also offered as MUS 496 and THTR 496.

Art and Design

College of Arts and Sciences

The Faculty of Arts and Letters
Fine and Performing Arts Center, Room 233
570-422-3759.....www.esu.edu/art

About the Program

The bachelor of arts in Art and Design develops skills in the field of graphic design. Courses in fine art, composition, design theory, and current media techniques will provide students with a strong foundation for success in visual communication and cultural literacy. A required internship gives students real-world experiences and potential employment opportunities.

Required Art History courses strengthen both the studio and design components by developing the student's artistic vocabulary. Highly qualified faculty and small class sizes provide individualized instruction that fosters enrichment and artistic growth.

Choose Art at ESU

- Qualified, experienced faculty
- Small class size
- Close faculty interaction
- Opportunities for exhibiting work in the Madelon Powers Gallery
- Specialized art studios and computer lab

Career Opportunities:

- Graphic and advertising design
- Art management
- Education
- Graduate school
- More information is available from the department.

Faculty

Professor:
Herbert Weigand (hweigand@po-box.esu.edu)

Associate Professors:
Darlene Farris-Labar (dfarris@po-box.esu.edu)

Melissa Geiger (mgeiger@po-box.esu.edu)

Assistant Professors:
David Mazure (dmazure@po-box.esu.edu)

Joni Oye-Benintende, chair (jbenintende@po-box.esu.edu)

Facilities

Our facilities include five well-equipped specialized art studios, a state-of-the-art computer lab, and "smart classroom" for lectures. The Madelon Powers Gallery features a series of exhibitions.

Bachelor of Arts in Art and Design

45 semester hours

- **Required courses:** ART 151, 153, 154, 201, 202, 220, 254, 280, 321, 356, 401, 405, 414, and 486
- **Required art history courses:** Three semester hour in Art History at 200, 300 or 400 level
- At least 22 semester hours in Art must be completed at East Stroudsburg University.
- Please view the university requirements in this catalog.

Program Curriculum Plan

Suggested Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

ART 151: Basic Drawing	3
ART 153: 2D Design	3
Art 201: Art History I	3
ENGL 103: English Composition	3
CPSC 100: PC & Their Uses	3
Subtotal	**15**

Spring

ART 154: 3D Design	3
ART 254: Painting I	3
ART 202: Art History II	3
CMST 111: Speech Communications	3
GE: Science of Social Science	3
Fitness Elective	1
Subtotal	**16**

Sophomore Year

Fall

ART 220: Advertising Graphics	3
ART 321:Drawing II	3
GE: Humanities	3
GE: Natural Science	3
GE: Social Science	3
Subtotal	**15**

Spring

ART 280: Communication Graphics	3
ART 356: Painting II	3
CMST 126 or 136: Intro to Mass Media or Pop Culture GE- fine art	3
GE: Natural Science	3
Elective	3
FIT	1
Subtotal	**16**

Junior Year

Fall

ART 405: Illustration	3
ART 401: Composition and Painting	3
GE: Humanities	3
GE: Natural Science	3
GE: Social Science	3
Subtotal	**15**

Spring

ART 486: Field Experience/Internship	3
ART (300 or 400 Level) Art History Elective	3
GE: Social Science	3
GE: Natural Science	3
GE: Humanities	3
Subtotal	**15**

Senior Year

Fall

GE: Social Science	6
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	15

Spring

ART 414: Portfolio Development	3
Electives	10
Subtotal	**13**

Total Credits	**120**

Department of Art 570-422-3694 www.esu.edu/art

Athletic Training

College of Health Sciences

The Faculty of Human Performance
Koehler Fieldhouse
570-422-3231.....www.esu.edu/athletictraining

About the Program
Join us in the exhilarating, fast-paced Athletic Training major that is specifically designed to prepare proficient and successful entry-level, certified athletic trainers. Athletic trainers specialize in the prevention, recognition, evaluation and assessment, immediate care, treatment, rehabilitation and reconditioning for a broad spectrum of athletic injuries and illnesses for athletic and physically active populations.

At its inception in 1975, the Athletic Training Education Program was one of the few co-educational programs amid the first 25 approved curricula in the nation. Now the program is nationally accredited by the Commission on Accreditation for Athletic Training Education (CAATE) and uses a competency-based approach in both classroom and clinical settings designed to teach entry-level athletic training skills. Student knowledge, skill, and professional behaviors are developed with an emphasis on clinical reasoning throughout clinical proficiencies.

Where Are They Now?
Alumni regularly pursue advanced and professional degrees at little or no cost through graduate assistantships. Alumni have received national recognition for their work and have become leaders in research, education and clinical practice. Many alumni serve in secondary schools, colleges and universities, sports medicine clinics and professional sports. Here are a few of the settings our alumni have chosen: public/private high schools, military service, college/university athletics, sports medicine/physical therapy clinics, corporate fitness, strength and conditioning/performance enhancement facilities, professional sports teams, U.S. Olympic Centers, hospitals, and even NASA.

Are You Interested In...
- Preventing, recognizing and treating sports injuries?
- Working with athletes and physically active people?
- Learning things "hands-on" and solving "real-life" problems?

Choose a Career in Athletic Training at ESU
- Nationally accredited program since 1975
- Help physically active overcome injury
- Become certified in an Allied Health Profession
- Provide care before, during and after sports injury
- Clinical experiences start your freshman year
- Qualify for graduate assistantships that PAY YOU to earn
- Advanced degrees

Is a Career in Athletic Training the Right Choice for Me?

Hands-On Learning

Caring for Athletic Injuries
- Prevention
- Evaluation
- Treatment
- Rehabilitation
- Kinesiology
- Biomechanics
- Exercise physiology
- Psycho-social aspects

Clinical Experiences
- 18 Division II varsity sports on-site
- Affiliated with nearby high schools, colleges and universities
- Instructed/evaluated by approved clinical instructors

Career Settings
- College/university/industrial
- Secondary schools
- Hospitals
- Professional/Olympic sports
- Rehabilitation clinics

More detailed information is available from the department.

Accreditation
The Athletic Training degree program is accredited by the Commission on Accreditation for Athletic Training Education (CAATE), a specialized accrediting agency recognized by the American Academy of Family Physicians (AAFP), the American Academy of Pediatrics (AAP), the American Orthopedic Society for Sports Medicine (AOSSM), and the National Athletic Trainers' Association, Inc. (NATA), cooperate to sponsor CAATE and to collaboratively develop the Standards for Entry-Level Athletic Training Educational Programs. CAATE is responsible for the accreditation of 360 professional (entry-level) Athletic Training educational programs.

Transfer Students
Many students transfer to our program from community colleges and other universities. We welcome any qualified student who is interested in an allied health career. More information about credit and course transfers is available from the Office of Admissions, 877-230-5547.

Bachelor of Science in Athletic Training

60 semester hours
- **Required major courses:** ATEP 100, 120, 202, 230, 235, 240, 285, 310, 330, 429, 430, 431, 432, 433, 436, 440, 445, 450, 487, 488, 489, 490.
- **Corequisites:** BIOL 111, 112; CMST 111 or 253; ENGL 203 or 225; MATH 110 or higher; PHYS 110 or 131; PSY 100; SOC 111; EXSC 310, 447; ATEP 121, 122.
- **Additional Requirements**: CAATE-Accredited Entry Level Program
- Please see the university requirements in this catalog.

Admission to the Athletic Training Education Program at East Stroudsburg University is competitive among eligible applicants. Minimum academic requirements have been established for students admitted to the Athletic Training Education Program and are described below. Exceptions to this requirement may be approved by the ESU Athletic Training Education Program faculty.

Program Curriculum Plan

(Subject to change by the university without notice)

120 Semester Hours

Freshman Year

Fall

ATEP 202: Kinesiology-Applied Anatomy	3
ATEP 100: Athletic Training and Sports Medicine Today	2
ATEP 120: Physical Conditioning	1
ATEP 121: Aerobic Fitness	1
ENGL 103 GE: English Composition	3
PSY 100 GE: General Psychology (B)	3
ATEP 240: Acute Care of Injuries and Illness	
Subtotal	**13**

Spring

BIOL 111 GE: Anatomy and Physiology I (B)	4
ATEP 230: Prevention and Management of Sports and Fitness Injuries	3
ATEP 235: Basic Athletic Training Lab	1
ATEP 122: Strength Training	1
ENGL 203 GE: Advanced Composition (A)	3
MATH 110 GE: General Statistics	3
Subtotal	**15**

Sophomore Year

Fall

BIOL 112 GE: Anatomy and Physiology II (B)	4
SOC 111 GE: Introduction to Sociology (C)	3
CMST 111 GE: Speech Communications (A)	3
ATEP 285: Pre-Clinical Laboratory	2
General Education (Group A or C)	3
Subtotal	**15**

Spring

EXSC 310: Exercise Physiology I	3
ATEP 330: Injury Prevention and Reconditioning Workshop	1
ATEP 429: Measurement and Evaluation of Lower Extremity Injuries	3
ATEP 487: Athletic Training Field Experiences and Internships I	3
PHYS 110 GE: Sound, Waves, and Light (B)	3
General Education (Group A or C)	3
Subtotal	**16**

***Summer: Pre-Season Internship**

Post-Session – 1 Credit

Junior Year

Fall

ATEP 430: Measurement and Evaluation of Upper Extremity Injuries	3
ATEP 433: Therapeutic Exercise	4
ATEP 488: Athletic Training Field Experiences and Internships II	3
ATEP 310: Psychosocial Issues in Sports Medicine	3
General Education (Group A or C)	3
Subtotal	**16**

Spring

ATEP 431: Organization and Administration in Athletic Training	3
ATEP 432: Therapeutic Modalities	4
ATEP 489: Athletic Training Field Experiences and Internships III	3
EXSC 447: Sports Nutrition	3
General Education (Group A or C)	3
Subtotal	**16**

Senior Year

Fall

ATEP 436: Medical Surgical Aspects	3
ATEP 440: Functional Rehabilitation and Sport Specific Conditioning	3
ATEP 490: Athletic Training Field Experiences and Internships IV	3
General Education (Group A or C)	3
General Education (Group A or C)	3
Subtotal	**15**

Spring

ATEP 445: Differential Assessment of Musculoskeletal Injuries	3
ATEP 450: Advanced Perspectives of Injury Recognition	3
General Education (Group A or C)	3
General Education (Group A or C)	3
Subtotal	**12**
Total Credits	**120**

For more information, contact the Athletic Training Department at 570-422-3231

Koehler Fieldhouse, Office 1B 570-422-3231
www.esu.edu/athletictraining

Admission Requirements and Retention Standards

Core Performance Standards for Admission and Progression

Applicants and students admitted into the Athletic Training Education Program (ATEP) offered through the Department of Athletic Training must possess the necessary intellectual, physical, emotional, social and communication skills to provide safe and effective athletic training services. Core performance standards for the Athletic Training Program at East Stroudsburg University are listed below. These examples are not inclusive of all expected abilities.

Candidates for selection to the ATEP must demonstrate:

1. The mental capacity to assimilate, analyze, synthesize, and integrate concepts and to problem-solve, to formulate assessment and therapeutic judgments and to be able distinguish deviations from the norm.
2. Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients.

3. Communication abilities sufficient for interaction with others in verbal and written form.
4. The ability to communicate and function well during periods of high stress.
5. The tactile dexterity, visual and auditory abilities necessary to observe, monitor, assess and treat patients.
6. The appropriate affective skills, demeanor and conduct that relate to professional education and quality patient care.

Compliance with these core performance standards does not guarantee a student's admission into the program, or eligibility for the BOC certification examination. During the initial advising period, students must verify they understand and meet those core performance standards, or, that they believe with certain accommodations, they can meet these standards. The Office of Disability Services will review the student's documentation and discuss any accommodation requests. Students should contact the Office of Disability Services at 570-422-3390 for additional information or to schedule an appointment.

Admission of Freshman and Transfers

Freshman and transfer students are admitted to East Stroudsburg University as Athletic Training majors. The pre-professional phase of study represents a time (generally three semesters) during which the student must address the prerequisites to the professional phase. Admission into the professional phase of the ATEP at East Stroudsburg University is competitive among eligible candidates. *A profile of the typical student who is admitted to the professional phase of the major and ESU and who is successful in becoming a certified athletic trainer would include SAT scores near or above 1000, a class* rank in the top *one third, an outgoing personality, a strong work ethic, good "people" skills, and a sincere interest in sports and in athletes.*

Formal progression into the professional phase of the Athletic Training major is contingent upon the pre-professional student meeting the following standards and completing the following prerequisites:

Standards For Progression to the Professional Phase of the Athletic Training Major:

1. Written Request to Progress to the Professional Phase;
2. Recommendation by a member of the ESU Athletic Training staff;
3. Completion of directed observation requirements;
4. Completion of 40 semester hours of course work (30 credits must have been completed at ESU unless all other criteria have been met);
5. Maintenance of a minimum quality point average of 2.50 overall and 3.00 in the major;
6. A grade of "C" or above is required in all prerequisites to athletic training courses;
7. A grade of "C" or above is required in all athletic training and corequisite courses;
8. Interview with a member of the Athletic Training Department Faculty Committee;
9. Approval of the Athletic Training faculty as indicated by appropriate signatures on the student's Athletic Training Plan of Study;
10. Concurrent enrollment in clinical field experiences (ATEP 487/488/489/490) once admitted to the professional phase;
11. Successful completion of an approved summer pre-season clinical field experience assignment (credit or non-credit).

Additional Information Pertaining to Admission into the ATEP

Failure to maintain the aforementioned standards or failure to demonstrate appropriate professional skills and conduct in any clinical experience is grounds for immediate dismissal from the program.

Students participating in intercollegiate athletics at East Stroudsburg University should, in concert with their academic adviser, plan a course of study that includes a minimum of one additional semester of academic and clinical work.

Transfers: Applicants with a 2.5 quality point average will be considered for admission. Transfer students must complete all prerequisite coursework and satisfactorily complete all other prerequisites for admission to the program. Transfers should schedule an interview with the director of the ATEP as soon as possible after receiving notification of admission to the university.

Additional Cost: Additional expenses required of students enrolled in the Athletic Training Education Program as they progress include but are not limited to: professional liability insurance, travel expenses to clinical sites, ACT 34 clearance and ACT 141 child abuse clearance, fingerprinting and school/institution uniforms.

Athletic Training Limited Enrollment Policy

Athletic Training Education is a limited enrollment program and therefore, admission is limited to the top 25 qualified students per cohort. Subsequent to their application, students will be ranked and selected for admission to the ATEP Professional Phase based upon:

- Overall Quality Point Average: Scale 6–1 (4.00-3.75=6; 3.74-3.5=5; 3.49-3.25=4; 3.24-3.00=3; 2.99-2.75=2; 2.74-2.50=1)
- Major Quality Point Average: Scale 4–1 (4.00-3.75=4; 3.74-3.50=3; 3.49-3.25=2; 3.24-3.00=1)
- Recommendation of sponsoring member of the ESU Athletic Training Staff: Scale 5–1
- Athletic Training faculty interview: Scale 5–1

A minimum score of eight points is required for entrance into the Professional Phase of the ATEP. In the event that there are more than 25 qualified applicants or there are ties that must be broken, a 50-question, multiple-choice exam covering cognitive and psychomotor competencies from Anatomy and Physiology, Acute Care of Athletic Injury and Illness, Kinesiology/Applied Anatomy, and Care and Prevention of Athletic Injuries will be administered. For these individuals, performance on the exam will determine placement status.

Athletic Training Professional Organizations

The National Athletic Trainers' Association (NATA) is the professional membership association for certified athletic trainers. Founded in 1950, the NATA has grown to more than 30,000 members worldwide today.

The Eastern Athletic Trainers' Association (EATA) formed in January 1949 when a few athletic trainers in the northeast decided to gather and share information. Today, the EATA encompasses all members of the National Athletic Trainers' Association who reside in either District I or District II.

The Pennsylvania Athletic Trainers' Society (PATS) is a progressive organization of healthcare professionals who work under the direction of a licensed physician.

Certified Athletic Trainers working in the Commonwealth protect and enhance the health and welfare of our clients through prevention, recognition, management, and rehabilitation of injuries.

Faculty

Professor:
John M. Hauth, Chair (Program Director) (jhauth@po-box.esu.edu)

Associate Professor:
Gerard D. Rozea (grozea@po-box.esu.edu)

Mertice M. Shane (mshane@po-box.esu.edu)

Keith A. Vanic (kvanic@po-box.esu.edu)

Assistant Professors:
Scott R. Dietrich (sdietrich@po-box.esu.edu)

Kelly Harrison (kharrison@po-box.esu.edu)

Colleen Shotwell (cshotwell@po-box.esu.edu)

Course Descriptions

ATEP 100 Athletic Training and Sports Medicine (2)

This course is designed to enable the student to understand movement studies and exercise science as fields of academic study, programs, and professional applications and to discriminate among these contexts and relate them by applying relevant knowledge and appropriate theoretical perspectives. Students will demonstrate the intrapersonal and interpersonal skills important for becoming a professional.

ATEP 120 Physical Conditioning (1)

This course provides for development of programs of exercise and activity and individual assessment of status, needs, and goals, and is designed to enable each individual to determine realistic goals for his/her development and the use of activity throughout his/her life.

ATEP 121 Aerobic Fitness Activities (1)

This course is designed to introduce students to the various aerobic fitness activities for adult populations. Techniques of fitness assessment, aerobic dance, jogging and aquacizing activities will be emphasized.

ATEP 122 Strength Training (1)

This course is designed to give the student a broad background in the area of strength training. Various strength training programs, techniques, and trends will be examined. Students will have the opportunity to set up and become involved in various strength-training methods. Recommended prerequisite: ATEP 120.

ATEP 202 Kinesiology - Applied Anatomy (3)

Upon completion of this course, a student should be able to identify the structural characteristics, movements, and muscles acting as the major joints of the body. The student will be able to select movements or exercises which utilize specific muscle groups and analyze the joint actions, muscle actions, and mechanical principles which apply to the performance of a specific movement.

ATEP 230 Prevention and Management of Sport and Fitness Injuries (3)

This course is an introduction to the principles and practices associated with sport and fitness injury management. The course emphasizes the development of competencies in the recognition and treatment of injuries appropriate for professionals working with active populations. Topics include injury mechanics, injury prevention strategies, and injury recognition and management.

ATEP 235 Basic Athletic Training Laboratory (1)

This laboratory course is an introduction to the psychomotor skills associated with sport fitness injury recognition, evaluation and management. The course emphasizes the development of competency in essential entry-level athletic training skills. Topics include injury and illness assessment skills, injury prevention techniques, and prophylactic bracing, taping and support techniques. Concurrent enrollment in ATEP 230 is required.

ATEP 240 Acute Care of Athletic Injuries and Illness (3)

This course focuses on the emergency management techniques that are commonly implemented when dealing with trauma and illnesses suffered during/through sport participation. Included will be field evaluation of medical emergencies, such as cessation of breathing or circulation, shock, concussion, and spinal injury to the athlete. Students will review policies and position statements issued by the NATA, NCAA, ACSM, AAP, and AMA regarding prevention, evaluation, and management of acute athletic injuries and illnesses. Prerequisite: HLTH 240 or current CPR certification.

ATEP 285 Athletic Training Pre Clinical Laboratory (2)

This course is designed to provide students in the pre-professional phase of the athletic training education program with the opportunity to learn, practice and apply a variety of entry-level athletic training skills. This course requires the student to revisit content and skills that have been instructed and assessed in previous ATEP courses. Prerequisite: ATEP 100, 120, 122, 230, 235, and 240. Medical Clearance, Child Abuse and Criminal Record Clearance, OSHA and HIPAA Certificates.

ATEP 286 Pre-Internship: Athletic Training Proficiencies (1-3)

This course is designed to provide students with the opportunity to observe and apply entry-level athletic training skills in selected clinical, educational, research or administrative settings. The emphasis is on the basic psychomotor proficiencies described in the CAAHEP Accreditation and NATA Education Council guidelines and specifically, those competencies previously addressed in ATEP 100, 230 and/or concurrently with ATEP 240. This course is designed for students officially enrolled in the undergraduate athletic training education program. Prerequisite: 30 semester hours; department approval.

ATEP 310 Psychosocial Issues In Sports Medicine (3)

This course examines issues related to the psychological impact and sociological factors related to exercise, injury and illness, inactivity and rehabilitation following sports injury. Particular emphasis is placed on developing strategies for identifying problems, intervening, and making referrals for commonly encountered injuries and illnesses. Prerequisite: ATEP 100, PSY 100, SOC 111 and 200 Clinical Hours.

ATEP 330 Injury Prevention and Reconditioning Workshop (1)

This workshop focuses on the application of basic conditioning principles and concepts used in the development of athletic reconditioning and injury prevention programs. Students completing this workshop will analyze the theoretical basis for various training methods and gain experience in reconditioning program design,

implementation, and documentation. Specific attention to how the program design is influenced by tissue healing and special considerations following an injury. Prerequisites: ATEP 120, 121, 122 and 230.

ATEP 426 Orthopedic Appliances Workshop I: Casting and Bracing (1)

This workshop introduces the latest techniques in orthopedic casting and bracing to the allied health professional. This workshop includes an intensive hands-on experience that will involve both instruction and practical application. Selection, application and removal of orthopedic casting for both upper and lower extremity disorders is addressed. Prerequisite: BOC Athletic Trainer Certification or eligibility, or, appropriate health care professional background.

ATEP 427 Orthopedic Appliance Workshop II: Advanced Casting and Bracing (1)

This advanced workshop will build on the fundamental competencies and proficiencies previously acquired in orthopedic casting and bracing. Furthermore, both instruction and practical application will be utilized to demonstrate current techniques in advanced orthopedic casting and bracing to the allied health professional. Complex techniques and modifications of basic orthopedic casting for the appendicular and portions of the axial skeleton are addressed. Prerequisite: BOC Athletic Trainer Certification or eligibility, or, appropriate health care professional background required. Demonstrated proficiency in basic casting and bracing techniques is required (ATEP 426/526).

ATEP 428 Orthopedic Appliance Workshop III: Orthotic Fabrication and Fitting (2)

This workshop is designed to provide instruction and experience in the fabrication, fitting and delivery of orthotic devices and related durable medical equipment. Special training and hands-on practice is included as it pertains to custom-designed, fabricated, modified and fitted external orthotics. Students are eligible to challenge the national board examinations for orthotic fitters (Certified Orthotic Fitter) upon successful completion of this workshop. Prerequisite: BOC Athletic Trainer Certification or eligibility, or, appropriate health care professional background required. Demonstrated proficiency in basic and advanced casting and bracing techniques is required (ATEP 426/526 and 427/527).

ATEP 429 Measurement and Evaluation of Lower Extremity Injuries (3)

The primary focus of this course is to present a systematic process for accurately evaluating lower extremity musculoskeletal injuries and illnesses commonly seen in the physically active population. This course focuses on the athletic training competencies and proficiencies associated with lower extremity injury assessment and evaluation, risk management and injury prevention, and acute care of injuries and illnesses. Prerequisites: ATEP 100, 202, and 230.

ATEP 430 Measurement and Evaluation of Upper Extremity Injuries (3)

The primary focus of this course is to present a systematic process for accurately evaluating upper extremity musculoskeletal injuries and illnesses commonly seen in the physical activity population. This course focuses on the athletic training competencies and proficiencies associated with upper extremity injury assessment and evaluation, risk management and injury prevention, and acute care of injuries and illnesses. Prerequisites: ATEP 100, 202 and 230.

ATEP 431 Organization and Administration in Athletic Training (3)

This course is a requirement for students in athletic training. It deals primarily with the administrative competencies necessary to accomplish the successful day-to-day operation of an athletic training program and facility. Prerequisites: ATEP 100, 202, and 230.

ATEP 432 Therapeutic Modalities in Sports Medicine (4)

This course is required for students in athletic training. Information and experience are provided in the use of massage and in the use of the physical agents of heat, cold, light, sound, and electricity in the treatment and rehabilitation of athletic injuries. Prerequisites: ATEP 100, 202, 230, 301; PHYS 110, 131 or 161.

ATEP 433 Therapeutic Exercise in Sports Medicine (4)

This course is a requirement for students in athletic training. The focus of the course is the application of neuromuscular re-education, movement, and exercise specifically to achieve the detailed goals of rehabilitation and reconditioning for injured athletes. Prerequisites: ATEP 100, 202, 230, 301.

ATEP 436 Medical and Surgical Aspects of Sport and Fitness Injuries (3)

This course examines the current medical practices used in the treatment and rehabilitation of physically active individuals. An emphasis is placed on orthopedic surgical techniques, pharmaceutical interventions, and the implications of treatment and rehabilitation. Students and certified athletic trainers are introduced to a variety of medical and allied medical personnel. Prerequisites: Current National Athletic Trainers' Association-Board of Certification certification as an athletic trainer or ATEP 230 and 430.

ATEP 438 Sports and Exercise Massage Techniques (2)

This workshop is designed to provide athletic trainers and other allied health professionals with the knowledge and skills necessary to incorporate pre-event, post-event and specialty sports massage techniques into clinical practice. The indications and contraindication for use of sports and exercise massage techniques are demonstrated, practiced and assessed. Hands-on activities will focus primarily on the skills needed to appropriately execute pre-event ("quick") or "post-event" (slow) massage techniques. Prerequisite: BOC certification or eligibility, or, appropriate health care basic science required.

ATEP 440 Functional Rehabilitation and Sport Specific Conditioning (3)

This advanced therapeutic exercise course is designed specifically for students admitted into the professional phase of the athletic training education program. The course focuses on the final stage of the rehabilitation process and concentrates specifically on fundamental skills, sport specific training, progressions, and testing and evaluation techniques. Building on competencies and proficiencies acquired in ATEP 120, 122, and ATEP 433, this course facilitates a new understanding of reconditioning and injured athlete and other physically active populations. Prerequisites: ATEP 120, 122, 433 and concurrent enrollment in ATEP 486 or BOC certification.

ATEP 445 Differential Assessment of Musculoskeletal Injuries (3)

This course is designed to differentiate between movement disorders and the diseases and disorders or pathologies diagnosed by a physician. Since some impairments are consequences of disease, the athletic trainer should be able to identify and recognize conditions which need to be referred to a physician. Prerequisites: EXSC 310, ATEP 433 and 436.

ATEP 450 Advanced Perspectives in Athletic Injury Recognition, Evaluation and Management (3)

This course is designed to explore the identification and treatment of athletic injuries. The information and skills are intended for those students with a relatively high level of sophistication in sports medicine. Prerequisites: ATEP 429, 430, 431, 432, 433, and 436.

ATEP 485 Independent Study (Semester hours arranged)

This course deals with independent research and study under the direction of a faculty member and is designed to deepen the student's interest in a particular area of an academic field. The directing faculty member will be available exclusively to the student for a minimum of five hours per credit. Approval for enrollment must be obtained from the faculty member and from the Department Chair. Approval and granting of credit must be in accordance with procedures and standards established by departmental faculty. The student must present a study prospectus prior to approval. Prerequisites: ATEP 100, 15 credits in ATEP.

ATEP 486 Field Experiences and Internships (Semester hours arranged)

Requirements for Approval: All internship sites must be approved by the department faculty. Each application for an internship must be approved by the faculty member in charge of the experience, the director/supervisor of the site where the internship will be done, and the department chair. Before application is made, students must meet the following requirements: 1) Have faculty recommendation based on qualities essential for success in the assigned environment; 2) Have successfully completed at least 45 hours of credit; 3) Have no incomplete grades in required courses; and 4) Have a minimum average of 2.5 GPA overall and 3.00 in major.

ATEP 487 Athletic Training Field Experiences and Internships I (Semester Hours Arranged)

This course is designed to provide students with an opportunity to observe and apply entry-level athletic training skills. These are skills that have been instructed and assessed previously, or, are currently being instructed and assessed. The Level One internship involves opportunities to observe and apply fundamental skills in selected clinical, educational, research or administrative settings. The emphasis is on the basic psychomotor proficiencies described in the NATA Educational Athletic Training Competencies and specifically, those competencies previously addressed in ATEP 100, 120, 122, 230, 240. This course is designed for students officially enrolled in the undergraduate athletic training education program at East Stroudsburg University who, as part of the clinical education program, must demonstrate learning-over-time. Prerequisite: Admission into the Athletic Training Education Program.

ATEP 488 Athletic Training Field Experiences and Internships II (Semester Hours Arranged)

This course is designed to provide students with an opportunity to observe and apply entry-level athletic training skills. These are skills that have been instructed and assessed previously, or, are currently being instructed and assessed. The Level Two internship involves opportunities to observe and apply fundamental skills in selected clinical, educational, research or administrative settings. The emphasis is on the basic psychomotor skills and proficiencies described in the NATA Educational Athletic Training Competencies and specifically, those competencies previously addressed in ATEP 100, 120, 122, 230, 240, 429. This course is designed for students officially enrolled in the undergraduate athletic training education program at East Stroudsburg University who, as part of the clinical education program, must demonstrate learning-over-time. Prerequisite: Admission into the Athletic Training Education Program.

ATEP 489 Athletic Training Field Experiences and Internships III (Semester Hours Arranged)

This course is designed to provide students with an opportunity to observe and apply entry-level athletic training skills. These are skills that have been instructed and assessed previously, or, are currently being instructed and assessed. The Level Three internship involves opportunities to observe and apply fundamental skills in selected clinical, educational, research or administrative settings. The emphasis is on the basic psychomotor skills and proficiencies described in the NATA Educational Athletic Training Competencies and specifically, those competencies previously addressed in ATEP 100, 120, 122, 230, 429, 430, 464 and EXSC 447. This course is designed for students officially enrolled in the undergraduate athletic training education program at East Stroudsburg University who, as part of the clinical education program, must demonstrate learning-over-time. Prerequisite: Admission into the Athletic Training Education Program.

ATEP 490 Athletic Training Field Experiences and Internships IV (Semester Hours Arranged)

This course is designed to provide students with an opportunity to observe and apply entry-level athletic training skills. These are skills that have been instructed and assessed previously, or, are currently being instructed and assessed. The Level Four internship involves opportunities to observe and apply fundamental skills in selected clinical, educational, research or administrative settings. The emphasis is on the basic psychomotor skills and proficiencies described in the NATA Educational Athletic Training Competencies and specifically, those competencies previously addressed in ATEP 100, 120, 122, 230, 429, 430, 433, 464 and EXSC 447. This course is designed for students officially enrolled in the undergraduate athletic training education program at East Stroudsburg University who, as part of the clinical education program, must demonstrate learning-over-time. Prerequisite: Admission into the Athletic Training Education Program.

Biochemistry

College of Arts and Sciences

The Faculty of Sciences

See Chemistry on page 113

Biological Sciences

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Programs

The Department of Biological Sciences offers undergraduate degrees under a number of different rubrics. The Bachelor of Arts and Bachelor of Science degrees in Biology offer a broad foundation based on a core curriculum. With this education, an individual has a wide range of career opportunities or may proceed on to graduate school. Individuals may change careers later in life with minimal retraining required.

Are you interested in...

- Laboratory activities
- Field research and observation
- Organizing and presenting data
- Learning how biological systems interact
- Human biology / anatomy
- Animal and plant biology

Choose Biology at ESU

- Multiple concentrations
- Small advanced class sizes and personalized attention
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Career Potential

- Research biologist
- Laboratory technician
- Medical professions
- Environmental conservation
- Forensic biologist

Career Settings

- Pharmaceutical companies
- Healthcare providers
- Environmental firms
- Food processing and safety departments
- Agriculture
- State and local government
- Universities and colleges

More detailed career information is available from the department.

Biology

About the Programs

The Department of Biological Sciences offers undergraduate degrees under a number of different rubrics. The Bachelor of Arts and Bachelor of Science degrees in Biology offer a broad foundation based on a core curriculum. With this education, an individual has a wide range of career opportunities or may proceed on to graduate school. Individuals may change careers later in life with minimal retraining required.

Are you interested in...

- Laboratory Activities
- Field Research and Observation
- Organizing and Presenting Data
- Learning How Biological Systems Interact
- Human Biology / Anatomy
- Animal and Plant Biology

Choose Biology at ESU

- Multiple concentrations
- Small advanced class sizes and personalized attention
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Career Potential

- Research Biologist
- Laboratory Technician
- Medical Professions
- Environmental Conservation
- Forensic Biologist

Career Settings

- Pharmaceutical Companies
- Healthcare Providers
- Environmental Firms
- Food Processing and Safety Departments
- Agriculture
- State and Local Government
- Universities and Colleges

More detailed career information is available from the department.

Bachelor of Arts in Biology

63 semester hours in sciences, 33 semester hours in biology

- **Required major courses:** BIOL 114, 115, 200, 331, 340 or 422, 495, 496 and a minimum of 13 additional semester hours in Biological Sciences, except for BIOL 103, 105 and 106. No more than six credits of BIOL 484 plus 486 internship may be applied toward Biology requirements for this degree.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131, 132; and two courses in mathematics or one course in Mathematics and one course in Computer Science (MATH 100, 101, or 105 not accepted).
- Please view the Foreign Language Competency Requirement in this catalog.
- **Required quality point average:** 2.25 or greater for courses in Biological Sciences. At least one half of the credit hours (17) required in biology must be completed at East Stroudsburg University.
- Please view the university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Biology Courses (Minimum)	**33**
Minimum Quality Point Average in Biology Courses	**2.25**
Required Courses	**20**
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology	3
BIOL 331: Genetics	3
BIOL 340: Animal Physiology or BIOL 422 Plant Physiology	**4**
BIOL 495: Seminar I	1
BIOL 496: Seminar II	1
Biology Electives	13
Corequisite Courses	
Chemistry	**16**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 234: Organic Chemistry II	3
CHEM 235: Organic Chemistry I Lab	1
CHEM 236: Organic Chemistry II Lab	1
Physics	**8**
PHYS 131: Fundamental Physics I	4
PHYS 132: Fundamental Physics II	4
Mathematics and Computer Science	**6**
Two courses in Mathematics or one course in Mathematics and one course in Computer Science NOT ACCEPTED: MATH 90, 100, 101, 105	
Suggested Courses:	
MATH 110: General Statistics I	3
MATH 135: Pre-Calculus	3
MATH 131: Applied Calculus	3
MATH 140: Calculus with Analytic Geometry I	3
MATH 141: Calculus with Analytic Geometry II	3
MATH 316: Biometry	3
CPSC 101: PC's and Their Uses in Sciences	3

Bachelor of Science in Biology

74 semester hours

- **Required major courses:** BIOL 114, 115, 200, 331, 340 or 422, 495, 496, and a minimum of 21 additional semester hours in

Biological Sciences except for BIOL 103, 105, 106 (cannot include more than six credits in BIOL 484 plus BIOL 489)

- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131, 132; and three courses in mathematics or two courses in Mathematics and one course in Computer Science (MATH 100, 101, or 105 NOT ACCEPTED).
- **Required quality point average:** 2.25 or greater for courses in Biological Sciences. At least one half (21) of the credit hours required in biology must be completed at East Stroudsburg University.
- Please view university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Biology Courses (Minimum)	**41**
Minimum Quality Point Average in Biology Courses	**2.25**
Required Courses	**20**
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology	3
BIOL 331: Genetics	3
BIOL 340: Animal Physiology or BIOL 422: Plant Physiology	4
BIOL 495: Seminar I	1
BIOL 496: Seminar II	1
Biology Electives	**21**
Corequisite Courses	
Chemistry	**16**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 234: Organic Chemistry II	3
CHEM 235: Organic Chemistry I Lab	1
CHEM 236: Organic Chemistry II Lab	1
Physics	**8**
PHYS 131: Fundamental Physics I	4
PHYS 132: Fundamental Physics II	4
Mathematics and Computer Science	**9**
Three courses in Mathematics or two courses in Mathematics and one course in Computer Science NOT ACCEPTED: MATH 90, 100, 101, 105	
Suggested Courses:	
MATH 110: General Statistics I	3
MATH 135: Pre-Calculus	3
MATH 131: Applied Calculus	3
MATH 140: Calculus with Analytic Geometry I	3
MATH 141: Calculus with Analytic Geometry II	3
MATH 316: Biometry	3
CPSC 101: PC's and Their Uses in Sciences	3

For more information, contact the department by calling 570-422-3725

or visit our website www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are academic biology, the health professions, commercial research opportunities, technical sales and management. Also, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers. Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Program Features

Bachelor of Arts in Biology
63 semester hours in sciences; 33 semester hours in Biology

Bachelor of Science in Biology
74 Semester Hours

Required Quality Point Average

2.25 or greater for courses in Biological Sciences, for both degrees. At least one half of the credit hours required in Biology must be completed at East Stroudsburg University.

Biology Club

The Biology Club welcomes students who are interested in any aspect of the Biological Sciences. The club's 25-30 members engage in a variety of activities including hosting speakers, trips, hiking, volunteering for university projects, and fundraising. Dr. Matt Wallace is the faculty adviser for the club.

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Tracy Whitford (twhitford@po-box.esu.edu)

Paul Wilson (pwilson@po-box.esu.edu)

Biology - Secondary Education

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program
ESU's programs provide an opportunity to gain the scientific and educational background needed for Secondary Education certification in Biology. The requirements for certification include successful completion of science coursework in Biology, Chemistry, Physics, and Math; along with a number of courses taken through the College of Education, and a culminating semester-long student teaching experience.

Are you interested in...
- Teaching others
- Exploring the world of living things
- Using creativity
- Encouraging others to learn new concepts
- Designing educational programs

Choose Biology — Secondary Education at ESU
- Small advanced class sizes and personalized attention
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Is Biology — Secondary Education a career path for me?

Career Potential
- Teacher of Biology
- Tour Guide
- Educational Publications
- Educational Consultant
- Naturalist

Career Settings
- Public and Private Schools
- Charter Schools
- Zoos
- Environmental Centers
- Science Museums
- Parks

More detailed career information is available from the department.

Bachelor of Science in Biology - Secondary Education

56 semester hours
Coordinator: Professor Kathleen Brunkard

- **Required major courses:** BIOL 114, 115, 200, 331, 340 or 422, 495 or 496, 499 and a minimum of 14 additional semester hours in Biological Sciences except for BIOL 103, 105, 106 (cannot include more than six credits in BIOL 484 plus 486)
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 235; PHYS 131; two courses in Mathematics (one must be MATH 135 or 140; MATH 100, 101, 105 NOT ACCEPTED). (CHEM 234, CHEM 236, and PHYS 132 are strongly recommended). A minimum of a "C" required for courses in the Biological Sciences.
- Required professional education courses: PSED 150, 250, 420, 421, 446, 430, 431; SPED 350; REED 350
- **Required quality point average:** 2.50 or greater for courses in Biological Sciences. At least one half (18) of the credit hours required in biology must be completed at East Stroudsburg University. Student must have minimum of 3.0 overall QPA.
- The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section *The College of Education* in this catalog for specific requirements for admission into teacher education programs.
- Please see the university requirements in this catalog.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education. ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Program Curriculum Plan
(Subject to change by the university without notice)

Biology Courses	**34**
(A minimum of a "C" is required for all courses in Biology)	
(A minimum of 17 credits in Biology must be completed at ESU)	
Required Courses	**20**
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology	3
BIOL 331: Genetics	3
BIOL 340: Animal Physiology or BIOL 422: Plant Physiology	**4**
BIOL 495 Seminar I or BIOL 496: Seminar II	1
BIOL 499 Student Teaching Internship	1
Biology Electives	**14**
Chemistry Courses	**12**
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1
CHEM 124: General Chemistry II	3
CHEM 126: General Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 234: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
Strongly recommended:	
CHEM 236: Organic Chemistry II	
CHEM 236: Organic Chemistry II Lab	
Physics Courses	**4**
PHYS 131: Fundamental Physics I	4

Strongly recommended:

PHYS 132: Fundamental Physics II

Mathematics Courses	**6**
MATH 135 Pre-Calculus or MATH 140 Calculus I	3-4
Plus three additional credits in math	3
(Not accepted: MATH 100, 101, 105)	
Total Of All Sciences	**56**

Plus:

Certification Requirements In Secondary Education

Teacher education program requirements may vary due to new certification regulations that will be implemented in Fall 2009.

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Biology Club

The Biology Club welcomes students who are interested in any aspect of the Biological Sciences. The club's 25-30 members engage in a variety of activities including hosting speakers, trips, hiking, volunteering for university projects, and fundraising.

Dr. Matt Wallace is the faculty adviser for the club.

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Biology - Integrative Animal Behavior

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program
This is an interdisciplinary concentration offered in conjunction with the Psychology Department.

The study of both animal and human behavior is compared and integrated in this concentration to provide students with an overview of behavior in an evolutionary context. This concentration is appropriate for students wishing to continue their behavioral studies in graduate school.

Are You Interested In...
- Zoology
- Psychology
- Investigating animal intelligence
- Animal interactions
- Laboratory/Field experimentation

Choose Biology / Integrative Animal Behavior at ESU
- Small advanced class sizes and personalized attention
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Is Biology / integrative Animal Behavior a career path for me?

Career Potential
- Animal Husbandry
- Teaching
- Graduate Studies
- Veterinary Behaviorist

Career Settings
- Zoo's and Aquariums
- Veterinary Offices
- Nature Centers
- Government Agencies
- Graduate School

More detailed career information is available from the department.

Bachelor of Science in Biology - Concentration: Integrative Animal Behavior

80-83 Semester hours
Coordinator: Professor Terry L. Master

- **Required major courses:** BIOL 114, 115, 200, 331, 340 or 422, 350, 351, 495, 496, and a minimum of 9 additional semester hours in biology at or 300 level or above.
- **Corequisite courses:** PSY 101, 201, 202 or 304, 311, 313 ; CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131, 132; three courses in mathematics or two in mathematics and one course in computer science; MATH 110, 130, 131, 135, 140, 141, 311, 411, CPSC 101 (one MATH must be 135, 140 or 141; MATH 090, 100, 101, and 105 are NOT ACCEPTED).
- A minimum grade of "C" is required in all required, corequisite and directed GE courses
- **Required quality point average:** 2.5 or greater in Biology courses. At least one-half (17) of the credit hours required in biology must be completed at East Stroudsburg University.

This is an interdisciplinary concentration offered in conjunction with the Psychology Department.

Program Curriculum Plan
(Subject to change by the university without notice)

Biology Requirements	**24**
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology	3
BIOL 331: Genetics	3
BIOL 340: Animal Physiology or BIOL 422: Plant Physiology	4
BIOL 350: Animal Behavior	3
BIOL 351: Animal Behavior Laboratory	1
BIOL 495: Seminar I	1
BIOL 496: Seminar II	1
Biology Electives	**9**
BIOL 312: Principles of Neural Science or BIOL 315: Comparative Vertebrate Anatomy	**3-4**
BIOL 413: Predator-Prey Relationips or BIOL 457 Behavioral Ecology	3
plus BIOL 491: Behavioral Ecology Laboratory	1
Corequisites	**13**
Psychology Courses	
PSY 101: Introduction to Psychology	3
PSY 201: Experimental Design in Psychology	3
PSY 212: Comparative Psychology	3
PSY 311: Physiological Psychology plus Lab	4
Psychology Electives	**3-4**
PSY 202: Experimental Psychology or PSY 204 Empirical Foundations of Learning	**3-4**
Corequisite Biology Courses	
Chemistry	**16**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
Physics	**8**
PHYS 131: Fundamental Physics I	4
PHYS 132: Fundamental Physics II	4

Mathematics	**9**
Three courses in Math or two courses in Math plus one Computer Science course NOT ACCEPTED: MATH 100, 101, 105	
MATH 110: General Statistics	3
MATH 130: Applied Algebraic Methods	3
MATH 121: College Trigonometry	3
MATH 131: Applied Calculus	3
MATH 140: Calculus I	3
MATH 141: Calculus II	3
MATH 311: Statistics I	3
MATH 411: Statistics II	3
CPSC 101: PC's and their uses in the Sciences	3

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers. Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

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Biology - Integrative Organismal Biology

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program
The Integrative Organismal Biology concentration emphasizes the study of the ecology, behavior, and evolution of organisms. The concentration is appropriate for students interested in working in fields such as wildlife management, forestry, environmental consulting, natural history, interpretation, environmental education, conservation, museum collections, management, zoo/aquarium collections management and for those planning to attend graduate school in botany, zoology, ecology, behavior, or evolution.

Are you interested in...
- Outdoor activity
- Natural history
- Wildlife management
- Nature interpretation

Choose Biology / Integrative Organismal Biology at ESU
- Small advanced class sizes and
- personalized attention
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Is Biology / Integrative Organismal Biology a career path for me?

Career Potential
- Wildlife Manager
- Interpretive Naturalist
- Teaching
- Conservation of Natural Resources
- Graduate School

Career Settings
- Wildlife Management Departments
- Forestry Departments
- Environmental Consulting Firms
- Natural History Museums
- Environmental Education Centers
- Conservation Organizations
- Museums
- Zoos
- Aquariums

More detailed career information is available from the department.

Bachelor of Science in Biology - Concentration: Integrated Organismal Biology

80-81 Semester hours
Coordinator: Professor Terry L. Master

- **Required major courses:** BIOL 114, 115, 200, 315 or 320, 340 or 422, 407, 495, 496 plus 18 additional SH of biology electives distributed among 4 course clusters, as follows: Fundamental Cluster - 3 SH from BIOL 316, 428, 464, 468; Organismal Cluster - 6 SH from BIOL 220, 221, 325, 350, 416, 421, 425, 442, 448, 450, 451, 462, 466, 493, 494; BIOM 461, 462, 468, 471, 473, 479, 487, 488; Physio./Pathological/Morph. Cluster - 3 SH from BIOL 311, 321, 322, 431, 452, 453, 458; BIOM 403, 464; Ecology Cluster - 6 SH from BIOL 413, 423, 426, 440, 443, 445, 457, 463, BIOM 460, 465, 483
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131, 132; 3 courses in mathematics or 2 in MATH and 1 in computer science, from the following: MATH 135, 140 or 141, plus one additional Math course (MATH 100, 101, and 105 are NOT ACCEPTED); GEOG 120.
- A minimum grade of "C" is required in all required and corequisite courses.
- **Required quality point average:** 2.5 or greater in Biology courses. At least one-half (22) of the credit hours required in BIOL and BIOM must be completed at East Stroudsburg University.

Program Curriculum Plan

(Subject to change by the university without notice)

The concentration provides an integrated and flexible approach to organismal biology using four clusters of courses as electives.

Biology Courses	**26-27**
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology	3
BIOL 315: Comparative Vertebrate Anatomy or BIOL 320: Plant Morphology	**4-3**
BIOL 331: Genetics	3
BIOL 340: Animal Physiology or BIOL 422: Plant Physiology	4
BIOL 407: Organic Evolution	3
BIOL 495: Seminar I	1
BIOL 496: Seminar II	1
Biology Electives	**18**
In addition to the core courses and co-requisite courses, students in the Integrative Organismal Biology concentration are required to take at least 18 hours of additional courses selected from four course clusters as follows:	
1. Principles Courses	3
2. Organismal Courses	6
3. Physiological/Morphological Courses	3
4. Ecology Courses	6
Corequisite Courses	
Chemistry	**16**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 234: Organic Chemistry II	3
CHEM 235: Organic Chemistry Lab	1
CHEM 236: Organic Chemistry II Lab	1

Physics	**8**
PHYS 131: Fundamental Physics I	4
PHYS 132: Fundamental Physics II	4
Geography	**3**
GEOG 120: Physical Geology or GEOG 121: Physical Geology	3
Mathematics and Computer Science	**9**
Three math courses or two math and one computer science. One math course must be MATH 135, 140, or 141 due to physics requirement. Courses not accepted: MATH 90, 100, 101, 105	
MATH 110: General Statistics	3
MATH 130: Applied Algebraic Methods	3
MATH 131: Applied Calculus	3
MATH 135: Pre-Calculus	3
MATH 140: Calculus I	3
MATH 141: Calculus II	3
MATH 311: Statistics I	3
MATH 411: Statistics II	3
CPSC 101: PC's. & Uses in the Sciences	3
Biology Electives	
Cluster #1: Principles Courses	**3**
BIOL 316: Principles of Systematics	
BIOL 428: Zoogeography	
BIOL 464 Population Genetics	
Cluster #2: Organismal Courses	**6**
BIOL 220: Field Botany	
BIOL 221: Field Zoology	
BIOL 325: Ornithology	
BIOL 350: Animal Behavior	
BIOL 416: Parasitology	
BIOL 421: Introductory Mycology	
BIOL 425: Herpetology	
BIOL 442: Biology of Aquatic Macrophytes	
BIOL 448: Biology of Aquatic Insects	
BIOL 450: Field Entomology	
BIOL 451: General Entomology	
BIOL 462: Mammalogy	
BIOL 466: Marine Ichthyology	
BIOL 493: Biology of Tropical Ecosystems	
BIOL 494: Research in Biology	
BIOM 461: Marine Botany	
BIOM 462: Marine Invertebrates	
BIOM 468: Marine Ornithology	
BIOM 471: Biology of the Molluscs	
BIOM 473: Marine Mammals of the Atlantic	
BIOM 479: Ecology of Marine Plankton	
BIOM 487: Tropical Invertebrates	
BIOM 488: Coastal Vegetation	
Cluster #3:	
Physiological/Pathological/Morphological Courses	**3**
BIOL 311: Embryology	
BIOL 321: Plant Pathology	
BIOL 322: Plant Responses to Environmental Stress	
BIOL 431: Ecological Physiology	
BIOL 452: Insect Morphology	
BIOL 453: Insect Physiology	
BIOL 458: Wildlife Diseases	
BIOM 403: Comparative Physiology of Marine Organisms	
BIOM 464: Developmental Biology of Marine Organisms	
Cluster #4: Ecology Courses	**6**
BIOL 413: Predator-Prey Relationships	
BIOL 423: Plant Ecology	
BIOL 426: Wildlife Biology	
BIOL 440: General Aquatic Ecology	
BIOL 443: Stream Ecology	
BIOL 445: Ecology of Fishes	
BIOL 457: Behavioral Ecology	
BIOL 463: Conservation Biology	
BIOM 460: Marine Ecology	
BIOM 465: Management of Wetland Wildlife	
BIOM 483: Wetland Ecology	

- **Note:** *A minimum grade of "C" is required in all required and corequisite courses.*
- **Note:** *BIOM courses are offered by the Marine Science Consortium at Wallops Island, Virginia.*
- **Required quality point average:** *2.5 or greater in Biology courses. At least one-half of the credit hours required in biology must be completed at ESU.*

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

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Biology - Laboratory Medicine

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program

The Bachelor of Science program in Biology with a concentration in Laboratory Medicine prepares students to practice science in this diverse field. The goal of the program is to develop highly literate, compassionate, analytically competent persons who possess extensive contemporary knowledge of medical laboratory skills. Students are strongly urged to participate in scholarly activities such as research, scientific writing, presentation of papers and attendance at scientific meetings.

Are You Interested In...

- Diagnostic pursuits
- Problem-solving

Choose Biology / Laboratory Medicine at ESU

- Small advanced class sizes
- Practical field experiences.
- Qualified, experienced faculty

Is Biology / Laboratory Medicine a career path for me?

Career Potential

- Laboratory scientist

Career Settings

- Physician offices
- Clinics
- Hospitals
- Diagnostic centers

More detailed career information is available from the department.

Bachelor of Science in Biology - Concentration: Laboratory Medicine

83 semester hours

Coordinator: Professor Abdalla M. Aldras

- **Required major courses:** BIOL 111, 112, 114, 115, 200 or 210, 280, 330, 331, 410, 416, 424, 434, 437, 495 or 496.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 317, 371; PHYS 131, 132; and two courses in mathematics or one course in mathematics and one course in computer science (MATH 100, 101, or 105 not accepted).
- **Required quality point average:** 2.25 or greater for courses in Biological Sciences. At least one half (23) of the credit hours required in biology must be completed at East Stroudsburg University.
- Please see the university requirements in this catalog.

Biotech Club

The Biotech Club provides networking opportunities for students interested in all aspects of biological technology, and provides a forum for students to meet and learn about various applications of the science.

Transfer Students

Many students transfer from community colleges and other universities. We welcome your inquiries. More information about credit course transfers is available from the Office of Admissions, 877-230-5547.

Program Curriculum Plan

(Subject to change by the university without notice)

Required Biology Courses	**45**
BIOL 11:1 Human Anatomy and Physiology I	4
BIOL 112: Human Anatomy and Physiology II	4
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology or BIOL 210: Environmental Biology	3
BIOL 280: Laboratory Medicine Seminar	1
BIOL 330: Microbiology	4
BIOL 331: Genetics	3
BIOL 410: Histology	4
BIOL 416: Parasitology	3
BIOL 424: Mechanisms of Disease	3
BIOL 434: Cell Physiology	4
BIOL 437: Immunology	3
BIOL 495: Seminar I or BIOL 496: Seminar II	1
Corequisite Courses	
Chemistry	**24**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
CHEM 315: Biochemistry	3
CHEM 317: Biochemistry Lab	1
CHEM 371: Analytical Chemistry I: Quantitative	4
Physics	**8**
PHYS 131:Fundamental Physics I	4
PHYS 132:Fundamental Physics II	4
Mathematics and Computer Science	**9**
Two courses in Mathematics or one course in Mathematics and one course in Computer Science	
NOT ACCEPTED: MATH 90, 100, 101, 105	
Suggested Courses:	
MATH 110:General Statistics I	3
MATH 135:Pre-Calculus	3
MATH 131:Applied Calculus	3

MATH 140:Calculus with Analytic Geometry I	3
MATH 141:Calculus with Analytic Geometry II	3
CPSC 101: PC's and their uses in sciences	3

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service offer careers.

No matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Faculty

Program Coordinator:
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Professors:
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Biology - Podiatric Medicine Transfer

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program
The Podiatric Medicine Transfer concentration is a seven-year cooperative degree program with Temple University School of Podiatric Medicine (TUSPM). Students accepted into the concentration will spend three academic years at East Stroudsburg University enrolled in the program leading to a B.S. in Biology. Students will receive their B.S. degree in Biology from ESU after successfully completing their first year at TUSPM. TUSPM will award a Doctorate of Podiatric Medicine to students completing the four-year curriculum at TUSPM. Entrance into this concentration is restricted to beginning freshman. Transfer students are ineligible.

Are you interested in...
- Caring for others
- Learning about human anatomy

Choose Biology / Podiatric Medicine Transfer Concentration
- Small advanced class sizes
- Qualified, experienced faculty

Is Biology / Podiatric Medicine Transfer a career path for me?

Career Potential
- Doctor of podiatric medicine

Career Settings
- Hospitals
- Clinics
- Private practice
- *Detailed career information available from the department.*

Bachelor of Science in Biology - Concentration: Podiatric Medicine Transfer

76 semester hours
Coordinator: Professor John S. Smith

- **Required major courses:** BIOL 114, 115, 200, 315, 330, 331, 340, 449, 495, 496, and an additional 9 SH that will be transferred to ESU after the first year at TUSPM.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131 or 161, 132 or 162; 6 SH in Math from the following: MATH 110, 130, 135, 140 and 141; ENGL 203.
- A minimum grade of "C" is required in all required and corequisite courses.
- **Required quality point average:** 2.9 QPA in basic sciences (see list below) and 3.0 overall. At least one half (20) of the credit hours required in biology must be completed at East Stroudsburg University. Field Experience, Internship and Research courses will not be included in the QPA calculations to meet the requirements of this program. No more than six credits of Field Experience, Internship, and Research courses may be applied toward Biology requirements for this degree.

Freshman must meet the following requirements.

Entrance requirements:
- Combined SAT score 1100;
- High school GPA of at least 3.6;
- College-prep curriculum (preferably honors) that includes four years of English, four years of Math, three years of science including one year each of biology, chemistry and physics;
- Class ranking in top 20 percent; and
- Permission of the Pre-Medicine Coordinators

Students who do not meet the above requirements, but whose academic performance (after 30 SH minimum) meet the QPA requirements for the concentration may request permission to transfer into the concentration from the Pre-Medicine Coordinator. Accepted students will be evaluated in their fifth semester by the Pre-Medical Committee. The following are required to qualify for an interview at TUSPM.

- **Completion of basic science coursework:** BIOL 114, 115, CHEM 121, 123, 124, 126, 233, 234, 235, 236, PHYS 131 or 161.
- 2.9 QPA in basic sciences, 3.0 QPA overall excluding BIOL 480, 484, 485, 486, 494, 498.
- **MCAT scores:** 21 minimum total, no scores less than 6.
  - The test must be taken no later than April during the 6th semester (junior year). GRE scores: at least the 50th Percentile in all areas. The test must be taken no later than October prior to the TUSPM application deadline. Students must fill out Supplementary Request for Score Reports to have their MCAT and GRE scores reported directly to the Pre-Medicine coordinator.)
  - Must have participated in TUSPM Summer Internship Program at the end of the sophomore year.
- Signed Buckley Amendment Waiver.
- A favorable recommendation from the Pre-Medicine Committee.
- Enrollment in Spring Semester to complete 99 SH of General Education and Biology requirements (except 9 SH biology electives).

The deadline to apply for early admission at TUSPM is Jan. 1 of the junior year. Students meeting these requirements will qualify for an interview with the TUSPM Admissions Committee, who make final determination of admission. After successful completion of the first year of coursework at TUSPM, ESU will accept transfer of TUSPM credits to complete the B.S. in Biology.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 114: Introductory Biology I	4
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1
ENGL 103: English Composition	3
MATH 140: Calculus I	4
General Education Elective - Social Science	3
Subtotal	**18**

Spring

BIOL 115: Introductory Biology II	4
CHEM 124: General Chemistry II	3

CHEM 126: General Chemistry II Lab	1
ENGL 203: Advanced Composition	3
MATH 140: Calculus I	4
General Education Elective - Social Science	3
Subtotal	**18**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
BIOL 331: Genetics	3
BIOL 330: Microbiology	4
BIOL 340: Animal Physiology	4
Fitness	1
Subtotal	**16**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
BIOL 315: Comparative Vertebrate Anatomy	4
BIOL 200: Ecology	3
PHYS 161: Physics I	4
General Education Elective - Humanities	3
Subtotal	**18**

Junior Year

Fall

PHYS 162: Physics II	4
BIOL 449: Cell Biology	3
BIOL 495: Seminar I	1
CHEM 315: Biochemistry	3
General Education Elective - Humanities	3
Subtotal	**15**

Spring

BIOL 496: Seminar II	3
General Education Elective - Humanities	1
General Education Elective - Humanities	3
General Education Elective - Social Science	3
General Education Elective - Social Science	3
Subtotal	**16**

Senior Year

Fall-Spring

Attend Temple University School of Podiatric Medicine	19
Transfer credits to substitute for 9 SH Biology and free electives	
Subtotal	**19**
Total Credits	**120**

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major professional areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Faculty

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Biology - Pre-Medicine

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program

This is a broad spectrum concentration designed to prepare students for further training as medical professionals in the fields of dentistry, medicine, optometry, osteopathy, podiatry, and veterinary.

Are you interested in...

- Helping others
- Investigating and problem-solving

Choose Biology / Pre-Medicine at ESU

- Small advanced class sizes
- Qualified, experienced faculty
- Personalized attention

Is Biology / pre-medicine a career path for me?

Career Potential

- Doctor of Medicine /Osteopathy / Podiatry
- Doctor of Dentistry
- Doctor of Veterinary Medicine
- Doctor of Optometry

Career Settings

- Hospital
- Private practice
- Clinic
- Not-for-profit organizations

More detailed career information is available from the department.

Bachelor of Science in Biology - Concentration: Pre-Medicine

63 semester hours

Coordinator: Professor John S. Smith

- **Required major courses:** BIOL 114, 115, 200, 315, 330, 331, 340, 449, 495, 496, and a minimum of nine additional semester hours at 300 level or above.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131, 132 or PHYS 161, 162; 6 credits in mathematics from the following: MATH 110, 130, 135, 140, 141 (MATH 100, 101, 105, and 131 are not accepted); ENGL 203 or 204.
- A minimum grade of "C" is required in all required, corequisite and directed GE courses.
- **Required quality point average:** 3.5 QPA in basic sciences (see list below), 3.4 QPA in all BIOL, CHEM, PHYS and MATH courses, 3.3 QPA overall. At least one half (20) of the credit hours required in biology must be completed at East Stroudsburg University. Field Experience, Internship, and Research courses will not be included in the QPA calculations to meet the requirements of this program. No more than six credits of Field Experience, Internship, and Research courses may be applied toward Biology requirements for this degree. This is a broad spectrum program designed to prepare the student for further training as medical professionals in the fields of Dentistry, Medicine, Optometry, Osteopathy, Podiatry, and Veterinary.

Freshmen must meet the following requirements:

Entrance requirements:

- Combined SAT score 1100, ACT Score of 24;
- High school GPA of at least 3.6;
- College-prep curriculum (preferable honors) that includes 4 years of English, 4 years of Mathematics, 3 years of science including 1 year each of biology, chemistry and physics;
- Class ranking in top 20 percent; and
- Permission of the Pre-Medicine Coordinator

Students who do not meet the above requirements, but whose academic performance (after 30 SH minimum) meet the QPA requirements for the concentration may request permission to transfer into the concentration from the Pre-Medicine Coordinator. Students will be evaluated after their junior year by the Pre-Medicine Committee. Students transferring from other schools or from other majors/concentrations should meet the same academic standards for college coursework.

The following are required to remain in the concentration:

- Completion of basic science coursework: BIOL 114, 115, CHEM 121, 123, 124, 126, 233, 234, 235, 236, PHYS 131 (or 161), 132 (or 162).
- 3.5 QPA in basic sciences, 3.4 QPA in all BIOL, CHEM, PHYS and MATH courses, 3.3 QPA overall excluding BIOL 480, 484, 485, 486, 494, 498.
- Take the Medical College Admission Test.
- The test should be taken in April but may be taken in August. Students must fill out a Supplementary Request for Score Reports to have their MCAT scores reported directly to the Pre-Medicine coordinator.
- Interview with the Pre-Medicine Committee in the spring of the junior year, presenting a resume, transcripts, letters of recommendation, a signed Buckley Amendment Waiver.

Students who do not meet the minimal standards for evaluation will not earn a favorable recommendation from the Pre-Medicine committee and will be placed on probationary status and advised to withhold their applications to medical schools for one year, during which the student has the opportunity to remedy any deficiencies. Students wishing to earn a favorable Committee evaluation will limit the number of courses retaken to three with no more than one retake per course.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 114: Introductory Biology I	4
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1
ENGL 103: English Composition	3
MATH 140: Calculus I	4
Fitness Elective	1
Subtotal	**16**

Spring

BIOL 115: Introductory Biology II	4
CHEM 124: General Chemistry II	3

CHEM 126: General Chemistry II Lab	1
ENGL 203: English Composition	3
MATH 141: Calculus II	4
Subtotal	**15**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
BIOL 331: Genetics	3
BIOL 330: Microbiology	4
General Education Elective - Social Science	3
Fitness Elective	1
Subtotal	**15**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab I	1
BIOL 200: General Ecology	3
PHYS 161: Physics I	4
General Education Elective - Social Science	3
CHEM 234: Organic Chemistry II	3
Subtotal	**14**

Junior Year

Fall

PHYS 162: Physics II	4
BIOL 449: Cell Biology	3
BIOL 300-400 Biology Elective	3
CHEM 315: Biochemistry	3
General Education Elective - Humanities	3
Subtotal	**16**

Spring

BIOL 315: Comparative Vertebrate Anatomy	4
BIOL 300-400 - Biology Elective	4
General Education Elective - Humanities	3
General Education Elective - Social Science	3
Subtotal	**14**

Senior Year

Fall

BIOL 449: Cell Biology	3
BIOL 495: Seminar I	1
CHEM 315: Biochemistry	3
BIOL 300-400 Biology Elective I	3
General Education Elective - Social Science	3
General Education Elective - Humanities	3
Subtotal	**14-15**

Spring

BIOL 340: Animal Physiology	4
BIOL 496: Seminar II	1
General Education Elective - Humanities	3
General Education Elective - Social Sciences	3
Free Elective	3
Subtotal	**14**
Total Credits	**120**

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major professional areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Faculty

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Biology - Pre-Physical Therapy

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program

Students entering this concentration are declared biology majors, but direct their class work and other activities toward gaining entrance into schools which offer post-baccalaureate programs leading to a physical therapy license. Entrance into physical therapy schools is highly competitive, and it is the purpose of ESU's concentration to provide students with a structured curriculum and the rigorous background they need to gain entrance to physical therapy graduate schools. ESU has an established internship program with several physical therapy clinics, providing students with at least 300 hours of experience working alongside a practicing physical therapist.

Are you interested in...

- Helping others
- Exercising
- Advocating good health practices

Choose Biology / Pre-Physical Therapy at ESU

- Small advanced class size
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Is Biology / Pre-Physical Therapy a career path for me?

Career Potential

- Physical therapist
- Rehabilitative therapist

Career Settings

- Rehabilitation centers
- Hospitals
- Medical clinics

More detailed career information is available from the department

Bachelor of Science in Biology - Concentration: Pre-Physical Therapy

74 semester hours

Coordinator: Professor Richard F. Pekala

- **Required major courses:** BIOL 111,112, 114, 115, 200, 331, 340, 410, 495, 496 and a minimum of eleven (11) additional semester hours in Biological Sciences except for BIOL 103, 105, 106 (cannot include more than six credits in BIOL 484 plus 486)
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131, 132; and three courses in mathematics or two courses in mathematics and one course in computer science (MATH 100, 101, or 105 not accepted).
- **Required quality point average:** 2.25 or greater for courses in Biological Sciences. At least one half (22) of the credit hours required in biology must be completed at East Stroudsburg University.
- Please see the university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Required Biology Courses	**32**
BIOL 111: Human Anatomy and Physiology I	4
BIOL 112: Human Anatomy and Physiology II	4
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 200: General Ecology	3
BIOL 331: Genetics	3
BIOL 340: Animal Physiology or BIOL 422: Plant Physiology	4
BIOL 410: Histology	4
BIOL 495: Seminar I	1
BIOL 496: Seminar II	1
Biology Electives	**11**
Corequisite Courses	
Chemistry	**16**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 234: Organic Chemistry II	3
CHEM 235: Organic Chemistry I Lab	1
CHEM 236: Organic Chemistry II Lab	1
Physics	**8**
PHYS 131: Fundamental Physics I	4
PHYS 132: Fundamental Physics II	4
Mathematics and Computer Science	**9**
Three courses in mathematics or two courses in mathematics and one course in computer science	
Not Accepted: MATH 90, 100, 101, 105	
Suggested Courses:	
MATH 110: General Statistics I	3
MATH 135: Pre-Calculus	3
MATH 131: Applied Calculus	3
MATH 140: Calculus with Analytic Geometry I	3
MATH 141: Calculus with Analytic Geometry II	3
MATH 316 Biometry	3
CPSC 101: PC's and their uses in the Sciences	3

For more information, contact the department by calling 570-422-3725 or visit our website www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing

and illustrations as well as some elements of government service offer careers.

No matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Faculty

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Biology - Pre-Physician Assistant

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program

This concentration prepares students for post-graduate studies leading to licensing as a physician assistant. Students complete a Biology major with a concentration in Pre-PA studies, which includes additional requirements intended to provide background necessary for admission into a graduate program. Students also obtain hundreds of hours of clinical experience outside the classroom.

Are you interested in...

- Health care
- Working with people
- Helping others

Choose Biology / Pre-Physician Assistant at ESU

- Small advanced class size
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Is Biology / Pre-Physician Assistant a career path for me?

Career Potential

- Physician Assistant

Career Settings

- Physician's office
- Hospital
- Medical clinic
- Private care facility

More detailed career information is available from the department.

Bachelor of Science in Biology - Concentration: Pre-Physician Assistant

77 semester hours

Coordinator: Professor Jennifer L. White

- **Required major courses:** BIOL 111, 112, 114, 115, 200, 330, 331, 340, 410, 495, 496, and an additional 5 semester hours of biology electives except BIOL 103, 105, 106.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131 or 161, 132 or 162; three courses in Mathematics or two courses in Mathematics and one in Computer Science (MATH 100, 101, 105 not accepted)
- A minimum grade of "C" is required in all required, corequisite and directed GE courses.

Required quality point average: 3.3 or greater in required and corequisite courses (excluding BIOL 480, 484, 485, 486, 494, 498) , 3.0 or greater overall. At least one half (22) of the credit hours required in biology must be completed at East Stroudsburg University.

Students will be evaluated at the end of their junior year (after the sixth semester). Transfer students must meet the same academic standards for acceptance and college coursework.

Freshmen must meet the following requirements:

Entrance requirements:

- Combined SAT score of 1100 or ACT Score of 24;
- High school GPA of at least 3.0;
- College-prep curriculum that includes four years of English, four years of mathematics, three years of science including biology and chemistry.
- Class ranking in the top 40 percent; and
- Permission of the Pre-PA coordinator.
- Students will be evaluated after their junior year by the Pre-PA coordinator.

The following are required to remain in the program:

- Completion of the following required coursework: BIOL 114, 115; CHEM 121, 123, 124, 126, 233, 234, 235, 236; PHYS 131 or 161, 132 or 162; ENGL 162 or 203 or 204; PSY 100, 101; MATH 110, and 135 or 140.
- A 3.3 QPA in required and corequisite coursework, 3.0 QPA overall.

Qualified students choosing to remain in the concentration must:

- Complete a diversity of clinical experiences, with hundreds of hours completed before the senior year.
- Maintain the required GPA.
- Interview with the Pre-PA coordinator in the spring of the junior year, to discuss grades, the application process, clinical experience, letters of recommendation, comments of internship sponsors, and registration for spring classes to complete graduation requirements.

Students may receive a favorable recommendation from the Pre-PA coordinator by the application deadlines of area PA programs if they adhere to the above schedule. At the discretion of the Pre-PA coordinator, a student who fails to meet the standards for retention after the junior year may be placed on probationary status for one semester, during which all standards must be met for continuance. A minimum of 500 hours of clinical experience (direct patient care, shadowing, health related) must be completed by graduation. This may be accomplished through an internship (BIOL 486) subject to approval by the pre-PA coordinator.

Health Profession Courses

Students should plan to complete general chemistry, organic chemistry, physics, general biology, and anatomy and physiology by the close of the junior year. Other courses recommended for completion by this time are genetics, animal physiology, histology, comparative anatomy, ecology, microbiology, statistics, and pre-calculus..

Clinical Experience

Students will be evaluated at the end of their junior year. Several hundred hours of direct patient care or health-related experience in a hospital, clinic, senior care facility, etc., is required by the time of application to graduate programs.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 114: Introductory Biology I	4
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1

ENGL 103: English Composition	3
MATH 110: General Statistics	3
Subtotal	**14**

Spring

BIOL 115: Introductory Biology II	4
CHEM 124: General Chemistry II	3
CHEM 126: General Chemistry II Lab	1
ENGL 162/203 GE: (A) Literary Analysis/Advanced Composition	3
MATH 135: Pre-Calculus	3
General Education Elective - Social Science	3
Subtotal	**17**

Sophomore Year

Fall

BIOL 111: Human Anatomy and Physiology I	4
CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
BIOL 330: Microbiology*	4
CPSC 101: PC's and Their Uses in Science	3
Subtotal	**15**

Spring

BIOL 112: Human Anatomy and Physiology II	4
CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
General Education Elective - Humanities	3
BIOL 200: Ecology	3
Fitness Elective	1
Subtotal	**15**

Junior Year

Fall

PHYS 131: Fundamental Physics I	4
BIOL 331: Genetics	3
BIOL Biology Elective	3
General Education Elective - Social Science	3
General Education Elective - Humanities	3
Subtotal	**16**

Spring

PHYS 132: Fundamental Physics II	4
BIOL 340: Animal Physiology	4
BIOL Biology Elective	3
PSY 100: General Psychology	3
Fitness Elective	1
Subtotal	**15**

Senior Year

Fall

BIOL 410: Histology*	4
BIOL Biology Elective	3
BIOL 495: Seminar I	1
General Education Elective - Humanities	3
General Education Elective - Social Science	3
Subtotal	**14**

Spring

BIOL Biology Elective	4
BIOL 496: Seminar II	1
General Education Elective - Humanities	3
General Education Elective - Social Science	3
General Education Elective - Social Science	3
Subtotal	**14**
Total Credits	**120**

Biology electives – at least 5 credits; *Course is typically offered once per year.

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

Faculty

Program Coordinator:
Jennifer White (jwhite@po-box.esu.edu)

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Biotechnology

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 12
570-422-3725.....www.esu.edu/biol

About the Program
This program developed as a response to student interest and the need for qualified, well-trained graduates in the emerging field of biotechnology, and is one of the first of its kind in Pennsylvania. It serves the need of northeast Pennsylvania, northwestern New Jersey and the Lehigh Valley, where there is an accelerating growth of biotechnology clusters. This gives the department a chance to be a leader in this field. The powerful tools of biotechnology have revolutionized medicine, agriculture, and environmental protection.

Are you interested in...
- Biology
- Technology

Choose Biotechnology at ESU
- Small advanced class size
- Well-equipped laboratories
- Practical field experiences
- Qualified, experienced faculty

Is Biotechnology a career path for me?

Career Potential
- Biotechnologist
- DNA researcher
- Quality control manager

Career Settings
- Hospitals
- Pharmaceutical companies
- Universities and colleges

More detailed career information is available from the department.

Bachelor of Science in Biotechnology

85 semester hours
Coordinator: Professor Abdalla M. Aldras

- **Required major courses:** BIOL 114, 115, 200, 281, 330, 331, 340 or 422, 380, 430, 437, 439, 465, 477, 495, 496, and a minimum of seven additional semester hours from BIOL 410, 411, 414, 419, 424, 429, 434, 449, 480.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 317; three courses in MATH or two courses in MATH and one in CPSC (MATH 090, 100, 101, or 105 not accepted); PHYS 131, 132 or PHYS 161,162.
- **Required quality point average:** Minimum QPA of 2.50 overall
- Please see the university requirements in this catalog.

Theory and practical training
The program is designed to provide students with an in-depth experience and understanding of methods, techniques and instrumentation used in biotechnology. Applications are broad, and include human health, plant and animal agriculture, and environmental bioremediation. The core courses of this program combine theory and practical training. Techniques such as electrophoresis, ELISA, western blotting, PCR, DNA fingerprinting, cell culture, transformation and monoclonal antibody production will be covered

Transfer Students
Many students transfer from community colleges and other universities. We welcome your inquiries. More information about credit course transfers is available from the Office of Admissions, 877-230-5547.

Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 114: Introductory Biology I	4
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1
MATH 135: Pre-Calculus	3
General Education	3
Subtotal	**14**

Spring

BIOL 115: Introductory Biology II	4
CHEM 124: General Chemistry II	3
CHEM 126: General Chemistry II Lab	1
ENGL 103: English Composition	3
General Education Elective	3
Subtotal	**14**

Sophomore Year

Fall

BIOL 331: Genetics	3
BIOL 281: Introduction to Biotechnology	3
CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
General Education	3
Fitness	1
Subtotal	**15**

Spring

BIOL 200: General Ecology	3
CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
MATH 110: St™atistics	3
General Education	6
Subtotal	**16**

Junior Year

Fall

PHYS 131: Fundamental Physics I	4
BIOL 330: Microbiology	4
BIOL 340: Animal Physiology or BIOL 422: Plant Physiology	4
General Education	3
Subtotal	**15**

Spring

PHYS 132: Fundamental Physics II	4
BIOL 430: Applied Microbiology	4
BIOL Biology Elective	3-4
BIOL 380: Cell Culture	2
General Education	3
Subtotal	**16-17**

Senior Year

Fall

BIOL 495: Seminar I	1
BIOL Biology Elective	3-4
CHEM 315: Biochemistry	3
CHEM 317: Biochemistry I Lab	1
General Education	6
Subtotal	**14-15**

Spring

CPSC 101: PC's and Their Uses in Science	3
BIOL 437: Immunology	3
BIOL 465: Immunology Lab	1
BIOL 439: Molecular Biology	3
BIOL 477: Molecular Biology Lan	1
BIOL 496: Seminar II	1
General Education	3
Fitness	1
Subtotal	**16**
Total Credits	**120**

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

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Environmental Studies

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Programs
A Bachelor of Arts degree in Environmental Studies is a good choice for those who plan to enter fields such as law, journalism, public policy or business. The course requirements for a Bachelor of Arts in Environmental Studies leave more room for a double major in a non-science field. A Bachelor of Science in Environmental Studies is the best choice for those who plan on working as environmental consultants, in conservation districts, state and federal environmental agencies, non-governmental organizations or plan on attending graduate school.

Are you interested in...
- Protecting the environment
- Observing the relationships between living things

Choose Environmental Studies at ESU
- Small advanced class size
- State-of-the-art field equipment
- Practical field experiences
- Qualified, experienced faculty

Is environmental studies a career path for me?

Career Potential
- Environmental coordinator
- Environmental advocacy
- Soil and water conservationist
- Environmental consultant
- Waste water management
- Wildlife ecology

Career Settings
- Government
- Energy firms
- Construction business
- Law firms
- Consulting firms

More detailed career information is available from the department.

Bachelor of Arts in Environmental Studies

74-84 semester hours
Coordinator: Professor Paul Wilson

- **Required major courses:** BIOL 114, 115, 210, 463, 484, 497, two of the following (BIOL 200, 220, 221), and five additional courses in a single discipline numbered 300 or higher, approved by the adviser.
- **Corequisite courses:** CHEM 108 (or CHEM 121, 123), CPSC 101, MATH 110, PHYS 117 or 118, GEOG 120, 121, CMST 111, ENGL 177, POLS 211, 314, HLTH 230
- **Additional requirements:** A maximum of 6 hours of internship credit (BIOL 484) will be applied to the degree.
- **Required quality point average:** 2.25 or greater for courses in Biological Sciences. At least one half (14) of the credit hours in biology must be completed at East Stroudsburg University.
- Please see the Foreign Language Competency Requirement.
- Please see the university requirements in this catalog.

Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 114: Introductory Biology I	4
CHEM 108: Environmental Chemistry or CHEM 121+123 General Chemistry I and Lab	3-4
ENGL 103: English Composition	3
GEOG 120: Physical Geography	3
Subtotal	**13-14**

Spring

BIOL 115: Introductory Biology II	4
BIOL 210: Environment Biology	3
MATH 110: General Statistics	3
Fitness Elective	1
PHYS 117: Energy or PHYS 118: Solar Energy	3
Subtotal	**14**

Sophomore Year

Fall

BIOL 200: General Ecology or BIOL 221: Field Zoology	3
CMST 111: Speech	3
ENGL 177: Environmental Literature	3
Foreign Language	3
General Education Elective - Humanities	3
Subtotal	**15**

Spring

BIOL 200: General Ecology or BIOL 221: Field Zoology	3
General Education Elective – Social Science	3
Biology elective (upper division)	3-4
POLS 211: American Government	3
General Education Elective - Humanities	3
Subtotal	**15-16**

Junior Year

Fall

Biology Elective (upper division)	3-4
General Education Elective - Humanities	3
General Education Elective - Social Science	3
POLS 314: State and Local Government	3
Free Elective	3
Subtotal	**15-16**

Spring

BIOL 484: Environmental Studies Field Experience and Internship	1-10
General Education Elective - Social Science	3

Fitness Elective	1
Subtotal	**7-14**

Senior Year

Fall

Biology Elective (upper division)	3-4
Biology Elective (upper division)	3-4
BIOL 497 Environmental Studies Seminar	1
Free Elective	3
GEOG 121: Physical Geology	3
Subtotal	**13-15**

Spring

Biology Elective (upper division)	3-4
BIOL 463 Conservation Biology	4
HLTH 230 Community Health	3
Free Elective	3
Free Elective	3
Subtotal	**16-17**
Total Minimum Credits	**109**

Bachelor of Science in Environmental Studies

48-54 semester hours

Coordinator: Professor Paul Wilson

- **Required major courses:** BIOL 114, 115, 210, 322, 330, 463, 484, 497, one field ecology course (BIOL 200, 220, or 221), one plant course (BIOL 320, 422, 423, or BIOM 461), one aquatic course (BIOL 440, 443, 446, or 460), one animal course (BIOL 325, 333, 425, 448, 451, 462 or 466) and one additional course at the 300+ level approved by the adviser.
- **Co-requisite courses:** CHEM 121, 123, 124, 126, 373; MATH 110; PHYS 117 or 118, GEOG 120, 121, 341, CMST 111, POLS 211.
- Additional Requirements: A maximum of 10 hours of internship credit (BIOL 484) will be applied to the degree.
- **Required quality point average:** 2.25 or greater for courses in Biological Sciences. At least one half (17) of the credit hours in biology must be completed at East Stroudsburg University.
- Please see the Foreign Language Competency Requirement.
- Please see the university requirements in this catalog.

Note: Students planning to attend graduate school in this field should also take CHEM 233, 234, 235, 236; PHYS 131, 132. These programs offer a unique opportunity to select individualized programs from a wide variety of electives in several disciplines. Each student is required to complete a field experience or internship in the senior year. Credits for internships are arranged individually with one credit earned for each full time (40 hour) work week. Interns have served with park departments, state and federal wildlife agencies, water and sewer treatment plants, and a variety of government conservation agencies both in the United States and abroad.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 114: Introductory Biology I	4
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1
ENGL 103: English Composition	3
CPSC 101: Personal Computers and Their Uses in Science	3
Fitness Elective	1
Subtotal	**15**

Spring

BIOL 115: Introductory Biology II	4
CHEM 124: General Chemistry II	3
CHEM 126: General Chemistry II Lab	1
BIOL 210: Environmental Biology	3
MATH 110: General Statistics	3
General Education Elective - Humanities	3
Subtotal	**17**

Sophomore Year

Fall

BIOL 200, 220 or 221 – Field Course	3
CMST 111: Speech	3
GEOG 120: Physical Geography	3
General Education Elective - Social Science	3
General Education Elective - Humanities	3
Subtotal	**15**

Spring

GEOG 121: Physical Geography	3
General Education Elective – Social Science	3
Biology Elective (plant, aquatic, animal or field)	3-4
POLS 211: American Government	3
General Education Elective - Humanities	3
Subtotal	**15-16**

Junior Year

Fall

Biology Elective (plant, aquatic, animal or field)	3-4
General Education Elective - Humanities	3
General Education Elective - Social Science	3
PHYS 117: Energy or PHYS 118: Solar Energy	3
Free Elective	3
Subtotal	**15-16**

Spring

BIOL 484: Environmental Studies Field Experience and Internship and/or BIOL 494: Research in Biology	1-6
BIOL 322: Plant Responses to Environmental Stress	3
Fitness Elective	1
GEOG 341: Geographic Information System	3
Free Elective	3

Subtotal	**11-16**

Senior Year

Fall

Biology Elective (plant, aquatic, animal or field)	3-4
BIOL 330: Microbiology	3-4
BIOL 497: Environmental Studies Seminar	1
Free Elective	3
Free Elective	3
Subtotal	**14-15**

Spring

Biology Elective (upper division)	3-4
BIOL 463: Conservation Biology	4
CHEM 373: Environmental Quality Chemistry	4
Free Elective	3
Subtotal	**14-15**

Total Minimum Credits	**116**

For more information, contact the department by calling 570-422-3725 or visit our website www.esu.edu/biol

Professional Opportunities in Biology

A degree with a major in biology may be of value in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service offer careers.

No matter what vocation, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

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Marine Science

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program

The Bachelor of Science in Marine Science program offers field courses at the Marine Science Consortium at Wallops Island, Va. This degree prepares students for opportunities in government, aquaria, consulting, research laboratories, and to pursue advanced degrees**.**

Are you interested in...

- Protecting the environment
- Marine life
- Conducting research
- Organizing and maintaining data
- Performing experiments

Choose Marine Science at ESU

- Small advanced class sizes
- State-of-the-art field equipment
- Practical field experiences
- Protecting the environment

Is Marine Science a career path for me?

Career Potential

- Marine biology
- Oceanography
- Aquaculture

Career Settings

- Fisheries
- Conservations
- Aquariums
- Local and state government

More detailed career information is available from the department.

Bachelor of Science in Marine Science

63 semester hours

Coordinator: Professor James C. Hunt

- **Required major courses:** BIOL 114, 115, 288 (two semester hours), 460, 466, 467, 474, 498, and four courses in Marine Science taken at the Wallop's Island field station. No more than six credits of internship may be applied toward Biology requirements for this degree.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 235; GEOG 121; MATH 110; PHYS 131, 132.
- **Other Requirement**: At least one half (19) of the credit hours required in biology must be completed at East Stroudsburg University.
- Please see the university requirements in this catalog.

This is a directed degree program whereby students have an opportunity to acquire firsthand knowledge via field experiences at the Wallops Island Marine Station as well as in-depth training in the theoretical aspects of marine science.

Field Experience

Students have an opportunity to acquire firsthand knowledge via field experiences at the Marine Science Consortium at Wallops Island, Va., which maintains labs, which has classrooms, research vessels and equipment for studies of marine and coastal biology.

Program Curriculum Plan

(Subject to change by the university without notice)

Biology Courses	**37**
Required Courses	**25**
BIOL 114: Introductory Biology I	4
BIOL 115: Introductory Biology II	4
BIOL 288: Investigations in Marine Science	2
BIOL 467: Fish Health Management	3
BIOL 460: Marine Ecology	3
BIOL 462: Marine Invertebrates or BIOL 466: Marine Ichthyology	3
BIOL 474: Introduction to Oceanography	3
BIOL 498: Research in Marine Science	3
Biology Electives	**12**
Four courses taken at our field station at Wallops Island, Va. Courses may include: Marine Biology, Behavior of Marine Organisms, Marine Botany, Marine Ichthyology, Marine Geology, Field Methods in Oceanography, Physiology of Marine Invertebrates, Coastal Vegetation, Tropical Invertebrates, Wetland Ecology, Marine Micropaleontology, Chemical Oceanography, Ecology of Marine Plankton, Anatomy of Marine Chordates, Marine Microbiology, Marine Ornithology, Marine Biology Cruise, and Marine Invertebrates.	
Corequisite Courses	
Chemistry	**12**
CHEM 121: Introductory Chemistry I	3
CHEM 123: Introductory Chemistry I Lab	1
CHEM 124: Introductory Chemistry II	3
CHEM 126: Introductory Chemistry II Lab	1
CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
Physics	**8**
PHYS 131: Fundamental Physics I	4
PHYS 132: Fundamental Physics II	4
Mathematics and Computer Science	**3**
MATH 110: General Statistics I	3
Geography	**3**
GEOG 121: Physical Geology	3
Recommended Courses	
CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
MATH 135: Pre-Calculus	3

MATH 131: Applied Calculus	3
MATH 140: Calculus with Analytic Geometry I	3
MATH 141: Calculus with Analytic Geometry II	3
CPSC 101: PC's and their uses in Sciences	3

NOTE: Most Marine Science majors earn a dual major in one of the following majors: Biology, Environmental Studies, Biochemistry, Chemistry, or Computer Science. It is also recommended to take two or more courses in physiology, genetics, and/or biochemistry.

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers. Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

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Medical Technology

College of Arts and Sciences

The Faculty of Science
Moore Biology Hall, Room 127
570-422-3725.....www.esu.edu/biol

About the Program
The Medical Technology program, also known as Clinical Laboratory Science, prepares students in fundamental and clinical laboratory sciences for careers in diagnostic laboratories. The medical technologist uses state-of-the-art technology to perform analysis of patient samples (blood and other materials) that are useful in detecting and/or treating diseases. Graduates of this program have a firm foundation enabling them to pursue graduate study for many advanced or alternative career paths. The curriculum includes 98 credit hours (three academic years) at ESU followed by a calendar year internship in a hospital clinical program accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Are you interested in...
- Versatility
- Mobility

Choose Medical Technology at ESU
- Small advanced class sizes
- Well-equipped laboratories
- Qualified, experienced faculty
- Personalized attention

Is Medical Technology a career path for me?

Career Potential
- Medical technologist

Career Settings
- Physician offices
- Clinics
- Hospitals
- Diagnostic centers

More detailed career information is available from the department.

Bachelor of Science in Medical Technology

62 semester hours
Coordinator: Professor Abdalla M. Aldras

- **Required major courses:** BIOL 111 and 112; 114, 280, 330, 410, 416, 424, 434, 437.
- **Corequisite courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 317; (one of the following courses, BIOL 312, 410, 414, 419, 424 429, 435, 436, or 492 may be substituted for CHEM 315 and 317); PHYS 131, 132; and CPSC 101, MATH 110,
- **Other Requirements:** At least one half of the credit hours required in biology must be completed at East Stroudsburg University.
- Please see the university requirements in this catalog.

This degree program is designed for students who are preparing for careers in diagnostic laboratory medicine. It also prepares students for other roles in the health professions as well as the background necessary to pursue studies beyond the baccalaureate degree. A strong background in science as well as a personal interview is necessary for final admission.

Enrollment is limited due to the availability of clinical facilities. Students are admitted to the program after completion of the freshman year with a quality point average of 2.5. The curriculum includes three academic years at East Stroudsburg University and a 12-month internship in a hospital laboratory approved by the American Society of Clinical Pathologists and the American Medical Association. The Bachelor of Science degree with a major in Medical Technology may be awarded upon completion of a minimum of 98 semester hours at East Stroudsburg University and the 12-month internship (32 semester hours allowed for this work).

The curriculum
The curriculum includes three academic years at ESU and a 12-month internship in a hospital laboratory approved by the American Society of Clinical Pathologists and the American Medical Association.

Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 111: Human Anatomy and Physiology I	4
BIOL 114: Introductory Biology I	4
CHEM 121: General Chemistry I	3
CHEM 123: General Chemistry I Lab	1
General Education	3
Subtotal	**15**

Spring

BIOL 112: Human Anatomy and Physiology II	4
CHEM 124: General Chemistry II	3
CHEM 126: General Chemistry II Lab	1
General Education	6
Subtotal	**14**

Sophomore Year

Fall

BIOL 330: Microbiology	4
CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
ENGL 103: English Composition	3
General Education	3
Fitness Elective	1
Subtotal	**15**

Spring

BIOL 331: Genetics	3
CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
General Education	6
MATH 110: General Statistic	3
Subtotal	**16**

Junior Year

Fall

BIOL 416: Parasitology	3

BIOL 424: Mechanisms of Disease I	3
General Education	6
Fitness Elective	1
Subtotal	**13**

Spring

BIOL 437: Immunology	3
BIOL 439: Molecular Biology or BIOL 449: Cell Biology	3
CPSC 101: PC's and thier uses in sciences	3
General Education	6
Subtotal	**16**

Senior Year

Fall-Spring

Twelve-month internship in a hospital laboratory approved by the American Society of Clinical Pathologists and the American Medical Association	30-32
Subtotal	**30-32**
Total Credits	**118-120**

For more information, contact the department by calling 570-422-3725 or visit www.esu.edu/biol

Professional Opportunities in Biology

The major vocational areas in which a degree with a major in biology may be of value are in academic biology, the health professions, commercial research opportunities, technical sales and management; in addition, certain forms of law practice, technical writing, editing and illustrations as well as some elements of government service, particularly those dealing with both foreign and domestic resource management, offer careers.

Finally, no matter what vocation the graduate may elect to enter, a background in science will provide certain analytical, technical, and communication skills that are useful for a lifetime.

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Course Descriptions

BIOL 103 GE: Forensic Biology (3)

This course is a study of the application of biology to solve crimes. The student will learn the significance of biological samples of forensic relevance, such as blood, semen, hair, and saliva in terms of their biological properties and the evidential information that can be obtained from them. The course will explore the applications of molecular biology and genetics in areas such as DNA profiling, protein polymorphisms and immunological tests. The course will also investigate the roles of entomology in post mortem examinations, forensic botany, and palynology. For non-majors only.

BIOL 104 GE: Human Ecology (3)

This course is an ecological study of human impact on the environment; how past and present practices by man will influence the planet's future; discussion of population, pollution, and attitudes affecting ecosystem balance and stability; special interest groups or action groups may be organized at the option of the instructor.

BIOL 105 GE: General Biology (3)

This course is an introduction to a broad spectrum of biological topics and to the scientific methods used in studying biology. The course will investigate the structure and function of animals and plants and will include information on current topics such as genetics, ecology, and evolution. This course cannot be used for credit toward a biology major.

BIOL 106 GE: Insects and Human Life (3)

This course is designed to teach the principles of biological science by utilizing examples of insects and their interactions with humans. Interesting examples of insects throughout the world will be cited in discussion of biological evolution, morphology, physiology, diversity, systematics, behavior, reproduction, and ecological interactions. Live and preserved specimens will be used. This course cannot be used for credit toward a Biological Sciences major.

BIOL 111 GE: Human Anatomy and Physiology I (4)

This is an introductory course in Human Anatomy and Physiology for Physical Education, Nursing, and Pre-Med majors. Systems of the body will be covered from a structural and functional standpoint. The topics covered in lab and lecture will be epithelium, connective tissues, bones, muscles, nervous system, special senses, and the endocrine glands.

BIOL 112 GE: Human Anatomy and Physiology II (4)

This is the continuation of the course Human Anatomy and Physiology I and is designed for Nursing, Physical Education, and Pre-Med majors. Additional systems of the body will be covered from a structural and functional standpoint. Topics covered will be the cardiovascular system, respiratory system, digestive system, urinary system, reproductive system, and the fetal systems. Prerequisite: BIOL 111.

BIOL 114 GE: Introductory Biology I (4)

Introductory Biology I is a comprehensive course in biology which covers basic concepts in classical and modern biological thought. Topics focus on the central principles of structure and function of the cell, metabolism, genetics, protein synthesis, and concepts of evolution and ecology.

BIOL 115 GE: Introductory Biology II (4)

Introductory Biology II is a continuation of Introductory Biology I. Topics to be discussed include classification schemes, plant and animal anatomy, and systemic physiology. The course has been designed to provide the student with a sound foundation in Biology for advanced studies in this field. Prerequisite: BIOL 114.

BIOL 200 General Ecology (3)

This course is a study of interrelationships of plants and animals and their environments; the influences of heat, light, air, soil, water, and biotic factors; associations and successions; habitat types; populations, equilibrium, and predator-prey relationships. Prerequisites: BIOL 114, 115.

BIOL 210 GE: Environmental Biology (3)

This course is required for Environmental Studies majors and is also intended for those with concentrations in the field of medical studies. It will follow an ecosystems approach to ecology as related to humans. Emphasis will be placed on discrete ecological principles which affect local and global environments. Prerequisite: BIOL 104 or BIOL 114.

BIOL 220 Field Botany (3)

This course includes field studies in identification and classification of native and cultivated plants of the area and special instruction in the use and preparation of keys to the identification of herbs, shrubs, trees, ferns, bryophytes, and algae. Phylogenetic and taxonomic relationships of the plant groups will be explored.

BIOL 221 Field Zoology (3)

This course is a general study of animal groups found in the region; field technique, trapping, tagging, and population studies; amphibia, reptiles, birds of prey, and mammals. Class discussion of wildlife conservation and man's role in nature are included. Prerequisites: BIOL 114, 115.

BIOL 280 Laboratory Medicine Seminar (1)

Selected topics in Laboratory Medicine will be discussed and analyzed by the students. Emphasis is placed upon recent developments, and students are expected to orally report upon at least one contemporary aspect of Laboratory Medicine. Invited speakers as well as field trips to various laboratory facilities will be an integral part of the course. Prerequisites: BIOL 102, 114, 115.

BIOL 281 Introduction to Biotechnology (3)

This course is intended to introduce the students to the fundamental concepts needed for a thorough understanding of biotechnology and its applications. It provides an overview of the objectives, techniques, and problems related to the application of biotechnology in different fields. Major subjects addressed include medical biotechnology, pharmaceutical development, agriculture applications, and environmental applications. Also discussed will be ethical issues and their implication in the new biotechnological advances. Updates to the new breakthroughs and discoveries will be emphasized. Prerequisites: BIOL 114, 115.

BIOL 288 Investigations in Marine Science (1)

Selected topics in Marine Science will vary depending on the individual needs of the students and the relevant literature. The course may be repeated, for which additional work will be required.

BIOL 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the college curriculum.

BIOL 310 Histotechnology (3)

This is a laboratory course considering the preparation of animal tissues for microscopic study. Methods of sectioning and staining for both histological and cytological study are stressed. Prerequisites: BIOL 114, 115.

BIOL 311 Embryology (3)

This course examines the processes involved in the development of animals through study of fertilization, cleavage, gastrulation, formation of appendages, origin of organs, and the process of differentiation. Prerequisites: BIOL 114, 115.

BIOL 312 Principles of Neural Science (3)

Principles of Neural Science will provide an added dimension to students interested in knowing more about the nervous system of man. This course will complement the courses in Anatomy and Physiology as well as Mechanisms of Disease. Prerequisites: BIOL 111, 112, 114, 115; CHEM 233.

BIOL 315 Comparative Vertebrate Anatomy (4)

This course deals with evolutionary and functional aspects of vertebrate anatomy. A series of vertebrates will be dissected in order to demonstrate the evolutionary development of anatomical systems. The physiological, ecological, and behavioral significance of anatomical characteristics observed in laboratory will be the topic of lecture sessions providing a synthesis of these biological disciplines within an evolutionary framework. Prerequisites: BIOL 114, 115.

BIOL 316 Principles of Systematics (3)

An introduction to taxonomy and systematics, this course focuses on the history and practice of classifying organisms and the applications of taxonomy and systematics to modern organismal and molecular biology. Particular emphasis is placed on the reconstruction of the evolutionary histories of organisms and their impact on higher taxonomic groups. Topics include species concepts, delineation of taxonomic categories, methods of inferring phylogenies, methods and rules of taxonomic nomenclature, and problems associated with natural variation and fossil species.

BIOL 320 Plant Morphology (3)

This course is primarily a study of the classification, general characteristics, and life cycles of the major plant divisions. The student becomes acquainted with representative mosses, liverworts, ferns, fern allies, and gymnosperms. The general ecology and economic values of the plant groups are investigated. Prerequisites: BIOL 114, 115.

BIOL 321 Plant Pathology (3)

This course is an introduction to the study of plant disease. Discussion consists of the kinds of disease in plants, the agents causing them, and factors which influence disease development with special emphasis on symptomatology and disease control. Prerequisites: BIOL 114, 115.

BIOL 322 Plant Responses to Environmental Stress (4)

As plants are developing and reproducing they are often subjected to environmental stress, which can be quite severe. Temperature extremes, drought, flooding, unavailability of nutrients, toxic minerals, and airborne pollutants are examples of such stress factors. This course deals with the symptoms of stress and the mechanisms by which some plants overcome these problems. Lab exercises provide

experience in applying appropriate methods to the study of stress effects and plant responses. Prerequisites: BIOL 114, 115; CHEM 121, 123, 124, 126

BIOL 325 Ornithology (4)

The emphasis in this course is introductory in nature; consequently, all aspects of ornithology will be discussed with an emphasis on evolution, ecology, behavior, and adaptation. In the laboratory, field identification and behavioral observation of birds of the eastern United States will be stressed through field trips to local and regional parks and refugees. Prerequisites: BIOL 114, 115.

BIOL 326 Winter Birds of Florida (3)

Three weeks of intensive field study in Florida will provide undergraduate students with in-depth knowledge of Subtropical American fauna. The emphasis is placed on bird study with hundreds of species located in bays, rivers, and estuarine areas from Tampa Bay to Key West. Camping out will be the means of accommodation throughout the course. Students are expected to provide their own transportation and gear. Offered on demand. Prerequisites: BIOL 104 or 114 and 115.

BIOL 330 Microbiology (4)

This course is a study of microscopic forms of life with emphasis upon bacteria. Special attention will be given to growth, metabolism, and control of microorganisms. Consideration is given to the relationship of microbes to health and disease. In the laboratory, techniques of isolation, staining, biochemical, characterization, and serology are stresses. Prerequisites: BIOL 114; CHEM 121, 123, 124, 126, or equivalent.

BIOL 331 Genetics (3)

This course includes a study of the principles of Mendelian genetics and theories of inheritance including the chemical nature, location, organization, and transfer of the information encoded in nucleic acids. Aspects of population and medical genetics are reviewed. Prerequisite: BIOL 114.

BIOL 332 Genetics Laboratory (1)

This course is an introduction to the experimental basis of essential concepts in genetics, and will overview three main areas: classical genetics, population genetics, and molecular genetics. Students will learn about the methodology of modern genetics by experimentally investigating important genetic phenomena. Prerequisite: BIOL 114, 115; corequisite BIOL 331.

BIOL 333 Invertebrate Zoology (4)

This course is a comprehensive survey of the major phyla of invertebrate animals. The morphology, functional biology, ecology, evolutionary history, and phylogeny of invertebrate taxa will be covered. The minor invertebrate phyla will be introduced. Laboratory is required. Prerequisite: BIOL 114, 115.

BIOL 340 Animal Physiology (4)

This course is an introductory study of animal organ systems, their functions and mechanisms of function as related to whole organism homeostasis. Topics include energetics, temperature and fluid regulation, and nervous and hormonal controls. Prerequisites: BIOL 114, 115; CHEM 121, 123, 124, 126.

BIOL 350 Animal Behavior (3)

The Animal Behavior course will provide an introduction to the study of ethology. The course will begin with a historical account of the development of ethology as a science followed by discussions of the evolutionary, genetic, and physiological bases of various types of behaviors. Prerequisites: BIOL 114, 115, 200.

BIOL 351 Animal Behavior Laboratory (1)

This course complements the Animal Behavior lecture course. Laboratory topics are chosen to facilitate an in-depth analysis of specific topics discussed in lecture. Emphasis will be placed on observing, measuring, analyzing, and reporting behavioral patterns observed in laboratory and field conditions. Prerequisites: BIOL 114, 115, 350 (concurrently), 200.

BIOL 380 Cell Culture Techniques (2)

This course is designed to provide the students with theory and basic techniques of plant and animal cell cultures. These include aseptic techniques, media preparation, establishment of primary culture, maintenance and propagation, contamination control, transformation, transfection, cloning, and fusion of cultured cells. Prerequisites: BIOL 114, 115; CHEM 121, 123, 124, 126.

BIOL 390 Human Gross Anatomy (4)

This course is designed to provide the student with an in-depth examination of the structure and function of the human body. Using a regional approach, students will examine through lecture/discussion and laboratory exercises systems including the musculoskeletal, nervous, endocrine, and cardiovascular. Prerequisites: BIOL 111, 112, 114, 115.

BIOL 395 Applied Research Techniques (1)

Students will be provided the opportunity to review, apply and coordinate skills learned in a variety of classes including experimental design, and data collection, organization, interpretation, analysis and presentation, to conducting a formal research project. Prerequisites: BIOL 114, 115; CPSC 101; MATH 110.

BIOL 401 Human Genetics (3)

This course relates principles of both transmission and molecular genetics to the human organism. Particular stress will be placed on inborn errors such as Down's Syndrome, Kleinfelter's Syndrome, and Tay-Sach's Disease. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 331.

BIOL 407 Organic Evolution (3)

This course develops a synthetic theory of evolution, describes the courses of variability, organizes genetic variability in the population, and evaluates isolation, hybridization, and ploidy. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 410 Histology (4)

This course is a study of the microscopic anatomy of cells, tissues, and organs. Correlations between structure and function at the microscopic and submicroscopic levels are primary functions of the course. Laboratory experiences will supplement the lectures and provide students with the opportunity to develop the ability to recognize the microscopic anatomy of cells, tissues, and organs. Prerequisites: BIOL 114, 115, 230 and 310 are recommended.

BIOL 411 Introduction to Molecular Biotechnology (3)

The course will provide students with an overview of modern molecular biology and the growing field of biotechnology. The laboratory component will allow students to use some of the major techniques and instrumentation widely used in molecular biology research. Guest lecturers will present key projects that illustrate the

application of biotechnology to problems of disease prevention and vaccine production. Prerequisites: BIOL 114, 115.

BIOL 412 Introduction to Electron Microscopy I (3)

This course is an introduction to the techniques of electron microscopy. Methods of tissue preparation, theory of the electron microscope, as well as assigned readings are an integral part of the course. Practical experience in the methodology of tissue preparation is stressed. Prerequisites: 16 credits in biology and consent of instructor.

BIOL 413 Predator-Prey Relationships (3)

Predator-prey relationships are prime examples of coevolution and evolutionary arms races. The study of such relationships provides insight into evolutionary and ecological mechanisms of animal interactions. These interactions will be looked at within the framework of Optimal Foraging Theory. Prerequisites: BIOL 114, 115, 200.

BIOL 414 Pathogenic Microbiology (3)

This course is a study of the pathogenic microorganisms. The emphasis is on bacteria, rickettsia, and chlamydia. The morphological, biochemical, serological, and pathological characteristics of these organisms will be addressed. This course will focus on important nosocomial and outbreak associated etiological agents. Prerequisites: BIOL 114, 330.

BIOL 416 Parasitology (3)

This is an introductory course consisting of a morphological study of selected parasites of man and animals with special attention to host-parasite relationships and the phenomenon of parasitism. Laboratory experience includes dissection of vertebrate hosts and fixation, staining, mounting, and identification of parasites recovered. Prerequisites: BIOL 114 and 115 or 111 and 112.

BIOL 418 Cytology (3)

This course acquaints the student with the subject of cellular structure, gives the students an understanding of the more modern concepts of cellular organization, and brings to students the modern techniques of investigation of the detailed structure and processes of the cell. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Offered on demand. Prerequisites: BIOL 114, 115.

BIOL 419 Virology (3)

This course includes a study of the aspects of systematics, serology, immunology, vaccines and genetics of viruses. Representative viral diseases along with their mechanism for pathogenicity are studied. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, 330.

BIOL 420 Biology of Aging (3)

This course covers the biological aspects of aging. Theories of aging as well as the actual physiological changes that occur on the molecular, cellular, and systemic levels are discussed. Biology majors may not use this course to fulfill their Biology major requirements. This course is one of the required courses for students in Gerontology. Prerequisites: BIOL 111, 112 (BIOL 114 may be substituted for BIOL 112).

BIOL 421 Introductory Mycology (3)

This course is a survey of higher and lower fungi, including field collections of fleshy fungi with laboratory physiological studies and identification. Emphasis on fleshy basidiomycetes and fungi imperfecti. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 422 Plant Physiology (4)

This course is a study of the functions of higher plants, including water relations, photosynthesis, respiration, nutrition, and the control of plant growth and development. The practical applications of plant physiology are also discussed. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 423 Plant Ecology (3)

This course is designed to instill knowledge of the principles of fundamentals of plant ecology and the methods of vegetation analysis. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, and 200.

BIOL 424 Mechanisms of Disease I (3)

This course will discuss the mechanisms contributing to disease and representative diseases affecting the various body systems. Readings, Kodachrome slides, and selected, preserved organs/tissues will be used to graphically illustrate the diseases. Prerequisites: BIOL 111, 112.

BIOL 425 Herpetology (3)

This course will review the biology of the vertebrate classes Amphibia and Reptilia from an organismic perspective. The topics of focus will include evolution, systematics, ecology, and behavior. Field research techniques will also be emphasized. Prerequisites: BIOL 114, 115.

BIOL 426 Wildlife Biology (3)

A management approach to wildlife resource biology, the emphasis is on life histories, investigative techniques, and field research methods. Most North American game species are included. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 427 Natural History of Western Fauna (6)

This program provides a graduate and undergraduate course that gives the student a unique opportunity for field study across the country. Although the focus will be on animal life in the Pacific Northwest, adequate attention will be given to wildlife on principal refuges found along the route both to and from the Northwest. Since this course also is offered for graduate credit, a differentiation of requirements will be made. (Offered during Main Summer Session) Prerequisites: BIOL 114, 115.

BIOL 428 Biogeography (3)

This course deals with the geographical distribution of organisms. It examines the pattern of these distributions and the underlying causes for them. The question of what present distributions of organisms indicate about past climates and environments is considered. A secondary area of examination is ecology of invasions which include present day translocation of organisms from former to new habitats. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, 331.

BIOL 429 Human Physiology (3)

This course is an in-depth study of human physiology. Emphasis is placed on the function and interrelationship of the nervous, circulatory, respiratory, and excretory systems. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 111, 112; CHEM 312 is recommended.

BIOL 430 Applied Microbiology (4)

This course stresses the applications of principles learned in general microbiology. Emphasis will be placed on specific microbiological techniques as they apply to pathogenic microrganisms, agriculture, and the environment. Prerequisites: BIOL 114, 330.

BIOL 431 Ecological Physiology (3)

Various physiological processes such as temperature control, and salt and water balance will be studied by examining the modifications that make specific animals better adapted for survival in a particular environment. Since this course is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 432 Virology Laboratory (1)

This course includes the study of the handling and infection of laboratory animals with viruses. The use of cell or tissue cultures in virology will be reviewed. To study viral replication, laboratory exercises in phage activity, bacterial virus growth curves and animal virus growth curves will be performed. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, 330, concurrent with 419.

BIOL 434 Comparative Hematology (4)

This course introduces the student to basic and advanced concepts of hematology and hemostasis in animals. Emphasis will be placed on the hematologic cell series, anemias, leukemias, and other blood dyscrasias. Normal values and basic hematologic testing will be stressed. The student will learn to evaluated normal and abnormal cellular morphology and integrate these findings to the clinical picture. Students will be introduced to the principle of electronic counting and will learn to interpret scatterplots or other graphical material. The concepts of hemostasis will be developed through laboratory exercises, case studies, and classroom discussion. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, CHEM 121, 122, 123, 124.

BIOL 435 Endocrinology (3)

This course is a study of the embryology, histology, and function of the chemical integrating system — the endocrine system — of animals, with particular emphasis on the vertebrates. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisite: CHEM 234.

BIOL 436 Endocrinology of Sexual Reproduction (3)

Comparative anatomy and physiology of the vertebrate reproductive systems and the chemistry and action of hormones concerned with reproduction will be studied. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisite: BIOL 435.

BIOL 437 Immunology (3)

A course designed to develop a basic understanding of the immune system and its relationship to disease. Everyday immunologic problems, penicillin and ragweed allergy, myeloma and lymphomas, serologic tests involving antigen antibody reactions, immunization, etc. will be considered. Graduate students will be expected to write a paper and complete a project. Prerequisites: BIOL 111, 112

BIOL 438 Pathogenic Microbiology Laboratory (1)

This course includes the study of the handling and culturing of bacteria. Antimicrobial resistant mechanisms will be emphasized. Diagnostic, non-cultural, methods using probes and polymerase chain reaction techniques will be included. Prerequisites: BIOL 114, 115, 330, concurrent with 414.

BIOL 439 Molecular Biology (3)

This course is intended to provide in-depth coverage of the principles of molecular biology. The structure of nucleic acids and proteins will be reviewed. The process of DNA replication, transcription, and translation in both prokaryotes and eukaryotes will be covered. The control of gene expression in several representative systems will be discussed in detail. Current methodologies in recombinant DNA research will be emphasized. Prerequisites: BIOL 114, 331; CHEM 121, 123, 124, 126.

BIOL 440 General Aquatic Ecology (3)

This course is a study of the plants, animals, and microorganisms that interrelate within the aquatic environment. Local habitats are used to illustrate theoretical and applied principles of aquatic ecology; freshwater and marine ecosystems in relationship to various types of pollution are also considered. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 441 Ecology of Water Pollution (3)

This course is a study of the effect of various types of pollution on the freshwater, estuarine, and salt-water ecosystems. Monitoring of polluted and unpolluted situations will be conducted in the field, and bioassay techniques will be shown in the laboratory. Various indices of the extent of water pollution will be discussed. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 442 Biology of Aquatic Macrophytes (3)

This course considers the identification, ordination, morphology, physiology, and ecology of the larger vascular and non-vascular aquatic plants. Since this course is also offered for graduate credit a differentiation of requirements is made. Prerequisites: BIOL 114, 115.

BIOL 443 Stream Ecology (3)

Stream Ecology is a course designed to study the biological parameters of rivers and streams with special emphasis on trophic dynamics, invertebrate-vertebrate communities, and seasonal changes. The effects of pollution on various aspects of streams will also be a major consideration. Field investigations will be used to examine differing streams and their particular characteristics. A variety of sampling techniques will be used in the field to give students experience with different methods of answering ecological questions. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, and 200.

BIOL 445 Ecology of Fishes (3)

This course emphasizes the taxonomic, physiological, ecological, and behavioral aspects of fishes; laboratory and field trips are an integral part of the course. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with exception of laboratory courses only.

BIOL 446 Limnology (3)

This course provides basic principles of physical limnology in relation to several types of communities in lakes and streams; laboratory and field trips are an integral part of the course. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 447 Biology of the Plankton (3)

This course covers the pelagic organisms in lakes and oceans and the factors that control their distribution and production. Planktonic plants and animals (e.g. algae, protozoa, rotifers, crustacea, and fish larvae) and the part they play in the economy of natural waters are studied; laboratory and field trips are an integral part of the course. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 448 Biology of Aquatic Insects (3)

This course covers the taxonomy, life history, and general biology of aquatic insects; laboratory and field trips are an integral part of the course. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 449 Cell Biology (3)

This course will provide an in-depth examination of cell structure and function and the interrelationship between the two. Special attention will be given to membranes, cytoskeleton, and cell surface structures. The function of these structures in the coordination of activities occurring within and among cells will be stressed. Prerequisites: BIOL 114, 331; CHEM 234.

BIOL 450 Field Entomology (3)

This course is an introductory taxonomic approach to insects, coupled with field collection and identification. Study includes ecology, morphology, systematics, and lab techniques. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 451 General Entomology (3)

This course is the study of insects with respect to morphology, physiology, taxonomy, and ecology; insects of economic importance are used as examples. This is a basic course leading to several aspects of entomology such as insect morphology, economic entomology, insect physiology, medical entomology, etc. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115.

BIOL 452 Insect Morphology (3)

This course studies the internal and external structure of insects utilizing specimens in the laboratory. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114 and 115, or 451.

BIOL 453 Insect Physiology (3)

This course studies the functional aspect of insects. The course includes investigations of life processes such as digestion, nutrition, excretion, circulation, respiration, behavior, reproduction, development, and metamorphosis, and relates these life processes to anatomical structures. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114 and 115 or 451 with BIOL 453 if possible.

BIOL 454 Medical Entomology (3)

This course is the study of arthropods that affect the health of man and animals. The study includes a brief account of introductory entomology and that of the ticks, insects, and sites of medical importance, both as vectors and as the causal agents of pathological conditions. Seeks understanding of the principle of the vector-host relationship. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114 and 115 or 451.

BIOL 455 Economic Entomology (3)

This course studies the insects of economic importance including their identification, life history, biology, harmful and beneficial effects, and control. Insects included are important in agriculture, forestry, medicine, veterinary medicine, and often encountered in the family home. The principles of insect control with recent approaches are also considered. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, or 451.

BIOL 456 Pest Control and Pest Management (3)

This course deals with identification, biology, damage, and control of structural, household, and commercial pests of insect and non-insect (including vertebrates) origin. Pesticide classification, chemistry, mode of action, and handling are studied. Preventive and non-chemical control methods using the Integrated Pest Management (IPM) principle are also discussed. Standard toxicological techniques with bioassay evaluations are administered. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114 and 115, or 451.

BIOL 457 Behavioral Ecology (3)

Behavioral Ecology is designed to introduce students to animal behavior within an ecological and evolutionary context. The subject matter deals with ways in which an organism's behaviors are influenced by the environment, especially with regard to resource distribution. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Course is offered regularly at ESU and occasionally at the Marine Science field station at Wallops Island, Va. Prerequisites: BIOL 114, 115.

BIOL 458 Wildlife Diseases (3)

This course includes a study of the occurrence, principles, concepts and significance of disease in wildlife. Representative diseases along with their mechanism for pathogenicity will be studied. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, 330.

BIOL 459 Wildlife Disease Laboratory (1)

This course is designed to demonstrate the immunological and biochemical factors in disease diagnosis. Common laboratory tests in hematology, blood chemistry, and microbiology will be employed. Birds, fish, and mammals will be the subjects examined. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: BIOL 114, 115, 330, 458 (concurrent).

BIOL 460 Marine Ecology (3)

This course is a study of the physical constants of the marine environment as it interrelates with marine organisms. The ecological interactions of the organisms with each other will be emphasized. The effect of pollution and excessive exploitation on marine organisms will be discussed. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 461 Mechanisms of Disease Laboratory (1)

This course focuses on basic mechanism of disease (the processes). The main thrust is directed toward identification of the changes in the human body at cellular, tissue, and system levels when insulted by a disease. Glass microscopic slides, 35mm slides, organ and tissue specimens, images from the Internet and DC-ROM programs will be

utilized in this course. Prerequisites: BIOL 111, 112. Corequisite: BIOL 424.

BIOL 462 Mammalogy (4)

An overview of the vertebrate Class Mammalia, this course is designed to help the student develop a basic understanding of the anatomy, diversity, ecology, fossil record, and geographical distributions of mammals. Students will be exposed to the modern and fossil mammals of the world – with a focus on the regional fauna – through a combination of classroom discussion, lecture, laboratory work with preserved specimens, field trips, and field work. Prerequisites: BIOL 114, 115, 200.

BIOL 463 Conservation Biology (4)

This course will synthesize topics relating to the conservation of animals and plants, including extinction, genetics, demography, insularization, threats to biodiversity, conservation economics, environmental ethics, and strategies for conservationists. Prerequisites: BIOL 114, 115.

BIOL 464 Population Genetics (4)

This course will cover the basics of population genetics. Stress will be placed upon understanding the basic processes of evolutionary genetics. The initial part of the course will cover the basic models of population genetics; the second half will deal with contemporary controversies or problems. The laboratory will emphasize data analysis. Prerequisites: BIOL 114, 115, 331; MATH 131.

BIOL 465 Immunology Laboratory (1)

This course is designed to provide the students with hands-on laboratory experimentation using basic immunological techniques. The course will include methods and techniques of: Immunization and bleeding of mice, antigen and antibody purification and characterization, immunoelectrophoresis, western blot, ELISA procedures, immunoprecipitation, immunocytochemistry, identification of cellular antigens by immunofluorescence, and isolation of mouse lymphoid tissue (spleen and thymus). Prerequisite: BIOL 330; corequisite: BIOL 437.

BIOL 466 Marine Ichthyology (3)

This course is a study of the internal and external structure of fishes, their systematic and ecological relationships, and their distribution in time and space. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 467 Fish Health Management (3)

The maintenance of fish health in enclosed, recycling water systems will be studied. The chemical, physical, and biological processes of these enclosed systems will be related to the health of various species of fish. Nutrition, fish handling, and diagnosis of diseases will also be emphasized. Prerequisites: BIOL 114, 115.

BIOL 468 Principles of Systematics (3)

This course focuses on the practice of classifying organisms utilizing modern systematic techniques. Particular emphasis is placed on the reconstruction of evolutionary histories of organisms using both molecular and morphological characters. Topics include species concepts, deliniation of taxonomic groups, and methods of inferring phylogenies. Prerequisites: BIOL 114, 115, 331.

BIOL 469 Introduction to Bioinformatics (3)

The aim of this course is to provide a basic introduction to bioinformatics for students in molecular biology or genetics with no particular training in mathematics, statistics or informatics. The students will get an overview of the different databases from around the world that are available on the internet, and will be presented with practical applications of computer-based methods for the analysis of DNA sequences and protein structures. Prerequisites: BIOL 114, 115, and at least one course from BIOL 331, 411, or 439.

BIOL 474 Introduction to Oceanography (3)

This course is designed to familiarize the student with the marine environment and current developments in the marine sciences. Topics for study will include the physical parameters of the ocean, ocean basis topography, life in the sea, and resources in the ocean. This course is periodically offered at the Marine Science field station in Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOL 477 Molecular Biology Lab (1)

This course is intended as an adjunct to BIOL 439 Molecular Biology. This course will provide students with hands-on experience using techniques for molecular biology research including DNA isolation, Southern blotting, and PCR (polymerase chain reaction). Prerequisites: BIOL 114, 331; CHEM 121, 123, 124, 126. Corequisite: BIOL 439.

BIOL 479/579 Forensic Biotechnology (3)

This course is intended to familiarize the students with an understanding of scope and use of biotechnological techniques in forensic sciences, which include criminal investigation, civil cases (paternity testing), and wildlife conservation and management (endangered species), diagnosis of inherited diseases, tissue and organ transplantation, personal and organism identification. This course will be conducted as both lecture and laboratory exercises. The students will learn how to collect, preserve, analyze and interpret biological evidence in forensic contexts: (hair, blood, saliva, semen, tooth pulp, and other tissues). It provides an overview of the techniques and problems related to application of biotechnology in different fields. Major topics will be addressed, such as categories of biological evidence, DNA fingerprinting, blood and serology, hair and fiber analysis, fingerprinting, forensic pathology. Current and historical cases will be used to illustrate examples of good and poor quality investigations and updates to new technologies and breakthroughs will be emphasized. Prerequisites: BIOL 331; either BIOL 411 or BIOL 439 and BIOL 477 and permission of the course instructor.

BIOL 480 Research in Biotechnology (3)

This course introduces research methods in biotechnology including the scientific method, literature search strategies, collection and analysis of data and scientific writing and presentation skills. With assistance from instructors, students choose an independent research project in the area of biotechnology. Prerequisites: Junior standing and permission of instructor.

BIOL 481 Insect Systematics (3)

This course will provide an in-depth examination of insect diversity at the order and family level with an emphasis upon identification of adults. Topics will include taxonomy, evolutionary relationships, approaches to classifications, nomenclature, zoogeography, ecology, morphology, and techniques of collection. One or more field trips may be required. Since this course is also offered for graduate credit, a

differentiation of requirements will be made. Prerequisites: BIOL 114 and 115.

BIOL 484 Environmental Studies Field Experience and Internship (Semester hours arranged)

Environmental field experience is gained by on-the-job experience under direct professional supervision. Interns have served with state, local, federal, and overseas agencies. Opportunities continue to expand as present interns open new positions for future internships. Must be at least a second semester junior.

BIOL 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular academic discipline. Independent study is a process through which a student either sharply increases his/her already advanced knowledge of a subject matter or increases his/her appreciation about an academic discipline that is correlative with a student's advanced knowledge of a subject. The proposed independent study must be submitted to the department for approval. The faculty member supervising the independent study must provide a minimum of five (5) hours of time per credit hour upon request of the student.

BIOL 486 Field Experience and Internship (Semester hours arranged)

BIOL 491 Behavioral Ecology Laboratory (1)

Laboratory topics will introduce students to experimental design, data acquisition, and behavioral observation techniques under laboratory and field conditions using a variety of invertebrate and vertebrate organisms and plants. Some Saturday laboratories will be required. Prerequisites: BIOL 114, 115, 457 or concurrent.

BIOL 492 Mechanisms of Disease II (3)

This course is a continuation of Mechanisms of Disease I. The mechanisms of diseases affecting the organ system will be studied; namely, to provide a concise account of important aspects of the pathology of human disease. Prerequisite: BIOL 424.

BIOL 493 Biology of Tropical Ecosystems (3)

This course will impart a thorough understanding of tropical ecology through introductory lectures, student presentations, and an intensive two-week field experience. The field experience will provide research opportunities for students on ecological and behavioral aspects of selected organisms and/or concepts. Destinations include Costa Rica, Ecuador, or Kenya. The course will be offered on demand during appropriate winter, spring, or summer sessions. Prerequisites: BIOL 114, 115, 200. Students will meet for a total of 15 hours prior to and after the field trip.

BIOL 494 Research in Biology 494 (3)

This course is an experimental investigation selected by the student in consultation with a member of the faculty and carried out under the guidance of the faculty member. Instruction will be given on how to design, pursue, analyze, and report on independent research. This course seeks to enrich undergraduate learning, by promoting opportunities for students to experience firsthand the research experience. Prerequisites: At least junior standing and permission of instructor.

BIOL 495 Seminar I (1)

This course is designed to lead senior students into current scientific literature. Students are assigned independent problems as well as readings in their areas and are expected to analyze the literature and orally report their findings to the class. Every attempt will be made to secure the services of experts in their field to present learned papers. This course is required of all Biology majors in the arts and sciences in their senior year and secondary education majors who are student teaching in the spring semester.

BIOL 496 Seminar II (1)

This course is a continuation of Seminar I. It is required of all Biology majors in the arts and sciences in the second semester of their senior year and of secondary education majors who are student teaching in the fall semester.

BIOL 497 Environmental Studies Seminar (1)

Seminar participants analyze selected environmental topics. Both individual and group efforts are encouraged. Prerequisites: Environmental Studies Majors Only; permission of instructor.

BIOL 498 Research in Marine Science (3)

This course is an individualized investigation of a research area in Marine Science. The specific research problem is formulated by the student and carried out under the direction of the professor. Prerequisites: 12 credits in Marine and Aquatic Science and senior standing.

BIOL 499 Student Teaching Internships (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy.

Biology - Marine Science Courses

Courses taught with a BIOM rubric are those courses normally taught at the Marine Science Consortium field station at Wallops Island, Va. These BIOM courses are taught through the Department of Biological Sciences and, unless specified otherwise in the course description, BIOM courses will count as Biological Sciences courses toward a major within the Department.

BIOM 352 Modeling Applications in the Environmental and Biological Sciences (3)

This course includes an introduction to systems and modeling approaches as techniques for describing the behavior of nonpoint source (NPS) contaminants. Pollutant loading to ground and surface waters and wetlands will be explored. Students will use physically based models routinely used by the U.S. EPA, USDA-ARS, and state environmental agencies. A case study approach and "what-if" scenarios" will be used to investigate best practices to minimize environmental degradation. Emphasis is placed on simulation interpretation. Students will devote approximately 60 percent total class time to hands-on computer exercises and data collection. Prerequisites: CHEM 121, 123, 124, 126; MATH 130 or 135; GEOG 121 or BIOL 200; familiarity with any Windows system.

BIOM 401 Biological Oceanography (3)

The interactions between biological communities and the oceanic environment are studied with emphasis on the distributions of coastal plankton, fishes, and bethnic invertebrates. This course is periodically offered at the Marine Science Consortium field station at Wallops Island, Va., only during a summer session. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisite: Two courses in Biology. Recommended: Introduction to Oceanography.

BIOM 402 Marine Evolutionary Ecology (3)

This course will study the ecological mechanisms underlying evolutionary processes. It is broad in scope and requires that students synthesize both evolutionary and ecological concepts and theory into an understanding of how organisms adapt to their environment. This course is periodically offered at the Marine Science Consortium field station in Wallops Island, Va., only during a summer session. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Courses in genetics and ecology.

BIOM 403 Comparative Physiology of Marine Organisms (3)

This course is an introduction to the physiology of marine organisms utilizing a comparative approach. A wide range of marine organisms will be used to demonstrate the variety of mechanisms and strategies that allow them to physiologically adapt to their specific environments. This course is periodically offered at the Marine Science Consortium field station in Wallops Island, Va., only during the summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisite: Two courses in Biology and Introductory Chemistry.

BIOM 404 Research Diver Methods in Marine Science (3)

Students in this course will study the marine environment with the use of SCUBA as a research tool. SCUBA will be used to collect samples, to measure the distribution of the flora and fauna, and to evaluate the productivity and biomass of select benthic communities. This course is periodically offered at the Marine Science Consortium field station in Wallops Island, Va., only during a summer session. Prerequisite: Two courses in the biological sciences including a zoology type course. SCUBA certification.

BIOM 405 Scanning Electron Microscopy: Marine Application (3)

This course trains the student in the use of a scanning electron microscope (SEM). Principles of operation and the preparation of marine geological and biological specimens are covered. Applications of the technique are performed on selected marine organisms and/or marine rocks and sediments. In addition, an energy dispersive X-ray spectrometer (EDX) is used to supplement the SEM analysis.

BIOM 458 Coastal Environmental Oceanography (3)

This course examines the interaction of biological, chemical, physical, geological, and ecological ocean processes as applied to coastal environments. Emphasis is placed on environmental management issues of the coastal zone. Topics include water quality analysis, barrier island geology and ecology, estuarine pollution, beach defense and biological implications in areas of coastal up welling and coastal fronts. Specific cases in coastal pollution will be examined from coastal environments around the U.S. Prerequisites: Two semesters of introductory biology, college algebra (or equivalent) and an ecology course. Recommended: Statistics.

BIOM 459 Advanced Methods in Coastal Ecology (3)

This course covers the wide array of methods of data collection, study designs, and analyses used in ecology. Emphasis is placed on understanding the strengths and weaknesses of different ecological methods and analyses in the study of coastal environments. Lecture, fieldwork, and laboratory are integrated, and students gain practical computer experience by analyzing ecology data from the field using software that performs analyses introduced in lecture. Prerequisites: Two semesters of introductory biology, college algebra (or equivalent) and an ecology course. Recommended: Statistics.

BIOM 460 Marine Ecology (3)

This course is a study of the physical constants of the marine environment as it interrelates with marine organisms. The ecological interactions of the organisms with each other will be emphasized. The effect of pollution and excessive exploitation on marine organisms will be discussed. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 461 Marine Botany (3)

The taxonomy, physiology, ecology, and economic importance of marine and coastal plants, as exemplified by those found in the Lewes, Delaware, area, will be considered. Laboratory techniques will include collecting, preserving, identifying, and analyzing plants and plant materials; appropriate instrumentation will be used. Emphasis will be given to both in-the-field studies and laboratory analyses. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 462 Marine Invertebrates (3)

The course is a study of the life history, habits, origin, development, physiology, anatomy, and taxonomy of the main phyla of invertebrates. A phylogenetic sequence is followed to show interrelationships among the phyla. Special emphasis is given to the Atlantic marine invertebrates. Laboratory and fieldwork deal with collection, preservation, and identification of local species. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 463 Marine Biology Cruise (3)

This course consists of a three-week session involving detailed planning and preparations for an oceanographic research cruise of approximately eight days, actual execution of the cruise plan aboard an ocean research vessel, and data-processing and reporting of the cruise results. Shipboard sampling techniques and instrumentation used by biological oceanographers are introduced. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 464 Developmental Biology of Marine Organisms (3)

This course deals with the principles of development and differentiation in marine organisms at the molecular and supramolecular levels of organization. The laboratory will include both descriptive and experimental embryology. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 465 Management of Wetland Wildlife (3)

This course deals with the ecology and management of wetland wildlife with emphasis on the management of wetlands as ecological systems. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of

requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 466 Marine Ichthyology (3)

This course is a study of the internal and external structure of fishes, their systematic and ecological relationships, and their distribution in time and space. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 467 Marine Pollution Research Cruise (3)

Investigations are conducted before, during, and after a pollution episode; the fate and behavior (dispersion and degradation) of the pollutants are followed. Bioassays and other toxicity studies will also be conducted. Procedures, techniques, and equipment will be prepared and standardized prior to the cruise and a final project report prepared and submitted for the course grade. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 468 Marine Ornithology (3)

Ornithology at the Wallops Island station introduces the student to the avian fauna of the seacoast and at the same time enables comparison with inland species to be found near the laboratory. In addition to the fieldwork providing visual and vocal identification, lecture material will include information on distribution behavior physiology and anatomy. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 469 Field Methods in Oceanography (3)

This course provides students with a general background for a working knowledge of investigative techniques that are used to study the physical, biological, geological, and chemical parameters of the marine environment. Students learn to appreciate the scope of field studies through active participation in group projects and individual research efforts; those projects include planning and execution, analysis and interpretation of data, and presentation (written and verbal) of the results. This course is periodically offered at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 470 Marine Biology (3)

This course is a study of plant and animal life in the marine environment. Emphasis will be placed upon physical and chemical factors that affect the marine environment and the ways in which various organisms have become adapted for exploiting marine resources. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 471 Biology of Molluscs (3)

The Mollusca is the second largest group of animals and perhaps the most diverse in terms of morphological, ecological, and behavioral variations. This course offers an evolutionary, functional, and ecological approach to studying this important group of organisms. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Prerequisite: One year of biology (with laboratories).

BIOM 472 Coral Reef Ecology (3)

This course investigates coral reef structure, formation, types and the relationship of reef organisms to their environment. Emphasis will be given to species diversity/identification, symbiosis, and effects of temperature, salinity, light, nutrient concentration, current predation, and competition on the abundance and distribution on coral reef organisms. This course will be offered at the Marine Science Consortium at Wallops Island, Va., with a portion taught in Honduras. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisite: One year of biology (with laboratories).

BIOM 473 Marine Mammals of the Atlantic (3)

The distribution, population size, physiology, evolution, adaptation, and ecological relationships of marine mammals will be studied. Laboratory and fieldwork will include an off-campus field trip to facilities studying marine mammals (Baltimore Aquarium and Woods Hole). This course will be offered at the Marine Science Consortium at Wallops Island, Va., during a summer session. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: One year of biology (with laboratories).

BIOM 474 Introduction to Oceanography (3)

This course is designed to familiarize the student with the marine environment and current developments in the marine sciences. Topics for study will include the physical parameters of the ocean, ocean basis topography, life in the sea, and resources in the ocean. This course is periodically offered at the Marine Science field station in Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 475 Behavior of Marine Organisms (3)

Discussion and observations are conducted on the influences of external and internal factors on the regulation and coastal behavior of organisms living in the marine coastal environment. This course is periodically offered during the summer sessions at the Marine Science field station at Wallops Island, Va. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 476 Marine Microbiology (3)

This course provides a survey of methods and concepts of marine microbiology. Attention will be given to technical aspects of sample collection, microbial ecology of the marine environment, enrichment culturing, methods of enumeration and identification, with emphasis on marine bacteria. This course is periodically offered during summer sessions at the Marine Science field station at Wallops Island, Va. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 478 Anatomy of Marine Chordates (3)

The basic structures of marine chordates will be studied by dissection in order to trace the important trends (and their functional significance) in the evolution of these structures within the various groups of marine chordates. This course is periodically offered at the

Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 479 Ecology of Marine Plankton (3)

This course is a study of the phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons will be made between the planktonic population of various types of habitats in relation to primary and secondary productivity. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 480 Oceanography (3)

This course is an introduction to the physical, chemical, biological, and geological processes and interactions in the oceans. Topics include history of oceanography, charts and navigation, the physical and chemical properties of seawater, instrumentation and at-sea measurements, marine geology, beach processes, theory of continental drift, air-sea interactions, waves and ocean circulation, tides, plant and animal life in the seas, and marine ecology. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 481 Marine Micropaleontology (3)

This course is designed for students majoring in either biological or geological sciences. The course will deal with modern, living representatives of microorganisms important in the fossil record. Particular emphasis will be placed on the taxonomy, morphology, evolution, and ecologic affinities of the foraminifer (Sarcodina), but other groups, including the Radiolaria, Diatoms, and Ostracoda, will also be considered. Laboratory and field aspects of the course will include sample collection preparation and analysis. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 482 Field Studies in Oceanography (3)

This is a three week session involving detailed planning and preparation for an oceanographic research cruise of approximately one week duration, the actual research cruise on board the R. V. "Annandale," and the data-processing and final reporting of results. Demonstration of various shipboard sampling techniques and instrumentation will be given. Each cruise will deal with different aspects of marine science, i.e., 1) general oceanography, 2) marine biology, 3) marine geology, and 4) marine pollution and waste disposal. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 483 Wetland Ecology (3)

This structure and function of coastal wetland ecosystems are emphasized. The ecological impact of humans on these wetlands is interrelated with management strategies. Field exercises are stressed. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 487 Tropical Invertebrates (3)

Tropical Invertebrates emphasizes the systematics and ecology of tropical communities. A variety of collection and observation methods are used to sample tropical inshore and reef areas. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements will be made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 488 Coastal Vegetation (3)

The vegetation under the marine influence is identified, and the factors limiting and controlling the distribution of this vegetation is determined. This course is periodically offered during the summer at the Marine Science field station at Wallops Island, Va. Since this course also is offered for graduate credit, a differentiation of requirements is made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 489 Physiology of Marine Invertebrates (3)

Mechanisms and regulation of organ function in invertebrates with emphasis on homeostasis will be studied using live specimens from the marine environment. The unique adaptations of the marine invertebrates will be compared with general physiological principles. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during a summer session. Since this course also is offered for graduate credit, a differentiation of requirements is made. Prerequisites: Any two courses in biology with the exception of laboratory courses only.

BIOM 490 Marine Aquaculture (3)

This course will include the theory and the practice of raising organisms for food and for the aquarium trade. Techniques of raising economically important organisms from the egg stage to marketable size and their food supplies will be studied. This course is periodically offered at the Marine Science field station at Wallops Island, Va., only during summer sessions. Prerequisites: Three courses in biology (minimum of nine total credits) with exception of laboratory courses only.

In addition to the courses listed previously, a number of courses are offered by the Marine Science Consortium at Wallops Island, Va., which a student may take and apply toward the requirements in biology. Interested students should contact Dr. James C. Hunt for further information.

Biotechnology and Chemical Biotechnology

The Faculty of Sciences

See Biotechnology on page 80 and Chemical Biotechnology on page 111.

Business Management

College of Business and Management

The Faculty of Business Management
Department of Business Management
208 Smith Street
570-422-3251.....www.esu.edu/emgt

"What Can I Do with a Major in Business Management?"

As companies strive to compete in a global market, they look for employees who are knowledgeable in current business practices and who can effectively evaluate the current competitive environment and meet customer needs. Businesses want employees with strong communication skills who are good at analyzing and solving problems and thinking critically.

A Business Management degree can provide those skills, and earning this degree can increase your job opportunities and salary potential. The study of business management provides a broad education in business management practices and can be pursued on its own or combined with a more specialized area of study such as Finance, Accounting, or Marketing.

The Department of Business Management

The Department of Business Management offers courses that will introduce you to a variety of careers in the field of business. The Bachelor of Science degree in Business Management offers the benefits of small class sizes, modern teaching classrooms, and personal advising by faculty.

East Stroudsburg University has offered the Bachelor of Science degree in Business Management since 1986. The department maintains full-time academically-qualified faculty and part-time professionally-qualified faculty to teach in the program. There are more than 500 Business Management majors in the department. The department graduates almost 200 students per year who go on to successful professional careers in business.

The degree program in Business Management is designed to offer professional training at the baccalaureate level that can lead to a career in business or further graduate education.

About the Program

The purpose of the Business Management program is to provide students with the knowledge, training, and skills development they will need to pursue a successful career in business management. As a Business Management major, you choose the area of specialization that you would like to pursue. The areas of specialization are: Accounting, Finance, General Management, and Marketing. When you complete the course of study, you will receive a Bachelor of Science in Business Management. You also have the option of earning a Management minor or an Economics and Management Interdisciplinary minor.

If your goal is to become a professional manager who is not only a trained decision-maker, but also understands the complex relationships that exist between the manager, the organization, and society at large, then please contact the department for more information.

Are you interested in...

- Effectively and efficiently managing people, methods, materials, equipment, and money to meet customer needs
- Individual and organizational success
- Leadership
- Effective communication
- Critical thinking and analyzing and solving problems
- Team work

Choose Business Management at ESU

- Small class size
- Modern teaching classrooms
- Qualified, experienced faculty
- Personal advising by faculty
- Four specializations: Management, Finance, Accounting and Marketing

Is Business Management a career path for me?

Career Potential

- Accountant, CPA, Auditor
- Marketing, Advertising, Sales
- Financial and Investment Manager
- Operations and Manufacturing Manager
- Small Business Manager, Entrepreneur
- General or human resource manager

Career Settings

- Small, medium, large private companies
- Local, state and federal government
- Nonprofit organizations
- Accounting and auditing firms
- Consulting firms
- Marketing, advertising, retailing firms
- Financial firms, banks, insurance companies

More detailed career information is available from the department.

Bachelor of Science in Business Management

Program Features:

45 Semester Hours

- **Required major courses:** MGT 200, 204, 211, 212, 225, 250, 301, 352, 355, 452.
- **Specialization courses:** Fifteen semester hours from one of the following areas:
  - **Accounting:** (MGT 331, 332, 333, 335, 336, 431)
  - **Finance:** (MGT 307, 340; ECON 236, 314, 332, 411, 412)
  - **Management:** (MGT 333, 351, 353, 354, 359, 362, 453, 454; ECON 332)
  - **Marketing:** (MGT 354, 370, 371, 375, 470, 471; ECON 332)
  - **Entrepreneurship:** (MGT 353, 363, 370, 375, 453)
- **Corequisite courses:** ECON 111, 112; MATH 110, 130 or adviser approved substitutes; ENGL 205; CMST 111; CPSC 100; PSY 100.
- **Other requirements:**
- University requirements in the Undergraduate Catalog.
- Majors must complete as least five Business Management (MGT) courses at East Stroudsburg University.

- Majors must attain a major QPA of 2.5 or better in all Management (MGT) courses taken at East Stroudsburg University.
- Incoming students are admitted as Pre-Business Management majors. In order to be admitted to the Business Management degree program and be permitted to take upper level (300/400) Business Management courses, Pre-Business Management students must satisfy the following entrance-to-major requirements:
  1. Complete the following eight required entrance-to-major general education courses: ECON 111, 112, MATH 110, 130 or adviser-approved substitutes, ENGL 205, CMST 111, CPSC 100, PSY 100;
  2. Complete the following four entrance-to-major core business management courses: MGT 211, 212, 225, 250;
  3. Complete a minimum of 45 total semester hours with a cumulative QPA of 2.25.
- Transfer students must meet the above requirements. If they do not, they are admitted into the pre-business management program.

Program Curriculum Plan

Suggested Program Curriculum Plan

(Subject to change by the University without notice)

Freshman Year

Fall

ENGL 090/103: English Composition	3
CMST 111: Speech Communication	3
MATH 130: Applied Algebraic Methods	3
ECON 111: Principles of Macroeconomics	3
CPSC 100: PC's and Their Uses	3
Subtotal	**15**

Spring

MGT 211: Financial Accounting Fundamentals	3
ECON 112: Principles of Microeconomics	3
PSY 100: General Psychology	3
MATH 110: General Statistics	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

MGT 212: Managerial and Cost Accounting Fundamentals	3
MGT 225: Business Law	3
MGT 250: Quantitative Business Analysis I	3
ENGL 205: Workplace Writing	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

MGT 200: Principles of Management	3
MGT 204: Principles of Marketing	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

MGT 301: Financial Management	3
MGT 352: Human Resource Management	3
MGT 355: Business Ethics	3
Specialization Course	3
General Education Elective	3
Subtotal	**15**

Spring

Specialization Course	3
Specialization Course	3
General Education Elective	3
General Education Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall

Specialization Course	3
Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

MGT 452: Organizational Strategy	3
Specialization Course	3
Elective	3
Elective	3
Elective	1
Subtotal	**13**
Total Credits	**120**

For more information, contact the department by calling 570-422-3251 or visit www.esu.edu/emgt

For assistance or special accommodations, call 570-422-3954.

Business Management Minor

18 semester hours

- **Required courses:** MGT 200, 204, 211, three electives (at least two must be 300-400 level)

Economics and Management Interdisciplinary Minor

21 credits

- **Required courses:** Four Economics courses including ECON 111, 112 and any two additional ECON courses. Three Management courses including MGT 200 and any two additional MGT courses. A minimum of three courses (9 credits) of the minor's total of seven courses must be 300 or 400 level.
- **Additional requirements:** At least four of the seven required courses for the minor must be completed at ESU. This minor is NOT available to Economics or Management majors.

Business Management Student Organizations

Student in Free Enterprise (SIFE)

SIFE is a global nonprofit organization active in more than 40 countries. SIFE is funded by financial contributions from corporations, entrepreneurs, foundations, government agencies and individuals. Working in partnership with business and higher education, SIFE establishes student teams on university campuses. These teams are led by faculty advisers and they are challenged to develop community outreach projects relevant to SIFE's five educational topics: Market Economics 100, Success Skills, Entrepreneurship, Financial Literacy, and Business Ethics.

American Marketing Association (AMA)

The AMA is the world's largest and most comprehensive association of marketers. Whether you are preparing for a career in marketing or just exploring the field, the AMA is the information and networking source. Involvement in the American Marketing Association Collegiate Chapter (AMACC) will provide you with relevant industry experience and skills that will increase your value in today's competitive environment. The chapter engages in service projects of benefit to the university and community, and hosts social activities and events for its members.

Internships

Pursuing an internship while you are in college provides you with a great opportunity to gain valuable business work experience in your area of specialization. Many students receive job offers from their internship experience. Internships can be paid or unpaid and are available for credit or non-credit. Internships are not a requirement for graduating with a Bachelor of Science in Business Management degree, but are highly recommended.

If there is a specific area where you would like to intern, a Career Services adviser will work with you to find a match. If you wish to take an internship for credit, all you need to do is set up an internship agreement with a faculty member.

Faculty

Professor:
John Kercsmar (jkercsmar@po-box.esu.edu)

Associate Professors:
Kathleen Barnes (kbarnes@po-box.esu.edu)
Joseph Eshun, Jr. (jeshun@po-box.esu.edu)
Douglas Friedman (dfriedman@po-box.esu.edu)
Sheila Handy, Chair (shandy@po-box.esu.edu)
Kenneth Levitt (klevitt@po-box.esu.edu)
Terry Wilson (twilson@po-box.esu.edu)

Assistant Professors:
Qian Jane Xie (qxie@po-box.esu.edu)
Linda Mlodzienski (lmlodzienski@po-box.esu.edu)

Course Descriptions

MGT 200 Principles of Management (3)

This course is a survey of basic management theory and practice. The basic management processes of planning, organizing, leading, and controlling are presented. Systems theory is used to understand the challenges of managing organizations in environments that are subject to rapid and unpredictable change. Aptitudes and skills essential to managerial effectiveness are also considered. Concepts and skills are applied in case studies of real and fictitious organizations.

MGT 201 Decision Science I (3)

This course introduces students to the ways in which decision tools are used in business, economics, and management. Emphasis is placed on application areas and analyzing results. Numerous examples of practical decision-making techniques (in business and economic models) will be presented. Prerequisite: MATH 130.

MGT 204 Principles of Marketing (3)

Marketing is studied as the management process of identifying and satisfying individual and organizational product wants and needs. The traditional marketing problems of product planning, pricing, promotion and distribution are considered. Problems and cases are utilized to illustrate and reinforce basic concepts. Prerequisite: MGT 200.

MGT 211 Financial Accounting Fundamentals (3)

Financial accounting provides information about a firm's economic performance (revenues, expenses, income, cash flow) and condition (assets, liabilities, equity) to external constituencies such as creditors and investors. The fundamentals of how to measure, communicate, and utilize financial accounting information are covered.

MGT 212 Managerial and Cost Accounting Fundamentals (3)

Managerial and Cost accounting provide decision-relevant information to internal managers of a firm which is useful in planning and controlling operations. Basic techniques and issues of cost measurement, cost behavior, budgeting, quality conformity, segment analysis, and information relevancy are covered in the context of evaluating, and improving the firm's efficiency and effectiveness. Prerequisites: MGT 200 and 211.

MGT 225 Business Law I (3)

An introductory, yet comprehensive, survey of the fundamental topics in business law is presented to provide an understanding of the law and the ways in which it and the courts affect business activity.

MGT 250 Quantitative Business Analysis I (3)

This is an introduction to business data analysis and applications. Students will be exposed to economic data sources and techniques used for managerial decision-making. Managerial applications will include market research, sampling theory and quality control. Prerequisites: MGT 201 or MATH 110.

MGT 301 Financial Management I (3)

This course is a survey of financial management concepts and practices including financial statement analysis, cash flow analysis, the

impact of federal tax rules, time value of money, interest rates, debt and equity financing, financial risks and the cost of capital. Prerequisites: MGT 211, MATH 130.

MGT 307: Financial Management II (3)

This course completes the basic survey of financial management begun in MGT 306 (Financial Management I). The primary topics are cash flow and risk analysis for long-term (capital) investing decisions, capital structure, dividend policy, working capital, and an introduction to the advanced topics of planning / forecasting, derivatives, multinational operations, preferred stock, leasing, warrants, convertible securities, and mergers / acquisitions. Prerequisites: MGT 200 and 306.

MGT 323 Organizational Theory (3)

A detailed, comprehensive analysis of organizations is presented at an intermediate level. Organizational linkage systems provide the framework in which the internal environment and organizational dynamics are studied. Topics covered include organizational goals, structure, design, size, complexity, culture, conflict, change, control, power, technology, and strategic planning. Emphasis is placed on understanding why organizations function as they do and how they should be designed and managed to achieve maximum effectiveness. Prerequisite: MGT 200.

MGT 331 Intermediate Financial Accounting I (3)

In-depth study of the Financial Accounting Standards Board body of principles of accounting recognition and measurement used to prepare financial statements for external reporting. Topics include: FASB conceptual framework, financial statement structure and content, time-value of money, current assets, non-current assets, and current liabilities. Prerequisites: MGT 211 and 212.

MGT 332 Intermediate Financial Accounting II (3)

A continuation of the in-depth study of the Financial Accounting Standards Board body of principles of recognition and measurement for external reporting begun in MGT 331. Topics include: long-term liabilities, stockholders' equity, earnings-per-share, investments, income taxes, pensions, leases, cash flows, financial statement analysis, and disclosure requirements. Prerequisites: MGT 211, 212, and 331.

MGT 333 Intermediate Managerial and Cost Accounting (3)

An in-depth study of the analytical perspectives and tools of managerial/cost accounting with the objective of equipping the accountant to assist managers to improve organizational efficiency and effectiveness. Topics include: cost accounting systems, tools for planning and control, cost information for decision making, cost allocation, quality and JIT, capital budgeting and management control systems. Prerequisites: MGT 211, 212.

MGT 335 Tax Accounting I (3)

This course presents a comprehensive examination of the federal income tax regulations that apply to individuals. Topics include: tax research, planning, compliance, deductions, property sales, non-taxable exchanges, shelters, credits, and computations. Prerequisites: MGT 200, 211 and 212.

MGT 336 Tax Accounting II (3)

This course presents a comprehensive examination of the federal tax regulations that apply to corporations, partnerships, estates, and trusts. Topics include: acquisitions, reorganizations, consolidations, closely-held corporations, S-Corporations, liquidating and non-liquidating distributions, retirement plans, social security taxes, and gift taxes. Prerequisites: MGT 211, 212, 335.

MGT 340 Investment Management (3)

This course will focus on the determinants and components of investment strategy including risk and return, the operations of securities markets, characteristics of alternative investments including stocks, bonds, and mutual funds, valuation techniques, and options.

MGT 342 Investment Analysis (3)

A detailed analysis of investment instruments is presented in the context of portfolio theory. Risk and return analyses, a security markets operation, and valuation models are reviewed. Emphasis is placed on asset pricing and investment strategies. Topics covered include equity and fixed-income securities, financial commodities futures, stock nd index options, institutional operations, and international investment opportunities. Prerequisite: MGT 200 or 306.

MGT 350 Quantitative Business Analysis II (3)

This is an intermediate course in business and economic data analysis. It is a formal introduction to research methods and techniques used in managerial and financial forecasting. Students will be introduced to basic time series analysis, decision analysis and regression. Prerequisite: MGT 250.

MGT 351 Operations Management (3)

The primary focus of this course is to introduce how operations are carried out in real business today. The focus will be on the production/operations processes, the value chain, total quality management, resource planning and inventory control systems, facility planning and supply chain management. Students will be exposed to a wide variety of concepts, tools and applications that help them prepare for a career in business. Prerequisite: MGT 200; MGT 201 or MATH 130.

MGT 352 Human Resource Management (3)

The course is a survey of basic human resource management theory and practice. The processes of human resource recruitment, training, development, motivation, performance evaluation, and compensation are studied in contexts of the applicable theories and concepts of human behavior, ethics and fairness, and legal requirements. Prerequisite: MGT 200.

MGT 353 Small Business Management (3)

A comprehensive survey of the challenges that confront the managers of small businesses is presented on an introductory level. Topics covered include the characteristics of small business, starting a small business, organizing the enterprise, marketing; production and operations management, and administrative and financial controls. Problem areas — e.g., financial planning, product strategies, pricing, credit policies, inventory control and capital budgeting — are emphasized via a case study approach. Prerequisites: MGT 200 and 204.

MGT 354 Retail Management (3)

The structure, strategy, and changing environment of retail management are presented in a comprehensive survey. The topics analyzed include retail institutions, site location, merchandise planning, customer communications, and retail pricing. Emphasis is placed on case studies. Prerequisites: MGT 200 and 204.

MGT 355 Business Ethics (3)

Managers will confront ethical issues in their organizational careers. This course seeks to prepare managers to incorporate an ethical dimension into their decision-making by recognizing and accommodating the legitimate claims of multiple organizational stakeholders (owners, employees, customers, suppliers, competitors,

regulators, the ecological environment, and society). Concepts and models of ethical decision-making will be covered. Typical ethical issues encountered in organizational life and case examples of ethical and unethical behavior will be examined. Prerequisite: MGT 200.

MGT 359 Labor History and Industrial Relations (3)

This course examines the roles of labor and management in industrial relations with special references to labor history, wage rate determination, collective bargaining and government intervention into labor relations. The implications of the changing structure of the American economy are analyzed. Prerequisites: ECON 111 or 112 and any one of HIST 141, 142, 143, 144.

MGT 362 Globalization and International Management (3)

Economic, political, and technological forces are acting together to create a new system called globalization. This course will examine the forces of globalization and the new system they have created. After a brief survey of the economics of international trade and finance, the course will focus on the challenges of global management including understanding political, economic and cultural differences and adapting the organizational systems and strategies of research, product development, supply, manufacturing, marketing, finance, and human resource management to a global business environment. Prerequisites: MGT 200 and ECON 112.

MGT 363 Entrepreneurship and New Venture Creation (3)

This course presents a comprehensive overview of the concepts and practices of entrepreneurship/new venture creation. Topics include the characteristics of successful entrepreneurs, opportunity recognition and assessment, acquisition of human and financial resources, legal considerations, marketing strategies, intellectual property, and exit strategies. Instruction methods include lecture, case studies, guest entrepreneur speakers, and student team creation and defense of a comprehensive business plan for a entrepreneurial venture. Prerequisites: MGT 204 and MGT 211.

MGT 370 Consumer Behavior (3)

This course examines how individual and group behavior impact consumer choices in the marketplace. The individual processes of perception, learning, personality, attitudes, motivation, and decision-making are examined. The group influences of family, social class, culture, and subculture are also examined for their impact on consumer behavior. Prerequisites: MGT 200, 204, ECON 112 and PSY 100.

MGT 371 Advertising Management (3)

A comprehensive survey of the principles of advertising is combined with advertising practices to introduce students to the functions that advertising performs in selling activities. Advertisers, advertising agencies, consumer behavior, and market research are analyzed in terms of their relationships to advertising media, market segmentation, and advertising strategies. While emphasis is placed on creative advertising and advertising testing, special types of advertising are also covered. Prerequisites: MGT 200 and 204.

MGT 375 Innovation and New Product Development (3)

The primary focus in this course is the process of innovation and new product development. Topics include adoptions of innovation and technology, creativity and brainstorming, new product adoption models, and the market research necessary for progressively developing, introducing and continuous improvement of products. Prerequisites: MGT 370; MGT 250 or MATH 110; ECON 111, ECON 112.

MGT 430 Internal/Operational Auditing (3)

Internal auditors act as agents of continuous organizational improvement through their analysis of information system integrity and reliability, resource security and productivity, policy compliance, and operational efficiency and effectiveness. This course is a comprehensive survey of Institute of Internal Auditor standards, procedures and practices for this important value-added activity. Prerequisites: MGT 200, 211 and 212.

MGT 431 External/Financial Auditing (3)

Independent external auditors (CPA's) examine evidence regarding a firm's transactions and condition and report their conclusions about the fairness of the firm's financial reporting. This course is a comprehensive survey of American Institute of CPA auditing standards, procedures, and reports. Prerequisites: MGT 211, 212, 331, 332. May be taken concurrently with MGT 332.

MGT 451 Management Science I (3)

This is an intermediate course in Management Science. It is a survey of analytical techniques used by modern management to formulate and solve problems. Some of the topics covered are Linear and Integer Programming, Transportation Models, Inventory Theory, and Game Theory. Prerequisites: MGT 200 or MATH 110, 130.

MGT 452 Organizational Strategy (3)

This course presents the tools and techniques of organizational strategic planning, including internal organizational analysis of strengths and weaknesses and external scanning of the stakeholders and trends in the environment that the organization inhabits. Students will practice strategic analysis and the formulation of appropriate strategies through comprehensive real organization and/or simulation cases in this capstone course that integrates all the functional areas of management. The course concludes with a consideration of strategy implementation issues and techniques. Prerequisites: MGT 200, 204, 211, 225 and 306.

MGT 453 Organizational Leadership (3)

This course presents traditional (trait and behavioral theories) and contemporary (contingency, participative, charismatic, transformational) models of leadership. The course considers the sources and uses of power and influence as well as the phenomenon of leader emergence. The course includes leadership skills assessment and training exercises. Cases of effective and ineffective leadership will be utilized extensively throughout the course. Prerequisite: MGT 200 and PSY 100.

MGT 454 Organizational Behavior (3)

This course examines the individual and group behaviors that impact organizational performance. Individual processes and attributes such as perception, learning, personality, emotional intelligence, ethics, motivation, and stress are examined in organizational settings. Team processes such as communications, decision-making, power, conflict, and negotiation are also considered. The course concludes with a consideration of the organization-wide processes of learning, change, and structural design. Prerequisite: EMGT 200 and PSY 100.

MGT 470 Marketing Research (3)

The marketing research alternatives of reliance upon existing secondary data sources (publications, data bases) versus development of primary sources (surveys, observations, and experiments) is considered. Data analysis techniques including hypothesis testing, association testing, correlation and regression, discriminant, canonical, factor, and cluster analysis are presented. The course concludes with the traditional, contemporary, and emerging

applications of marketing research. Prerequisites: MGT 204, 370, and MATH 110.

MGT 471 Marketing Management and Strategy (3)

This is a capstone course in Marketing that examines the role of the Marketing Manager. The development of an appropriate marketing strategy is given extensive consideration. The implementation of a marketing strategy and the general and specific management issues involved in the marketing function are covered. Exercises, problems, and cases will be used extensively in this integrative course where all the important aspects of marketing come together. Prerequisites: MGT 204 and 370.

MGT 485 Independent Study (Hours to be arranged)

Independent study is an in-depth directed research into subject matter which is not covered in courses listed in the current catalog. It is open to an advanced student (90 credits) who discusses the research topic with an adviser before contacting the professor who will serve as the instructor. At least five (5) hours of student-professor conference time are required for each credit undertaken. Prerequisites: 90 credits and approval of the adviser, instructor, department chair and dean.

MGT 486 Field Experience and Internship

Internships provide qualified students with an opportunity to apply theoretical and techniques learned in the classroom to practical problems found in the work environment. Students can also use an internship experience to test a career aspiration under controlled conditions. Prerequisites: 2.5 GPA and 60 credit hours including ECON 111, 112, 312, and MGT 211, 212, 215, and 230.

Chemistry

College of Arts and Sciences

The Faculty of Science
Science and Technology Center, Room 317
570-422-3342.....www.esu.edu/chem

The Department of Chemistry is certified by the American Chemical Society.

About the Program
The Chemistry Department provides high quality programs in both traditional and emerging fields of study which recognize and promote human and intellectual diversity. The following undergraduate academic degree programs are offered: Bachelor of Science in Chemistry; Bachelor of Arts in Chemistry; Bachelor of Science in Secondary Education/Chemistry; Bachelor of Science Biochemistry; Bachelor of Science in Chemical Biotechnology.

The department provides options for students whose interests may range from traditional chemistry fields on the interface between chemistry and biology or that have a health-profession emphasis. The Minor in Chemistry program allows students to receive recognition for completing a chemistry program short of a double major.

The Bachelor of Science Program in Chemistry is certified by the Committee on Professional Training of the American Chemical Society. The Chemistry Department is one of only seven departments within the State System of Higher Education to have achieved and maintained this prestigious certification.

ESU is located within one of the biotech hotbeds in the U.S. and is well-positioned geographically in a cluster of pharmaceutical companies known as "PharmCountry."

Chemistry students may participate in undergraduate research programs. Under the supervision of a faculty mentor, these programs allow students to learn independently and solve problems. Students are exposed to advanced, specialized areas of chemistry and biochemistry.

Chemistry students also have many internship opportunities at regional chemical and pharmaceutical companies such as Sanofi Pasteur, Minerals Technologies, Instrument Specialties and McNeil Labs.

The ESU Chemistry Club is open to all ESU students with an interest in the science of chemistry. The club members are very active in campus events and public service. The members plan field trips to local and regional industries where chemistry plays a major role in research and production. The ESU Chemistry Club members produce chemical magic shows where the mysteries of chemistry are used to delight and thrill audiences of young and old alike. The members plan, prepare, and perform the chemical demonstrations under the supervision of professors.

Are you interested in...
- Medicine
- Biology
- Psychology
- Researching environmental problems
- Discovering the world around us

Choose Chemistry at ESU
- Small class sizes
- New, state-of-the-art facilities
- Practical field experiences
- Qualified, experienced faculty
- Frequent faculty interactions

Is Chemistry a career path for me?

Career Potential
- Chemist
- Agricultural Scientist
- Environmental Testing
- Educator
- Toxicologist
- Government Scientist

Career Settings
- Chemical Manufacturers
- Hospitals
- Graduate School - Advanced Degrees
- Laboratories
- Forensic Laboratories
- Food and Drug Administration
- Pharmaceutical Companies

More detailed career information is available from the department.

Bachelor of Arts in Chemistry

30 semester hours
- **Required major courses**: CHEM 121, 123, 124, 126, 233, 234, 235, 236, 353, 354, 371, 385, 495.
- **Corequisite courses:** CPSC 101; MATH 140, 141; PHYS 161, 162 .
- Please see the university requirements in this catalog.
- Please see the Foreign Language Competency Requirement in this catalog.
- **Note:** A 2.00 minimum quality point average in major courses is required for graduation.
- All 300 and 400 level courses required for the major must be completed at ESU, with the exception of courses taken as part of the Pharmacy Transfer Program.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
MATH 135 GE: Pre-Calculus	3
CPSC 101 GE: PC's and Their Uses in the Sciences	3
ENGL 103: English Composition	3
FIT 101: Lifetime Fitness/Phys Asm	2
Subtotal	**15**

Spring

CHEM 124 GE: General Chemistry II	3

CHEM 126 GE: General Chemistry II Lab	1
MATH 140 GE: Calculus I	4
PHYS 161 GE: Physics I	4
General Education Social Sciences	3
Subtotal	**15**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
PHYS 162 GE: Physics II	4
MATH 141 GE: Calculus 2	4
General Education Elective - Arts and Letters	3
Subtotal	**15**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
FLGR 116 GE: German I	3
General Education Elective - Social Studies	3
General Education Elective - Arts and Letters	3
Elective	2
Subtotal	**15**

Junior Year

Fall

CHEM 353: Physical Chemistry I	4
CHEM 371: Analytical Chemistry	4
CHEM 385: Chemical Literature and Documentation	1
General Education Elective - Social Science	3
General Education Elective - Arts and Letters	3
Subtotal	**15**

Spring

CHEM 354: Physical Chemistry II	4
FLGR 117 GE: German II	3
General Education Elective - Social Science	3
General Education Elective - Arts and Letters	3
Elective	2
Subtotal	**15**

Senior Year

Fall

General Education Elective - Social Sciences	3
Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

CHEM 495: Chemistry Seminar	1
Elective	3
Elective	4
Elective	3
Elective	4
Subtotal	**15**
Total Credits	**120**

For more information, contact the department by calling 570-422-3342 or visit www.esu.edu/chem

Bachelor of Science in Chemistry

Program Features

51 Semester Hours

- **Required major courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 353, 354, 371, 372, 385, 433, 441, 442, 460, 495, and three additional semester hours in CHEM at the 300 to 400 level.
- **Corequisite courses:** CPSC 101, FLFR 116, or FLGR 116, or FLSP 116; MATH 140, 141; PHYS 161, 162.
- Please see the university requirements in this catalog.
- **Note:** A minimum quality point average of 2.00 in major courses is required for graduation. This degree program is approved by the Committee on Professional Training of the American Chemical Society. Graduates of this program with a minimum quality point average of 2.50 in major courses are eligible for certification by this society.
- All 300 and 400 level courses required for the major must be completed at ESU.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
MATH 140 GE: Calculus I	4
ENGL 103 English Composition	3
CPSC 101 GE: PC's and Their Uses in the Sciences	3
Subtotal	**14**

Spring

CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
MATH 141 GE: Calculus 2	4
PHYS 161 GE: Physics I	4
FL__ 116 GE: French I or German I, or Spanish I	3
Fitness elective	1
Subtotal	**16**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1

PHYS 162 GE: Physics II	4
General Education Elective - Group A	3
General Education Elective - Group C	3
Fitness Elective	1
Subtotal	**15**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
General Education Elective - Group C	3
General Education Elective - Group C	3
General Education Elective - Group A	3
General Education Elective - Group A	3
Subtotal	**16**

*Junior Year

Fall

CHEM 353: Physical Chemistry I	4
CHEM 385: Chemical Literature and documentation	1
CHEM 315: Biochemistry	3
CHEM 371: Analytical Chemistry I	4
General Education Elective - Group A	3
Subtotal	**15**

Spring

CHEM 354: Physical Chemistry II	4
CHEM 372: Analytical Chemistry II	4
General Education Elective - Group C	3
General Education Elective - Group C	3
Subtotal	**14**

*Senior Year

Fall

CHEM 433: Organic Chemistry III	3
CHEM 441: Inorganic Chemistry I	3
CHEM 3__ or CHEM 4__ Chemistry Elective Course**	3
Elective***	3
Elective	3
Subtotal	**15**

Spring

CHEM 442: Inorganic Chemistry II	3
CHEM 460: Advanced Chemistry Laboratory	2
CHEM 495: Chemistry Seminar	1
Elective	3
Elective	3
Elective	3
Subtotal	**15**
Total Credits	**120**

* Junior and senior level courses may be resequenced based on availability.

**This course must be taken from the list of chemistry department 300 or 400 elective courses.

***Only 13 credits of electives can be chemistry department 300 or 400 elective courses.

For more information, contact the department by calling 570-422-3342 or visit www.esu.edu/chem

Chemistry - Secondary Education

Are you interested in...

- Testing theories
- Exploring
- Investigating
- Teaching others

Choose Chemistry / Secondary Education at ESU

- Small class sizes
- New, state-of-the-art facilities
- Practical field experiences
- Qualified, experienced faculty
- Frequent faculty interactions

Is Chemistry / Secondary Education a career path for me?

Career Potential

- Teacher of Chemistry
- Graduate School –
- Chemical Education

Career Settings

- Public Schools
- Private Schools
- Charter Schools
- School Administration

More detailed career information is available from the department.

Bachelor of Science in Chemistry - Secondary Education

Program Features

34 Semester Hours

- **Required major courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 353, 354, 371, 385, 495, and 499.
- **Corequisite courses:** BIOL 114, 115; MATH 140, 141; PHYS 161, 162.
- **Required professional education courses:** PSED 150, 250, 420, 421, 430, 431, 446; SPED 350; REED 350.
- **Recommended courses:** CHEM 373, 405, 493; GEOG 120 or 121. It is recommended that students take both CPSC and MCOM 262.
- Please see the university requirements in this catalog.
- **Note:** A minimum quality point average of 2.50 in chemistry major courses is required for certification. All 300 and 400 level courses required for the major must be completed at ESU.

The Commonwealth of Pennsylvania has established new and superseding requirements for all candidates in teacher preparation programs. Please refer to the section The College of Education in this catalog for specific requirements for admission into teacher education programs.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education. ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

These General Education selections meet two of the Pennsylvania requirements for Chemistry certification candidates:

ENGL,,,	any GE English Literature course	(As a Group A GenEd elective)
GEOG 120 and/or 121	Physical Geography or Physical Geology	(As a Group C GenEd elective)

Certain additional General Education courses have particular relevance for chemistry teachers.

Among your 15 credits from 4 or 5 areas in Humanities Group A, consider these courses:

CMST 111	Speech Communication (very highly recommended)
FLSP 116, 117	Spanish I and II or other spoken foreign language (meets ESU language req.)
ENGL 177 or 180	Environmental Literature or Literature and Science
ART 251-260	Studio art courses such as painting, printmaking, or sculpture
CMST 210	Interpersonal and Small Group Communication
THTR 230 or 102	Stagecraft or Acting
PHIL 221	Logic I

Among your 15 credits from 4 or 5 areas in Social Studies Group C, consider these courses:

GEOG 220	Meteorology
GEOG 320, 321, 322	Climatology, Geomorphology, Vegetation & Soils

Students in a 4 1/2 or 5 year or M.S. plan with time for elective credits should also consider:

CHEM 373, 405, 493	Environmental Quality, History of Science, or Research in Chemistry

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
MATH 140 GE: Calculus 1	4
ENGL 103: English Composition	3
PSED 150: Intro Teaching All Students	6
Subtotal	**17**

Spring

CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
MATH 141 GE: Calculus 2	4
PHYS 161 GE: Physics I	4
Group C Elective (see chemistry)	3
FIT Fitness Elective	1
Subtotal	**16**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
PHYS 162 GE: Physics II	4
PSED 250: Educational Psychology	3
ENGL Literature GE Elective	3
Group A Elective (see chemistry)	3
Subtotal	**17**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
PSED 350 Diverse Learners	3
GEOG 121: Physical Geology	3
Group A Elective (see chemistry)	3
Group C Elective (see chemistry)	3
Subtotal	**16**

Junior Year

Fall

CHEM 353: Physical Chemistry I	4
CHEM 385: Chemical Literature and Documentation	1
BIOL 114 GE: Introduction to Biology I	4
REED 350: Teaching of Reading in the Secondary School	3
Group A Elective (see chemistry)	3
Group C Elective (see chemistry	3
Subtotal	**18**

Spring

CHEM 354: Physical Chemistry II	4
CHEM 495: Chemistry Seminar	1
BIOL 115 GE: Introduction to Biology II	4
PSED 420: Education Seminar 1	3
Group A Elective (see chemistry)	3
FIT Fitness Elective	1
Subtotal	**16**

Senior Year

Fall

CHEM 315: Biochemistry	3
CHEM 371: Analytical Chemistry I	4
PSED 421: Seminar in Secondary Education II	3
PSED 446: Teaching Science in Secondary School	3
Group C Elective (see chemistry)	3
Subtotal	**16**

Spring

CHEM 499: Student Teaching Internship	1
PSED 430: Student Teaching Junior High School	6
PSED 431: Student Teaching Senior High School	6
Subtotal	**13**

Total Credits	**129**

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact the department by calling 570-422-3342

or visit www.esu.edu/chem

Chemical Biotechnology

Are you interested in...

- Chemistry
- Biology
- Exploration
- Investigation

Choose Chemical Biotechnology at ESU

- Small class sizes
- New, state-of-the-art facilities
- Practical field experiences
- Qualified, experienced faculty
- Frequent faculty interactions

Is chemical biotechnology a career path for me?

Career Potential

- Biochemist
- Product Developer
- Quality Control
- Technical Writer
- Bacteriologists
- Pharmaceutical Sales

Career Settings

- Chemical Manufacturers
- Hospitals
- Insurance Companies
- Laboratories
- Public Health Service
- Food and Drug Administration

More detailed career information is available from the department.

Bachelor of Science in Chemical Biotechnology

64-66 Semester Hours

- **Required major courses:** BIOL 114, 281, 411 or 439/477; CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 317, 350 or 353, 352, 371, 385, 415, 417, 420, 495.
- **An additional three electives** (minimum 8 credits) from CHEM 372, 418, 436, 461, 493, BIOL 330, 331, 380, 437, 465, must include at least one of these CHEM course and a laboratory component.
- **Corequisite courses:** PHYS 131, 132 or PHYS 161, 162; a minimum of two of MATH 110, 140, 141; CPSC 101.
- Please see the university requirements in this catalog.
- **Note:** Required quality point average: A minimum quality point average of 2.5 in chemistry courses is required for graduation. Students enrolling in this degree program are strongly encouraged to participate in undergraduate research or an internship opportunity.
- **All 300 and 400 level courses** required for the major must be completed at ESU.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
MATH 140 GE: Calculus I	4
BIOL 114 GE: Introductory Biology I	4
General Education Elective	3
Subtotal	**15**

Spring

CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
MATH 141 GE: Calculus 2 or MATH 110 GE: General Statistics	4 or 3
ENGL 103: English Composition	3
General Education Elective	3
Subtotal	**13 or 14**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
BIOL 281: Introduction to Biotechnology	3
Chemistry/Biology Elective	3 or 4
General Education Elective	3
Fitness Elective	1
Subtotal	**14 or 15**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
CPSC 101 GE: PC's and Their Uses in Science	3
PHYS 131 GE: Fundamental Physics I	4
General Education Elective	3
Fitness Elective	1
Subtotal	**15**

Junior Year

Fall

CHEM 315: Biochemistry	3
CHEM 317: Biochemistry Lab	1
PHYS 132 GE: Fundamental Physics II	4
BIOL 411: Molecular Biotech or BIOL 439/477 Molecular Biology	3 or 4
General Education Elective	3
Subtotal	**14 or 15**

Spring

CHEM 350: Physical Biochemistry	3

CHEM 352: Physical Biochemistry Lab	1
CHEM 420: Bioseparations (alternate years)	2
General Education Elective	6
Elective	3
Subtotal	**15**

Senior Year

Fall

CHEM 371: Analytical Chemistry	4
CHEM 415: Protein Chemistry	3
CHEM 417: Protein Chemistry Lab	1
Chemistry/Biology Elective	3 or 4
CHEM 385: Chemical Literature and Documentation	1
General Education Elective	3
Subtotal	**15 or 16**

Spring

Chemistry/Biology Elective	6 or 7
CHEM 495: Seminar	1
Elective	3
Elective	6
Subtotal	**16 or 17**
Total Credits	**120**

Chemistry/Biology Elective – 8 credits; one must have lab 300+ level

From: CHEM 372, 412, 418, 436, 461, 493, BIOL 330, 331, 380, 437, 465

For more information, contact the department by calling 570-422-3342 or visit www.esu.edu/chem

Biochemistry

Are you interested in...

- Working with people or animals
- Exploring
- Investigating
- Working with data and numbers
- Being creative

Choose Biochemistry at ESU

- Small class sizes
- New, state-of-the-art facilities
- Practical field experiences
- Qualified, experienced faculty
- Frequent faculty interactions

Is Biochemistry a career path for me?

Career Potential

- Biochemist
- Environmental Consultant
- Quality Assurance Manager
- University Research Assistant
- Food Inspector
- Medicine
- Medical Research

Career Settings

- Chemical Manufacturers
- Hospitals
- Insurance Companies
- Laboratories
- Public Health Service
- Food and Drug Administration

More detailed career information is available from the department.

Bachelor of Science in Biochemistry

Program Features

67 semester hours

- **Required major courses:** CHEM 121, 123, 124, 126, 233, 234, 235, 236, 315, 317, 350 or 353, 352, 371, 385, 419, 495.
- **Additional requirements:** 5 credits (lab required) from CHEM 415, 417, 418, 420, 442; 6 credits (lab required) from BIOL 330, 340, 380, 410, 418, 422, 430, 434, 437, 438, 439, 449, 465, 477.
- **Corequisite courses:** BIOL 114, 331, MATH 140, 141; PHYS 161, 162.
- Please see the university requirements in this catalog.
- All 300 and 400 level courses required for the major must be complete at ESU, with the exception of courses taken as part of the Pharmacy Transfer Program.

Program curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
MATH 140 GE: Calculus I	4
BIOL 114 GE: Introductory Biology I	4
General Education Elective	3
Subtotal	**15**

Spring

CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
MATH 141 GE: Calculus 2 or MATH 110 GE: Statistics	4 or 3
ENGL 103: English Composition	3
General Education Elective	3
Subtotal	**13 or 14**

Sophomore Year

Fall

CHEM 233: Organic Chemistry I	3
CHEM 235: Organic Chemistry I Lab	1
Biology Elective	3 or 4
General Education	3
FIT I	1
General Education Elective	3
Subtotal	**14 or 15**

Spring

CHEM 234: Organic Chemistry II	3
CHEM 236: Organic Chemistry II Lab	1
CPSC 101 GE: PC's and Their Uses in Science	3
PHYS 161 GE: Physics I	4
General Education Elective	3
FIT II	1
Subtotal	**15**

Junior Year

Fall

CHEM 315: Biochemistry	3
CHEM 317: Biochemistry Lab	1
PHYS 162 GE: Physics II	4
Elective	6
General Education Elective	3
Subtotal	**17**

Spring

CHEM 350: Physical Biochemistry	3
CHEM 352: Physical Biochemistry Lab	1
Biology Elective	3 or 4
General Education Elective	6
Elective	3
Subtotal	**16 or 17**

Senior Year

Fall

CHEM 371: Analytical Chemistry	4
Chemistry/Biology Elective	3 or 4
CHEM 385: Chemical Literature and Documentation	1
General Education Elective	3
Chemistry	3 or 4
Subtotal	**14-16**

Spring

CHEM 419: Biochemistry II	3
CHEM 495: Chemistry Seminar	1
Chemistry/Biology Elective	6 or 7
General Education Elective	3
Elective	3
Subtotal	**16 or 17**
Total Credits	**120**

Biology Electives – 9 credits; one must have lab 300+ level BIOL 330, 331, 422, 434, 449.

Suggested Chemistry Electives - CHEM 412, 496

For more information, contact the department by calling 570-422-3342 or visit www.esu.edu/chem.

Chemistry Minor

23 semester hours

- **Required courses:** CHEM 121, 123, 124, 126, (233, 234, 235, 236) or (353, 354), and seven semester hours from chemistry major courses.
- **Note:** A minimum quality point average of 2.0 in chemistry courses is required. A student majoring in a program offered by the Department of Chemistry cannot qualify for this minor. The following are recommended courses: CHEM 315, 373, 405, 493.
- All 300 and 400 level courses required for the minor must be completed at ESU.

Pharmacy Transfer Program

Coordinator: Professor William M. Loffredo, Chemistry Department.

The pre-pharmacy student spends their first two to three years at ESU taking the necessary core courses in order to satisfy the professional school entrance requirements. These core courses and other corequisite are unique for each professional school. The student applies to a pharmacy school as a transfer student. Students may indicate their intent to graduate with a Bachelor of Arts degree in either biochemistry or chemistry from ESU before transferring to the pharmacy school of choice. Upon completion of their second professional year at pharmacy school, they can transfer these credits from the pharmacy school back to ESU in order to fulfill the remaining credits for the Bachelor of Arts degree. Students may also declare a major in chemistry or related fields, finish the bachelor's degree at ESU, then transfer to a pharmacy school.

Faculty

Professors:

Sharmaine Cady (scady@po-box.esu.edu)

Michael Doherty (mdoherty@po-box.esu.edu)

Dennis Erb, Chair (derb@po-box.esu.edu)

Jon Gold (jgold@po-box.esu.edu)

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William Loffredo (wloffredo@po-box.esu.edu)

Robert Schramm (rschramm@po-box.esu.edu)

Associate Professors:

T. Michelle Jones-Wilson (mjwilson@po-box.esu.edu)

Richard Kelly (rskelly@po-box.esu.edu)

Alan Shaffer (ashaffer@po-box.esu.edu)

Assistant Professor:

John Freeman (jfreeman@po-box.esu.edu)

Course Descriptions

CHEM 100 Chemical Problem Solving: (1)

This course is a review of the methods of obtaining and analyzing quantitative measurements with emphasis on the mass, energy, and chemical changes which occur during chemical reactions. It is intended primarily for students who require or desire additional work in solving chemical problems.

CHEM 101 GE: Modern Chemical Science (3)

This course develops concepts of modern chemistry as a natural consequence of scientific thought and advancement. The atom is followed from its creation to its chemical reactivities. Inorganic chemistry is the main emphasis. It is primarily intended for students who wish to satisfy a general education requirement in science but is also an excellent preparatory course for General Chemistry I and General Chemistry II.

CHEM 104 GE: Chemistry for the Consumer DE (3)

This course is an introduction to the basic chemical principles that underlie the composition, applications, and safety of common consumer products and everyday materials. Among topics to be discussed are plastics, laundry products, personal-care products, fertilizers, pesticides, food additives, and electrochemical processes, and batteries.

CHEM 106 GE: Fingerprinting the Elements (3)

The periodic table will be used to introduce the descriptive chemistry of the elements. Periodic trends in chemical reactivity and physical properties provide the basis for predicting the inorganic behavior of an element. Computer software assignments are used to clarify periodic trends.

CHEM 108 GE: Environmental Chemistry (3)

This course is an introduction to basic chemical principles that are used as the basis for discussion of environmental issues. Among the topics included are air and water pollution, waste disposal, food additives, and pesticides.

CHEM 111 GE: Chemical Basis of Matter (3)

The fundamental concepts relating to matter, its properties, composition, structure, and reactions are presented. The student is introduced to the chemical elements, the periodic table, inorganic nomenclature, atomic theory and structure, chemical reactions and equilibria, solution chemistry, and nuclear chemistry. Applications to the health sciences of the principles presented will be emphasized.

This course may be useful in preparation for CHEM 121. Some algebraic experience is desirable.

CHEM 115 GE: Chemistry, Molecules and Life (3)

This course introduces the student to the principles and concepts of general, organic and biological chemistry and their applications to health-related issues. Intermolecular forces, acid-base theory, chemical reaction and equilibrium, and structural properties are used to explain metabolism, function, and causes of physiological changes at the molecular level.

CHEM 117 GE: Chemical Basis of Life Laboratory (1)

This course is a compilation of laboratory experiences designed to introduce the student to basic experimental techniques and investigations in general, organic, and biological chemistry. Emphasis is given to the physical methods used to synthesize, purify, and identify various chemical compounds. Prerequisite: CHEM 212 or concurrent registration in CHEM 115.

CHEM 121 GE: General Chemistry I (3)

This course presents language, principles, and applications of chemistry at a level designed for students majoring in the sciences. Topics include measurement, periodicity, stoichiometry, thermochemistry, atomic and electronic structure, bonding, and states of matter. Prerequisite: Intermediate algebra. Concurrent registration in CHEM 123 is required.

CHEM 123 GE: General Chemistry I Laboratory (1)

This course offers students an opportunity to safely observe and measure chemical changes. Written work emphasizes data treatment and logical interpretation. Principles include density, stoichiometry, atomic structure, and gas laws. Techniques include volumetric, gravimetric, and spectroscopic measurements. Concurrent registration in CHEM 121 is required.

CHEM 124 GE: General Chemistry II (3)

This course is a study of the concepts of equilibrium, thermodynamics, acid-base chemistry, kinetics, electrochemistry, and nuclear chemistry. Prerequisites: CHEM 121, 123. Concurrent registration in CHEM 126 required.

CHEM 126 GE: General Chemistry II Laboratory (1)

This course introduces students to more sophisticated measurement tools such as spectrophotometers, pH meters, precision thermometers, voltmeters, ammeters, and computers. Experiments focus on principles studied in CHEM 124. Prerequisites: CHEM 121, 123. Concurrent registration in CHEM 124 required.

CHEM 127 General Chemistry I Problem Solving (1)

This course will provide systematic, step-by-step approaches to problem solving in general chemistry, with emphasis on the factor label method as it is applied to stoichiometry, solution concentration terms, and thermochemistry. It is intended primarily for students who require or desire additional work in solving general chemistry problems. Concurrent registration in CHEM 121, General Chemistry I, is required.

CHEM 128 General Chemistry II Problem Solving (1)

This course is a continuation of CHEM 127, General Chemistry I Problem Solving. Concurrent registration in CHEM 124, General Chemistry II, is required. Prerequisites: CHEM 121, 123.

CHEM 212 GE: Chemical Basis of Life (3)

The fundamental concepts developed in CHEM 111 are applied to the study of organic molecules and functional groups and their importance to biochemical structures. The structure, properties, nomenclature, and reactions of the different classes of organic and biochemical compounds are discussed as well as isomerism and metabolism and their biochemical applications to the health sciences. Prerequisite: CHEM 111.

CHEM 233 Organic Chemistry I (3)

The structure, nomenclature, preparation, and reactions of organic compounds will be studied using modern theories and reaction mechanisms as unifying bases. Prerequisites: CHEM 121, 123, 124, 126 and 235 concurrent or completed or with permission of department.

CHEM 234 Organic Chemistry II (3)

This course is a continuation of CHEM 233, Organic Chemistry I. Prerequisites:CHEM 121, 123, 124, 126; and CHEM 233 and 235. CHEM 233 and 236 concurrent or completed or with permission of department.

CHEM 235 Organic Chemistry I Lab (1)

A series of experiments designed to introduce the student to the techniques and equipment used in the preparation and characterization of organic compounds will be undertaken. Prerequisite: CHEM 121, 123, 124, 126; and CHEM 233 concurrent or completed.

CHEM 236 Organic Chemistry II Lab (1)

This course is a continuation of CHEM 235, Organic Chemistry I Lab. Prerequisites: CHEM 121, 123, 124, 126, 233, 235; and Chem 234 concurrent or completed.

CHEM 237 Organic Chemistry I Problem Solving (1)

This course will present approaches to and the methods of problem solving in organic chemistry while utilizing the unifying theories of mechanism that are based upon classical and contemporary bond theories. It is intended primarily for students who require or desire additional work in solving organic chemistry problems. Concurrent registration in CHEM 233, Organic Chemistry I, is required.

CHEM 238 Organic Chemistry II Problem Solving (1)

This course is a continuation of CHEM 237, Organic Chemistry I Problem Solving. Concurrent registration in CHEM 234, Organic Chemistry II is required. Prerequisites: CHEM 233, 235.

CHEM 275 GE: Chemical Aspects of Drug and Alcohol Abuse (3)

This course is an introduction to the chemical aspects of alcohol and other drugs of abuse with emphasis on the pharmacological and physiological effects on the human organism. Prerequisite: CHEM 111 or 115 or 121.

CHEM 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

CHEM 315 Biochemistry (3)

This course is an introduction to the chemistry of living systems. Topics discussed include the chemistry of aqueous solutions; pH and buffer systems; the structure, functions and interactions of biomolecules; theories of ligand binding catalysis; the chemical reactions and regulation of major metabolic pathways; and introductory bioenergetics. Prerequisites: CHEM 234, 236.

CHEM 317 Biochemistry Laboratory (1)

A series of experiments designed to introduce the techniques and instrumentation of biochemistry will be utilized in investigating biomolecules and biochemical processes. Statistical methods for data analysis and interpretation of data published in biochemical journals will be integral components of this course. Prerequisite: CHEM 315 concurrent or completed.

CHEM 350 Physical Biochemistry (3)

This course introduces physical theory and methodology as applied to studies of biomolecules and biochemical processes. Topics covered include the importance of electrostatic interactions in determining structure and function of biomolecules; processes of denaturation; thermodynamics and bioenergetics; kinetics; solution properties of macromolecules; membrane dynamics; and the theories of a variety of physical methods of analysis. Prerequisites: CHEM 315, 317; MATH 140; PHYS 162.

CHEM 352 Physical Biochemistry Laboratory (1)

Experiments to be performed will provide experience with advanced analytical and physical techniques used in the analysis of biomolecules and biochemical processes. Examples of techniques to be used include absorption spectroscopic analysis of structure and kinetics; centrifugation; electrophoresis; blotting; equilibrium dialysis; purification methods and affinity ligand chromatography; and computer assisted data analysis. Independent design of some experiments, critical evaluation, and statistical analysis of data are stressed. Prerequisite: CHEM 350 concurrent or completed or CHEM 353.

CHEM 353 Physical Chemistry I (4)

This course is an introduction to theoretical physical chemistry including classical thermodynamics, statistical thermodynamics, and equilibrium. The use of computer techniques in the solving of problems and the treatment of laboratory data is an integral part of the course. Prerequisites: CHEM 124, 126; PHYS 162; MATH 141; CPSC 101.

CHEM 354 Physical Chemistry II (4)

This course is a continuation of CHEM 353 with emphasis on the theory and applications of quantum mechanics to simple chemical systems, introduction to spectroscopy and statistical mechanics. Prerequisite: CHEM 353.

CHEM 371 Analytical Chemistry I: Quantitative (4)

This course is a study of the theories and methods of gravimetic and volumetric analysis with a brief introduction to the use of some modern analytical instrumentation. Precision and accuracy in laboratory work and training in chemical calculations are emphasized. Prerequisites: CHEM 124, 126.

CHEM 372 Analytical Chemistry II: Instrumental (4)

This course is a study of principles and applications of modern analytical methods with emphasis on physiochemical measurements. Topics include electrochemical, spectrochemical, chromatographic, and radiochemical methods. Prerequisites: CHEM 353, 371.

CHEM 373 Environmental Quality: The Chemical Approach (4)

This course deals with the chemical aspects of environmental quality. Emphasis is placed on the identification, chemical characterization, and controls of pollutants. Topics include air, water, pesticides, food additives, heavy metals, and solid waste. Prerequisites: CHEM 124, 126.

CHEM 385 Chemical Literature and Documentation (1)

This course is a study of the various classes of chemical literature, techniques of searching the literature, and the proper documentation of experimental observations and literature references. Prerequisites: CHEM 234, 236.

CHEM 402 Contemporary Topics in Sciences (3)

This course deals with the nature and theoretical bases of recent noteworthy advances in science. Interdisciplinary in design, the course draws its content from the various disciplines of natural science. Emphasis is placed upon topics being reported upon in professional journals. This course is also listed as PHYS 402. Prerequisites: CHEM 353 and 354 and permission of instructor.

CHEM 405 The Development of Modern Physical Science (3)

This course examines past works and philosophical thought of noted physical scientists. Emphasis is placed on the nature of scientific discovery and the processes of science. This course is also listed as PHYS 405. Prerequisites: PHYS 161 and 162 and permission of instructor.

CHEM 412 Contemporary Topics in Biochemistry (3)

Topics presented in this course will cover a variety of advanced areas of biochemistry. Typically in one semester, the course will focus either on enzymes and regulation and integration of metabolism, or nucleic acids and recombinant DNA technology. Current journal articles will be used to supplement the textbook and provide the basis for discussions. The choice of focus and inclusion of other special topics will be determined by the needs of the students enrolled. Prerequisites: CHEM 315, 317, and 350 or 353.

CHEM 415 Protein Chemistry (3)

Building upon principles in the introductory biochemistry course, this course will elaborate on protein structure and function, and cover theoretical and practical aspects related to the purification, quantification, characterization, and modification of proteins. Students will be introduced to the use of protein data banks, computer modeling and prediction of protein structure, and protein design. Prerequisites: CHEM 315; 317; and 350 or 353.

CHEM 417 Protein Chemistry Laboratory (1)

Designed to accompany CHEM 415, this course focuses on laboratory protocols for the purification, quantification, and analysis of protein structure function used in industry and research. Computer-assisted structure prediction and analysis will also be used. Prerequisites: CHEM 315; 317; 350 and 352 or 353. Concurrent registration in CHEM 415 is required.

CHEM 418 Molecular Toxicity (3)

This course introduces students to the fields of toxicity and risk assessment. Emphasis will be on the molecular basis of toxicity and the biochemical impact of exposure to toxic agents. Prerequisites: CHEM 234, 236, 315.

CHEM 419 Biochemistry II (3)

This course explores the molecular logic of metabolism and protein synthesis and discusses how organic molecules function in biochemical processes and pathways. Biosynthetic reactions, the roles of cofactors and coenzymes, enzyme active sites, transcription and translation, regulation, advanced bioenergetics, and structure and patterns common to all biochemical transformations are explored and discussed. Prerequisites: CHEM 315, 317

CHEM 420 Bioseparations (2)

This laboratory-intensive course focuses on methods used to isolate biological molecules and cellular structures. Theory, instrumentation and protocols of chromatography, dialysis, filtration, centrifugation, electrophoresis and cell sorting will be covered. Prerequisites: CHEM 315, 317.

CHEM 433 Organic Chemistry III (3)

A study of the theoretical and practical aspects of the reactions, mechanisms and stereochemistry of organic compounds. Prerequisites: CHEM 234, 236, 354.

CHEM 436 Medicinal Chemistry (3)

This course is a survey of the various classes of pharmacological agents being utilized in the treatment of various disorders. Included are considerations of mode of action, design and synthesis, and current efforts in the field of development of new drugs. Prerequisites: CHEM 234, 236, 353.

CHEM 441 Inorganic Chemistry I (3)

This course is a study of the periodic properties and descriptive chemistry of the chemical elements and their inorganic compounds, ionic solids, equilibria in aqueous and nonaqueous systems, and acid-base concepts. Prerequisites: CHEM 123, 124, and 353 (concurrent registration in CHEM 353 permitted).

CHEM 442 Inorganic Chemistry II (3)

This course is a continuation of CHEM 441 with emphasis on a study of the theories of bonding, structure, and reactivities of inorganic, coordination, and organometallic compounds. The magnetic and spectroscopic properties of coordination compounds and the descriptive chemistry of selected group elements will also be discussed. Prerequisites: CHEM 353, 441.

CHEM 452 Introduction to Computational Chemistry and Molecular Modeling (3)

This course is a study of selected topics in theoretical chemistry including quantum mechanics, group theory and symmetry, and molecular orbital theory. The use of computer programs in the illustrations of chemical principles will be emphasized. Prerequisites: CHEM 353, 354.

CHEM 460 Advanced Chemistry Laboratory (2)

This course is designed to expose students to various experimental techniques needed to conduct chemical research. The course integrates synthesis, separation, purification, analysis, and characterization techniques. Instrumental techniques used include UV-VIS, FT-IR, FT-NMR, spectroscopy, HPLC, GC-MS & various optical methods used for characterizing organic and inorganic compounds. Prerequisites: CHEM 372, 433, 442 (or concurrent).

CHEM 461 Polymer Chemistry (3)

The basic concepts of polymer chemistry are introduced in this course. Topics included will be the mechanisms and kinetics of polymerization, the synthesis of polymers, and the relationships between molecular structure, conformation, and morphology of polymers and their chemical and physical properties. Prerequisites: CHEM 234, 236, 353.

CHEM 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular academic discipline. Independent study is a process through which a student either sharply increases his/her already advanced knowledge of a subject matter or increases his/her appreciation about an academic discipline that is correlative with a student's advanced knowledge of a subject. The proposed independent study must be submitted to the department for approval. The faculty member supervising the independent study must provide a minimum of five (5) hours of time per credit hour upon request of the student.

CHEM 486 Field Experience and Internships (Semester hours arranged)

Prerequisites: CHEM 123, 124.

CHEM 493 Research in Chemistry (3)

This course is an experimental investigation selected by the student in consultation with a member of the faculty and carried out under the faculty member's guidance. Prerequisites: Senior standing and permission of the department.

CHEM 495 Chemistry Seminar (1)

This course is a series of lectures and discussions on chemical topics by faculty, visitors, and students; each registered student is required to give a seminar during the semester. Prerequisites: Permission of the department; CHEM 236, 385.

CHEM 499 Student Teaching Internships (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy.

Communication Studies

College of Arts and Sciences

The Faculty of Arts and Letters
Fine and Performing Arts Center, Room 202
570-422-3759...www.esu.edu/cmst

About the Program
The mission of the Department of Communication Studies is to prepare students for civic participation in an increasingly complex world that requires sophisticated practical, critical, and theoretical understandings of human communication.

The department offers coursework and degree programs that focus on the history, theory, and critical evaluation of human and mediated communication in the areas of broadcasting, speech communication, media studies, and public relations.

Communication majors secure employment in a variety of fields after graduation including journalism, sales, advertising, public relations, media development, and broadcasting.

Some graduates pursue advanced degrees at the masters or doctoral level. The department offers a Minor in Communication Studies to students majoring in other disciplines.

Several options are available to students majoring in Communication Studies. Four tracks are offered: Broadcasting, Media Studies, Speech Communication and Public Relations. Students may also choose to minor in Communication Studies.

Is communication studies a career path for me?

Career Potential

- Public relations specialist
- Advertising executive
- Media developer
- Broadcaster
- Journalist
- Speech writer
- Public affairs specialist
- Government official
- Media critic
- Sales representative

More detailed career information is available from the department and from the department website: www.esu.edu/cmst.

Are you interested in...

- Communicating persuasively
- Analyzing data
- Gathering information, preparing stories and informing the public
- Becoming a public figure

Choose Communication Studies at ESU

- Small class sizes
- Practical field experiences
- Qualified, experienced faculty
- Frequent faculty interactions

Bachelor of Arts in Communication Studies

39 semester hours
Students must complete the Core Curriculum and the specified courses within one of three different tracks.

- **Core Curriculum (18 semester hours):** CMST 111, 126, 250, 310, 365, 495.
- **Track I.** Broadcasting (21 semester hours): CMST 219 (taken twice for a total of three semester hours) or MCOM 210, CMST 229, 315, either 410 or 440, 486; and six semester hours chosen from the following: CMST 337, 342, 348, 364, 410 or 440 (either 410 or 440 can be taken as an elective if the other is chosen as a required course).
- **Track II.** Media Studies (21 semester hours): CMST 136, 163, 348, 367; and nine semester hours chosen from the following: CMST 307, 342, 364, 370, 410, 486 .
- **Track III.** Speech Communication (21 semester hours): CMST 253, 329; six semester hours chosen from the following: CMST 220, 230, 235; and nine semester hours chosen from the following: CMST 331, 333, 350, 363, 367, 415, 429, 465-H, 486.
- **Track IV.** Public Relations (21 semester hours plus 18 semester hours of "core curriculum"): ENGL 215, 305, CMST 255, 355, and nine semester hours chosen from the following (no more than 3 semester hours from ENGL): CMST 229, 329, 350, 367, 410, 440, 486, ENGL 306, 307, 315, 316.
- **Residency Requirement:** The student's final 18 semester hours in the major must be completed in residence.
- Please see the university requirements in this catalog.

Program Curriculum Plan

Suggested Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

CMST 111 GE: Speech Communication or CMST 126 GE: Introduction to Mass Media	3
ENGL 103: English Composition	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Elective Course	3
Subtotal	**15**

Spring

CMST 111 GE: Speech Communication or CMST 126 GE: Introduction to Mass Media	3
General Education Elective – Humanities	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Elective Course	3
Subtotal	**15**

Sophomore Year

Fall

CMST 250: Analysis of Communication Theory	3
Required Course in CMST Track	3
General Education Elective – Natural Science	3
General Education Elective – Humanities	3
Elective Course	3
Subtotal	**15**

Spring

CMST 310: Intercultural Communication	3
Required Course in CMST Track	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Elective Course	3
Fitness Course(s)	2
Subtotal	**17**

Junior Year

Fall

CMST 365: Communication Research or 300-400 Track Elective	3
Required Course in CMST Track	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Elective Course	3
Subtotal	**15**

Spring

CMST 364: Communication Research or 300-400 Track Elective	3
Required Course in CMST Track	3
General Education Elective – Humanities	3
General Education Elective – Social Science	3
Elective Course	3
Subtotal	**15**

Senior Year

Fall

CMST 495: Seminar in Communication Studies or 300-400 Level Track Elective	3
300-400 Level Track Elective	3
Elective Course	3
Elective Course	3
Elective Course	3
Subtotal	**15**

Spring

CMST 495: Seminar in Communication Studies or 300-400 Level Track Elective	3
300-400 Level Track Elective	3
Elective Course	3
Elective Course	3
Elective Course	3
Subtotal	**15**
Total Credits	**122**

For more information, contact the department by calling 570-422-3694 or visit www.esu.edu/cmst

Communication Studies Minor

18 semester hours.

Required courses: CMST 111, 126, and 250, and nine semester hours of CMST coursework (at least 6 semester hours at the 300-400 level). Selection of these courses is done after consultation with a Communication Studies faculty member.

Internship Opportunities

The Communication Studies Department's Internship Program is designed to provide students with real-life working experiences related to the field of communication.

Internships are considered essential in the areas of broadcasting and public relations, but are also helpful in preparing students for many other communication areas, including graduate school.

The broadcasting track requires students to take a three-credit internship (CMST 486), but students in the other tracks are also encouraged to apply.

Faculty

Professors:

Joseph Ashcroft (jashcroft@po-box.esu.edu)

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Associate Professors:

Patricia Kennedy (pkennedy@po-box.esu.edu)

Andrea McClanahan, Chair (amcclanahan@po-box.esu.edu)

Assistant Professor:

Cem Zeytinoglu (czeytinoglu@po-box.esu.edu)

Course Descriptions

*Courses marked with * fulfill the requirements for Fine Arts.*

*Courses marked with ** fulfill the requirements for Performing Arts.*

CMST 111 GE: Speech Communication (3)**

This course includes an introduction to the study and application of some principles of dyadic communication, small group interaction, and public speaking, in addition to listening skills. Attendance requirement will be enforced.

CMST 126 GE: Introduction to Mass Media (3)*

This course is a survey of the defining characteristics and histories of each of the media in mass communication. The focal point in each media is the relationship of the mass media to society.

CMST 136 GE: Popular Culture and Communication (3)*

This introductory course affords the student an opportunity to systematically examine popular culture: the cultural environment in which virtually all Americans have lived during the twentieth century. Emphasis is placed upon the study of popular artifacts, arts, and rituals as communicators of cultural belief.

CMST 163 GE: Introduction to Film Study (3)*

This course is designed to provide the students with an understanding of the elements necessary for film analysis toward a development of an appreciation for film as art. Representative films are screened in order to study the impact of the art form on modern society and on the individual.

CMST 219 Radio Practicum (1.5)

This course introduces students to basic operations of a radio station. Students will learn practical skills in policies, strategies, and broadcasting techniques of radio stations. The course may be repeated for a maximum of 3 credits. Pass/Fail course.

CMST 220 GE: WS: Gender Differences and Human Communication (3)**

This course is designed to examine the ways in which women and men communicate differently in interpersonal, work, and family settings and to discuss ways in which both men and women can improve communication and reduce conflict. Attendance requirement will be enforced. Prerequisite: CMST 111.

CMST 222 The Dynamics of Human Interpretation (3)

This course is an introduction to the process of interpretation as it relates to an overall understanding of the various forms of communication. Emphasis is placed upon the nature of meaning and language, the concept of text, and the assessment of the communicative act through various methods of criticism. Prerequisites: CMST 126 and completion of at least 30 credit hours.

CMST 229 Broadcast Journalism (3)

Radio and television are studied as media for news and information. Included are basic principles of newscasting, on-the-spot coverage, editing, writing, and delivery of news; use of wire copy; news policy and censorship codes; and theory and practice in station news operations. Prerequisite: CMST 126.

CMST 230 GE: Small Group Communication (3)**

This course not only teaches skills useful for effective group interaction but also explores theories that describe and explain group dynamics in various contexts. Topics covered in this course typically include: 1) general systems theory; 2) analysis of group interaction; 3) group cohesion enhancing techniques; 4) critical and creative problem solving skills; 5) leadership skills; and 6) conflict management. Prerequisite: CMST 111.

CMST 235 GE: Interpersonal Communication (3)**

This course introduces the processes and functions of communication in two-person and familial contexts. Emphasis is placed on the different types of interpersonal communication occurring in romantic relationships, friendships, and family relationships to help students improve their abilities as communicators throughout their daily interpersonal interactions.

CMST 250 Analysis of Communication Theory (3)

This course analyzes the dominant theories of human interaction, both general theories and those specific to particular contexts. Prerequisites: CMST 111 or 126 and completion of at least 30 credit hours.

CMST 253 GE: Public Speaking (3)**

This course deals with instruction and practice in selecting, analyzing, arranging, and delivering material for different types of public speeches; consideration of various methods of appeal, rhetorical devices, selected speeches, audience analysis and principles of criticism. Attendance requirement will be enforced.

CMST 255 Introduction to Public Relations (3)

This course will acquaint students with introductory concepts pertaining to public relations and communication in the public sphere. The course will emphasize the significance of public communication in a democracy and encourage critical thinking regarding the issues, functions, contributions, and theories of public relations. The course will provide a forum for student discussion of and engagement with both theoretical and practical aspects of public relations via its civic, corporate, and legal components within a historical context. Prerequisites: CMST 126.

CMST 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students, or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

CMST 307 GE: Art and History of the Film (3)

This course studies the historical and aesthetic developments of the cinema, emphasizing the aesthetic aspects of film in an attempt to develop critical standards through surveying the methods and problems of film. Narrative, non-narrative, fictional, and documentary films are screened and discussed. Prerequisite: CMST 163.

CMST 310 Intercultural Communication (3)

Intercultural Communication is communication between persons who share different patterns of thoughts (attitudes, beliefs, values, and opinions) and behaviors. This course will deal with communication between men and women, black and white, young and old, straights and gays, students and teachers, and other subcultures in conflict. Prerequisite: CMST 111 or 126.

CMST 315 Voice for Broadcasting (3)

This course reviews the variables of the voice and their development as they pertain to the medium of radio and television. Students are given the opportunity to study and practice projecting their personalities through the medium of their respective voices as well as an opportunity to develop their vocal skills for broadcasting news, sports, interviewing, and educational programming. Prerequisites: CMST 111, 229.

CMST 329 GE: Rhetorical Perspectives (3)**

This course is designed to familiarize the students with various theoretical perspectives which attempt to explain how we are persuaded to our beliefs and actions. Attendance requirement will be enforced. Prerequisite: CMST 111.

CMST 331 GE: Advanced Public Speaking (3)**

Advanced Public Speaking builds upon a student's general knowledge of communication gained in Public Speaking. The course enables a student to gain more experience in composing, delivering,

and criticizing public speeches. Students will refine techniques in their delivery in various modes of public speaking. Attendance requirement will be enforced. Prerequisite: CMST 253.

CMST 333 GE: Argumentation and Persuasion (3)**

This course studies the ways beliefs are changed or instilled in an audience as a result of a message's argumentative or persuasive qualities. The principal mode of message studied is that of the public speech, but other messages will be examined critically to determine how those messages function argumentatively and persuasively. Attendance requirement will be enforced. Prerequisite: CMST 253.

CMST 337 Broadcast Management (3)

This course deals with the organization and management of radio and television stations: personnel, programming formats, sales, audience analysis, social and governmental responsibility. Prerequisite: CMST 126.

CMST 342 Popular Music as Cultural Text (3)

This course will examine the importance of contemporary American popular music as a communicative medium and signifying practice which can affect cultural and subcultural identity. Prerequisite: CMST 136.

CMST 348 GE: Media Criticism (3)*

This course develops a variety of methods for analyzing both the functions and the products of mass media. After examining the cultural contexts in which the media operate, the course will establish important critical methods and offer opportunities to apply these methods in critical practice. Prerequisite: CMST 126.

CMST 350 Organizational Communication (3)

This course teaches theories that describe and explain the roles and functions of human communication within an organization. Communication is examined from such perspectives as human relations theory, system theory, theory of organizational culture and critical theory. In addition, this course links theory with practice by engaging students in observing and studying communication practices in actual organizational settings. Prerequisite: CMST 111.

CMST 355 Public Relations Theory (3)

This course will examine significant public relations and communication theories. Students will explore the work of key scholars in order to understand the current state of public relations theory. Public Relations Theory will also investigate the history of public relations as a field. The course is designed to help students look critically at the foundations, implications, and consequences of public relations theory. Prerequisites: CMST 255.

CMST 363 Psychology of Speech (3)

This course is a study of the secondary variables that influence communicational interaction. Emphasis is placed upon developing a concept of communicational context, situation, and circumstance, as well as developing skills of interpreting the unspoken messages which underlie communicational transactions. Prerequisite: CMST 250.

CMST 364 GE: Studies in Television Genre (3)*

This course examines a variety of television genres, allowing the student to develop an understanding of the nature of American formulaic television through critical analysis of programming. Prerequisite: CMST 136.

CMST 365 Communication Research (3)

This course will familiarize the student with the vast array of methods employed in the field of mass communication research and to provide him/her with a basic fluency in each of these methods. Prerequisite: CMST 111 or CMST 126, CMST 222 or CMST 250, and Junior-Level Standing (completion of 60 credits).

CMST 367 Advertising and Propaganda (3)

This course will provide an introduction to the special type of persuasive communication that characterizes both advertising and other forms of propaganda. Advertising, other forms of sociological propaganda, and political propaganda will be studied in terms of their relation to society, their techniques, and the ethical issues that they raise. Prerequisite: CMST 126.

CMST 370 GE: Film Genres (3)*

These courses will analyze significant films of either one or two genres in an attempt to define the characteristics of each genre and understand their cultural meaning. Readings will focus on the genres' historical development with emphasis on their relation to the social currents of the times. Representative films will be screened. Selected genres will vary with each offering of the course. Genres studied will include: the comedy film, the science fiction film, the musical film, the documentary film, the film noir, and the horror film. Prerequisite: CMST 163.

CMST 410 Comparative Media (3)

This course will expose students to media from around the world. Students will learn how to compare media content, formats, systems, and ownership structures in an effort to better understand underlying assumptions that help shape our perceptions of the world. Prerequisites: CMST 126, 310.

CMST 415 Genres of Rhetoric (3)

This course will examine one or two rhetorical genres to define the characteristics of each and understand its nature, meaning, and influence within a particular cultural movement. Students will apply classical and contemporary rhetorical theories to genres such as presidential, war, feminist, and environmental rhetoric. Representative examples of speeches, letters, essays, advertisements, and demonstrations will be analyzed. Prerequisites: CMST 111, 329.

CMST 429 Criticism of Rhetoric and Public Address (3)

This course is designed to develop and enhance the student's critical response to rhetorical discourse in the area of public address. The course includes a survey of rhetorical theory and opportunity to evaluate critically examples of rhetorical discourse from these various theoretical points of view. Prerequisites: CMST 111, 329.

CMST 440 Ethical and Legal Issues in Broadcasting (3)

This course will cover ethical and legal issues that confront broadcasters in their daily routine. Topics include programming decisions, FCC regulation, community standards, personnel management and precedent-setting court cases. Prerequisites: CMST 126 or 229; PHIL 110 or 231.

CMST 465-H Scapegoats and Witchhunts (3)

This course is an interdisciplinary seminar which explores the phenomena of cultural scapegoating and witchhunting. The primary perspectives will be rhetorical, historical, and psychological. By focusing on various targeted individuals and groups, past and present, the seminar will culminate in a synthesized view based on

the instructors' various disciplines. Prerequisite: Junior standing in Honors Program or permission of instructor and Honors Program Director.

CMST 466-H Engendering Communication: Shaping Our Society and Selves (3)

Gendered identification shapes our sense of self, the way we communicate, the way we are perceived by others, and the manner in which we act in the world. Through a variety of readings, this seminar will explore the nature and implications of gender and the way it shapes our interactive lives. This course is designed as an interdisciplinary Honors Junior-level seminar. Prerequisite: Junior standing in Honors Program or permission of instructor and Honors Program Director.

CMST 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis. Open to a limited number of students who are juniors and seniors or who have completed 12 credit hours in Communication Studies and who receive departmental approval. A student engaging in Independent Study will complete a minimum of five (5) hours per credit of exclusive conference time with the faculty member in charge of the Independent Study relative to the design, consultation, and evaluation of the study. The student must demonstrate competencies appropriate to the level of the course. The standards shall include performance in the subject, explication of that work by written or oral reports, and evidence of a willingness to meet the commitments of the discipline.

CMST 486 Field Experience and Internship (Semester hours arranged)

Field experience gained through placement in a practical on-the-job situation under professional supervision. Credits from an internship cannot be applied to the elective requirements of the department's degree programs. Prerequisite: completion of all basic courses required in the major. (Pass/Fail course).

CMST 495 Seminar in Communication Studies (3)

The course consists of discussion and research of selected topics in communication theory, criticism, and application. It is designed to further those research methods characteristic of professional competence in the field of Communication Studies. Prerequisite: Senior class standing.

CMST 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy. Prerequisite: Qualification to student teach. Concurrent registration in PSED 430 or 431 required.

Computer Science

College of Arts and Sciences

The Faculty of Science
Science & Technology Building, Room 318
570-422-3666.....www.esu.edu/cpsc

About the Program

Two baccalaureate degree programs are offered by the Computer Science Department: a Bachelor of Science in Computer Science and a Bachelor of Science in Computer Security. These programs closely follow the recommended curriculum of the Association for Computing Machinery(ACM) and National Security Agency (NSA). The Bachelor of Science in Computer Science Program is accredited by the Accrediting Board for Engineering and Technology. The Computer Security Programs have led to the university being named a National Center for Academic Excellence in Information Assurance (Computer Security) by the U.S. Department of Homeland Security and NSA. We also offer a Computer Science Applications minor.

Admission standards are high, and extensive class work, laboratory and project involvement, motivation and commitment are required for successful development as Computer Science and Computer Security problem solvers.

In recent years, the department has received more than $7 million in research grants from outside sources. This has provided a very rich laboratory environment, as well as research opportunities for select undergraduates.

The department boasts an employment rate for graduates of approximately 100 percent in the field. Graduating students have been hired by the following organizations: Cisco, Coordinated Health, Hershey Foods, IBM, Lockheed Martin, Merck, New York Life, NSA, Pocono Medical Center, QuickChek, Sanofi Pasteur, Space and Navel Warfare Systems, U.S. Army R&D, Vanguard, Verizon, and Vonage.

Are you interested in...

- Analyzing problems logically
- Solving problems using computers
- Knowing how computer works
- Building a solid career path
- Applying computer knowledge to everyday life
- Growing with ever-changing technology

Choose Computer Science at ESU

- Excellent computer facilities
- Secure 24/7 computer science lab access
- Ubiquitous computing environment
- Faculty committed to teaching excellence
- Advanced systems for upper-level classes / research

Is computer science a career path for me?

Career Potential

- Software Engineer/Developer
- E-commerce Engineer
- IT Engineer/Manager
- System Analyst/Manager
- Game Programmer/Developer
- Computer Scientist/Engineer

Career Settings

- All companies using computing
- IT companies
- E-commerce industries
- Industries using computers
- Computer embedded industry
- Research/Technology centers

More detailed career information is available from the department.

Bachelor of Science in Computer Science

47 Semester Hours

- **Required major courses:** CPSC 130, 131, 141, 230, 232, 250, 321, 330, 340, 430, 486; 12 semester hours of Computer Science electives numbered 220 and above.
- **Mathematics corequisite courses:** MATH 140, 141, 220, 311, 320.
- **Distributive corequisite courses:** ENGL 203; CMST 111; and one year of science courses that include laboratories: BIOL 114, 115, or CHEM 121, 123, 124, 126, or PHYS 161, 162; PHYS 240 may be substituted for PHYS 162.
- **Additional Requirements:** Must have a total of 30 credits in Math and Science. The following courses count toward this requirement: Math (courses numbered 140 or higher), Biology (all), Chemistry (106 or higher), and Physics (106 or higher).

Notes:

1. All CPSC and MATH courses used to meet the requirements in the major must be completed with a grade of C or better.
2. Students who have an interest in one of the following areas are strongly advised to include the listed courses in their program of studies:
   - Scientific Computing - CHEM 121, 123, 124, 126; PHYS 161, 162.
   - Business and Economics - ECON 111, 112, and Accounting courses.
   - Graduate Studies - MATH 421, 440.
3. Students transferring into Computer Science or Computer Security, whether from off campus or on campus, must meet departmental admissions criteria. The criteria may be obtained from the department chair.
4. In a program intensive course, each student will be given a variety of assignments where he or she must create extensive, original and executable computer programs. The instructor will rigorously review each student's source code to determine its correctness, efficiency, originality, and adherence to documentation and style guidelines.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CPSC 130 GE: Introduction to Computer Programming I	3
MATH 140 GE: Calculus 1	4
ENGL 103: English Composition	3

General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

CPSC 131 GE: Introduction of Computer Programming II	3
CPSC 141: Introduction to Computer Organization	3
MATH 141 GE: Calculus 2	4
CMST 111 GE: Speech Communications	3
General Education Elective	3
Subtotal	**16**

Sophomore Year

Fall

CPSC 230: Programming Principles and Practice	3
CPSC 232: Introduction to Assembler Programming	3
MATH 220: Discrete Mathematical Structures	3
Science Sequence	4
General Education Elective	3
Subtotal	**16**

Spring

CPSC 250: Data Structures and Algorithms	3
MATH 311: Statistics I	3
ENGL 203: Advanced Composition	3
Science Sequence	4
General Education Elective	3
Subtotal	**16**

Junior Year

Fall

CPSC 330: Programming Languages	4
CPSC 340: Operating Systems Concepts and Design	4
MATH 320: Linear Algebra	3
General Education Elective	3
Fitness Elective	1
Subtotal	**15**

Spring

CPSC 321: Issues in the Practice of Computer Science	3
Computer Science Elective	3
Computer Science Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Senior Year

Fall

CPSC 430: Software Engineering	3
Computer Science Elective	3
General Education Elective	3
General Education Elective	3
Elective	3
Subtotal	**15**

Spring

CPSC 486: Computer Science Internship	3
Computer Science Elective	3
Elective	3
Elective	3
Subtotal	**12**
Total Credits	**122**

For more information, contact the department by calling 570-422-3666 or visit www.esu.edu/cpsc

Computer Science Applications Minor

20 semester hours

- **Required concentration courses**: CPSC 111, 141, 151 and three additional courses from among the following: either CPSC 100 or 101, but not both; CPSC 105, 110, or any CPSC courses number 200 or higher; ECON 332, 415; MGT 451; HRTM 351; MATH 311, 411, 416, 470, 480; MCOM 355, 475, PHYS 111; SMGT 346.
- **Additional requirements:** to complete the minor, the student must earn a "C" grade or better in all six courses applied to the minor, and must complete at least three CPSC courses at ESU with a "C" grade or better.

Computer Security

Is computer security a career path for me?

Career Potential

- Network Administrator
- Security Administrator
- Information Assurance Specialist
- Security Developer
- Information Security Officer

Career Settings

- Major corporations
- Defense industry
- Law Enforcement
- Software houses
- IT and E-commerce industries
- Homeland Security industry
- Research/Technology Centers

More detailed career information is available from the department.

Bachelor of Science in Computer Security

55 semester hours

- **Required major courses:** CPSC 130, 131, 141, 230, 232, 250, 325, 326, 340, 445, 448, 453, 460, 461, 487; nine semester hours of Computer Science electives numbered 220 and above.
- **Mathematics corequisite courses:** MATH 140, 141, 220, 311.
- **Distributive corequisite courses:** ENGL 204, CMST 111; and one year of science courses that include laboratories: BIOL 114, 115 or CHEM 121, 123, 124, 126 or PHYS 161, 162; PHYS 240 may be substituted for PHYS 162.

Notes:

1. All CPSC and MATH courses used to meet the requirements in the major must be completed with a grade of C or better.
2. Students who have an interest in one of the following areas are strongly advised to include the listed courses in their program of studies:
   - Scientific Computing - CHEM 121, 123, 124, 126; PHYS 161, 162.
   - Business and Economics - ECON 111, 112, and Accounting courses.
   - Graduate Studies - MATH 421, 440.
3. Students transferring into Computer Science or Computer Security, whether from off campus or on campus, must meet departmental admissions criteria. The criteria may be obtained from the department chair.
4. In a program intensive course, each student will be given a variety of assignments where he or she must create extensive, original and executable computer programs. The instructor will rigorously review each student's source code to determine its correctness, efficiency, originality, and adherence to documentation and style guidelines.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

CPSC 130: GE: Introduction to Computer Programming I	3
ENGL 103: English Composition	3
MATH 140 GE: Calculus 1	4
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

CPSC 131 GE: Introduction to Computer Programming II	3
CPSC 141: Introduction to Computer Organization	3
MATH 141 GE: Calculus 2	4
CMST 111 GE: Speech Communications	3
General Education Elective	3
Subtotal	**16**

Sophomore Year

Fall

CPSC 230: Programming Principles and Practice	3
CPSC 232: Introduction to Assembler Programming	3
MATH 220: Discrete Mathematical Structures	3
Science Sequence	4
General Education Elective	3
Subtotal	**16**

Spring

CPSC 250: Data Structures and Algorithms	3
MATH 311: Statistics I	3
ENGL 204: Technical Writing	3
Science Sequence	4
General Education Elective	3
Subtotal	**16**

Junior Year

Fall

CPSC 325: Fundamentals of Security Engineering I	3
CPSC 340: Operating Systems Concepts and Design	4
Computer Science Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

CPSC 326: Risk Analysis/Certification & Accreditation	3
CPSC 445: Networking and Data Communications	3
CPSC 453: Database Systems	3
General Education Elective	3

General Education Elective	3
Subtotal	**15**

Senior Year

Fall

CPSC 460: Applied Computer Cyptograghy	3
CPSC 461: Legal Impacts on Computer Security Solutions	3
Computer Science Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**13**

Spring

CPSC 448: Applied Network Security	3
CPSC 487: Security Engineering Internship	3
Computer Science Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**13**
Total Credits	**121**

For more information, contact the department by calling 570-422-3666 or visit www.esu.edu/cpsc

Faculty

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Assistant Professors:

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Course Descriptions

CPSC 100 GE: Personal Computers and Their Uses (3)

This course is an introduction to personal computers (PCs) for non-science majors. The course teaches the use of standard PC software, including an operating system, a word processing program, a spreadsheet, a presentation package, and a database package. The course also provides a non-technical understanding of how computers function, and how society uses computers to obtain and manage information. Students may receive credit for either CPSC 100 or CPSC 101, but not both.

CPSC 101 GE: Personal Computers and Their Uses in the Sciences (3)

This course, which is similar in content to CPSC 100, emphasizes the use of personal computers to solve real world engineering and scientific problems. Topics particular to CPSC 101 include statistical analysis packages, computer-controlled scientific instrumentation, and very high performance computing. Students may receive credit for either CPSC 100 or CPSC 101, but not both.

CPSC 103 GE: Introduction to Information Technology (3)

In modern society, information technology is pervasive, ubiquitous, and firmly integrated into the most fundamental organizational processes. As such, an understanding of information technology and its applications are increasingly required in an ever broader range of disciplines. This course provides students with a thorough introduction to information technologies, applications, and issues. Special emphasis is placed on the role of information technology in enabling organizational strategies, processes, and problem solving.

CPSC 105 GE: PC Security and Privacy (3)

This course deals with the basic concepts of computer security and privacy: PC basics, networking basics, confidentiality, integrity, and availability of data, authentication, cryptography, threats to computer security such as viruses, computer security controls such as antivirus software and firewalls, and security and privacy on the Internet. These topics are discussed in a manner to promote awareness of computer security issues, not technical knowledge.

CPSC 108 GE: Games, Robots, and Intelligence (3)

This course provides a gentle introduction to computer concepts and technologies for the novice. Fundamentals os computer hardware and software will be covered. Students will gain direct experience with interesting computer science technologies (such as computer games and robotics) through hands on exercises. In addition, computer-related social issues (such as privacy), emerging trends in computing will also be discussed.

CPSC 110 GE: Excursions in Computer Programming (3)

This course is intended to give the student with no programming experience and introduction to algorithmic methods and can be used as preparatory to CPSC 111. The principles of algorithm and computer program design are presented and practiced using a simple programming language. Course is not open to students with credit for CPSC 111 or above.

CPSC 111 GE: Introduction to Computer Programing and Problem Solving (3)

This course, a first course in computer science, is intended mainly for students who either majoring or concentrating in computer science. It teaches algorithmic problem solving, emphasizing the use of top-down Object Oriented programs development to design and implement programs in the Java programing language. No prior familiarity with computer programing is assumed. This is a programing intensive course.

CPSC 130 GE: Introduction to Computer Programming I (3)

This course covers fundamental concepts and terminology of computer programming. Topics will include programming basics, debugging, and object-oriented programming. This is a programming intensive course. The course requires no programming background.

CPSC 131 GE: Introduction to Computer Programming II (3)

This course covers concepts and development of object-oriented programs. Topics will include classes and objects, one dimensional arrays, lists, stack, queues, and searching and sorting algorithms. This is a programming intensive course. Pre-requisite(s): CPSC 130

CPSC 141 Introduction to Computer Organization (3)

This course presents the organization and operation of the classic, single-processor digital computer. Topics include the central processing unit, primary and secondary memory, common peripheral devices, and computer-usable communications hardware. Also featured is an overview of parallel architectures. Co-requisite(s): Concurrent enrollment in CPSC 130.

CPSC 151 GE: Linear Data Structure & Elementary Algorithm Analysis (3)

This course discusses the implementation and use of common one-dimensional data structure, including typed files, set, strings, list, queues, and stacks. Array-based and pointer-based implementations for these structure are developed, together with iterative and recursive algorithms fro structure access and manipulation. Other topics covered include the concept of an abstract data type searching and sorting, and an introduction to algorithms analysis. This programing intensive course. Pre-requisite: CSPC 111 with minimum of D

CPSC 200 GE: Advanced Personal Computers and Their Uses (3)

This course builds on CPSC 100. Advanced topics in word processing and spreadsheets will be covered. Integration of databases and spreadsheets as well as programming in an appropriate language will be studied. Students will learn how to use operating system commands and will write batch files. Pre-requisite(s): CPSC 100 or 101.

CPSC 211 Scientific Computing with Fortran (3)

Scientific computing uses FORTRAN as a vehicle for numerical solutions to applied mathematical problems. Some techniques include polynomial curve fitting, roots of transcendental equations, numerical integration and differentiation, simulations, initial value and boundary value problems in differential equations, and simultaneous algebraic and differential equations. Co-requisite(s): MATH 141. This course cannot be counted toward the elective requirements for computer science majors. This course is usually offered in alternate years.

CPSC 230 Programming Principles and Practice (3)

This course covers basic principles and techniques of program development. Topics will include implementation of elementary data structures and introduction to basic algorithm analysis. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131.

CPSC 232 Introduction to Assembler Programming (3)

This course is an introduction to machine language and assembly language programming. Concepts discussed include techniques for encoding data as numbers, instruction set design, and the IEEE floating point standard. Assignments, which reinforce ideas covered in CPSC 141, teach assembly language programming techniques and allow students to practice assembler programming. This course is usually offered in the fall. This is a programming intensive course. Prerequisites: CPSC 130, 131, 141.

CPSC 234 Object Oriented Programming (3)

This course is designed to teach the student how to effectively design efficient programs to solve real world problems using the techniques of Object Oriented Programming (OOP) rather than conventional functional programming. It has the student use and compare two popular OOP languages, C++ and C#, to implement the design of their objects and build their application programs stressing good OOP techniques. Prerequisite: CPSC 130.

CPSC 236 Programming Using Visual Basic.NET (3)

This course teaches students how to design and rapidly build applications using the very popular and widely used programming language Visual Basic.NET. It will stress how to effectively use Visual Basic.NET to take advantage of existing and tested objects and programs such as Microsoft Access and Excel, so as to reduce program development time and provide the user familiar graphical interfaces and functionality. This is a programming intensive course. Prerequisites: CPSC 130, 131.

CPSC 237 Internet and Web Programing (3)

This course is designed to teach the students how to effectively design efficient web-based applications. This course covers XHTML, Cascading Style Sheets, Java Scipt, DHTML Language and Model, XML, ADO.NET, ASP.NET and PHP. The goal is to teach skills and languages to build platform-independent code for Internet- and Intranet-based applications. This is a programing intensive course. Pre-requisite: CPSC 151 minimum of D grade

CPSC 240 Operating Systems Concepts and Design (3)

This course is an introduction to computer graphics. Basic principles for design, use, understanding of graphic systems will be studied. Algorithms for creating and manipulating graphic displays and a standard programming language for their implementation will be presented. There will be programming practice. This course is usually offered in alternate years. Prerequisites: CPSC 232 minimum D grade

CPSC 250 Data Structures and Algorithms (3)

This course covers the implementation and use of data structures and algorithms. Topics will include binary trees, priority queues, balanced trees, hash tables, graphs, recursion, binary tree searching, sorting, hashing, and graph searching. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131, 230.

CPSC 251 Non-Linear Data Structures (4)

This course discusses the implementation and use of common non-linear data structures, including random access files, sparse arrays, trees, and graphs. Algorithms for accessing and updating structures are presented and analyzed. Topics covered include hashing, sorting and searching, and a selection of standard graph algorithms. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131.

CPSC 290 Special Topics (Semester hours arranged)

This course is designed to meet specific needs of groups of students or courses to be offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

CPSC 320 Topics in Computer Science (3)

This course focuses on special topics in computing selected from such areas as compiler construction, formal languages, information retrieval, graphics, artificial intelligence. This may be taken more than once, with permission in advance. Prerequisites: CPSC 130, 131, 141, 230, 250.

CPSC 321 Issues in the Practice of Computer Science (3)

This course examines concerns relating to the practice of computer science. Topics considered include uses of computers in professional environments, an introduction to software development practices, ethical and legal issues in computer science, and opportunities for continued professional development. Prerequisites: CPSC 130, 131, 141, 230, 250;Minimum of 64 credits.

CPSC 325 Fundamentals of Security Engineering I (3)

This course provides a comprehensive introduction to security engineering concepts and technologies. The core technologies of access control, cryptography, trusted computing bases, digital signatures, authentication, network firewalls, and secure network architecture are explained in detail. Legal issues, security policy, risk management, certification and accreditation are covered in their supporting roles. Case studies reinforce the lessons learned. Pre-requisites: CPSC 130, 131, 230, 250; MATH 220.

CPSC 326 Risk Analysis/Certification and Accreditation (3)

Computer Certification and Accreditation (C&A) teaches students to successfully perform US Government directed computer certifications leading to computer system accreditation. Department of Defense (DoD) 5200.28 and Federal Information processing Standard (FIPS) 102 guidelines are covered to ensure U.S. Government compliance. In-class exercises guide discussions while student projects reinforce the subject matter. Pre-requisite(s): CPSC 325

CPSC 327 Introduction to Computer Forensics (3)

This course will provide a foundation in the field of Computer Forensics. The student will learn how to obtain and analyze digital information for possible use as evidence in civil, criminal or administrative cases. Topics include applications of hardware and software to computer forensics, computer forensics law, volume and file system analysis, computer forensics investigations, and computer forensics in the laboratory. Hands-on exercises guide discussions and reinforce the subject matter. Pre-requisite(s): CPSC 325.

CPSC 328 Security in Web Programming (3)

This course covers Web safety and browser vulnerabilities, privacy concerns, issues with Java, JavaScript, ActiveX, and web plug-ins. Digital certificates are examined to see how they assure identity in networked environments and how server certificates work. The course also provides technical details about SSL (Secure Socket Layer), TLS (Transport Layer Security), host security, server access methods, and secure CGI/API programming.

Pre-requisite(s): CPSC 130, 131, 230, 250, 325.

CPSC 330 Programming Languages (4)

This course discusses the characteristics of programming languages, and surveys the features, strengths, and limitations of specific languages. Programming practice is provided in languages that emphasize diverse approaches to problem solving: e.g., Scheme, Prolog and a block-structured language. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131, 230, 250.

CPSC 335 Building Graphical User Interfaces (GUIs With Visual.NET) (3:3:0)

This course teaches students to use Object-Oriented Design techniques to efficiently build effective Graphical User Interfaces (GUIs) for applications software. It teaches the student how to use two of the most popular tools, Visual C++.NET and Visual Basic.NET, and existing class libraries to rapidly build and maintain GUIs. All students will be required to demonstrate that they have learned how to build a GUI by completing a final class project. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131, 230, 250.

CPSC 337 Internet and Web Programming (3)

This course is designed to teach the students how to effectively design efficient web-based applications. This course covers XHTML, Cascading Style Sheets, JavaScript, DHTM Language and Model, XTML, ADO.NET, ASP.NET and PHP. The goal is to teach skills and languages to build platform independent code for Internet and Intranet-based applications. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131.

CPSC 340 Operating System Concepts and Design (4)

This course is an introduction to operating systems concepts and design principles. Topics will include all the major areas of operating systems such as process control, memory management, file systems, input/output and security. Theory will be demonstrated by hands-on experience. Students will be required to complete operating system kernel projects where they will write and/or modify operating system code and demonstrate its impact on the performance of the system. Pre-requisite(s): CPSC 130, 131, 230, 250; MATH 220.

CPSC 362 Cryptographic Application Development (3)

In this course students will learn how to effectively design efficient, secure applications using the industry-strength Application Programming Interfaces from .NET and Java. This course covers fundamentals of Cryptography, .NET Symmetric Cryptography, .NET Asymmetric Cryptography, .NET Digital Signatures, XML Signatures, ASP.NET Security, Web Service Security, Java Cryptography Architecture (JCA), and Java Cryptography Extension (JCE). This is a programming intensive course. Pre-requisite(s): CPSC 130, 131, 230, 250.

CPSC 421 Computer Graphics (3)

This course is an introduction to computer graphics. Basic principles for design, use, understanding of graphic systems will be studied. Algorithms for creating and manipulating graphic displays and a standard programming language for their implementation will be presented. There will be programming practice. This course is usually offered in alternate years. Prerequisites: CPSC 130, 131, 230, 250; MATH 320.

CPSC 425 Expert Systems (3)

This course is an introduction to knowledge based systems. Basic concepts, characteristics, architectures, and tools will be studied. Major paradigms for synthesis and analysis class systems, and exact and inexact reasoning systems will be discussed. Computational and knowledge engineering issues will be treated by case studies, and there will be programming practice. This course is usually offered in alternate years. Pre-requisite(s): CPSC 130, 131, 230, 250, 330.

CPSC 428 Artificial Intelligence and Heuristic Programming (3)

A study of symbolic processing and intelligent applications; major models, state-space, problem-subproblem, automated deduction will be applied to solve problems in heuristic programming and artificial intelligence. This course is usually offered in alternate years. Pre-requisite(s): CPSC 130, 131, 230, 250.

CPSC 429 Machine Learning (3)

This course is an introduction to techniques which enable software to improve its performance over time. History and classic experiments will be presented. Programs will be studied which perform rote learning, learn by being told, learn by analogy, learn from examples (induction), and learn by observation and discovery. There will be some programming practice. This course is usually offered in alternate years. Pre-requisite(s): CPSC 130, 131, 230, 250; CPSC 428 is recommended.

CPSC 430 Software Engineering (3)

This course is a study of the principles of software engineering and various programming methodologies as applied to the development of large, complex software systems. Top-down, structured design and programming will be emphasized. There will be practice in the construction of a large software system. This course is usually offered

in the fall. This is a programming intensive course. Pre-requisite(s): MATH 311, CPSC 130, 131, 230, 250, 330.

CPSC 432 Natural Language Processing (3)

This course is an introduction to natural language processing in Computer Science. There will be a review of elementary text, tree, and graph processing and an introduction to syntactic and semantic processing. Syntax: Backus-Naur grammars, sentence generation, recognition, augmented transition networks, parsing strategies. Semantics: case grammar theory, frame theory. There will be case studies of current systems as well as programming practice. This course is usually offered in alternate years. Pre-requisite(s): CPSC 130, 131, 141, 230, 250, 330.

CPSC 433 Compiler Construction (3)

This course introduces the student to the methods and techniques involved in translating high-level languages such as Ada and C into executable machine code. Topics include study of lexical scanning, parsing, symbol table construction, object code generation, and optimization. The bulk of the student activity is spent writing a compiler for a substantial subset of the Ada or C language. This course is usually offered in alternate years. Pre-requisite(s): CPSC 130, 131, 230, 232, 250, 340.

CPSC 442 Introduction to Computer Game Development (3)

This course provides students with a comprehensive introduction to computer game design principles, techniques, and algorithms. It covers the following areas of computer game design: game concept development, user interface design, graphics (2D, 3D, animation, and advanced techniques), game physics, real-time interaction, intelligent characters, and software engineering considerations. During the course, each student will develop a functional, live-action computer game for the PC/Windows-XP platform. Pre-requisite(s): CPSC 130, 131, 230, 250, 340.

CPSC 444 Realtime Systems (3)

This course is an introduction to the problems, concepts and techniques involved in computer systems which must monitor and control external devices or events. This includes techniques and hardware for data collection and control functions. Applications discussed will include microprocessor controlled intelligent devices and process control. This course is usually offered in alternate years. Pre-requisite(s): MATH 141; CPSC 130, 131, 141, 232, 340.

CPSC 445 Networking and Data Communication (3)

This course gives students a foundation in the study of data communications and computer networking. Topics covered will include basic data communications, Open Systems Interconnect (OSI) Model, Local Area Networks (LAN), and common communications standards. This course is usually offered in alternate years. Pre-requisite(s): CPSC 130, 131, 141, 232, 340.

CPSC 447 Distributed Object Programming (3)

This course is intended for students who are interested in understanding and developing application projects with an object-oriented programming language such as Java in distributed computing environments. The course begins with a brief introduction to object technology with programming and introduction to computer networking, and is followed by understanding and developing programs in the server/client model, Remote Method Interface (RMI), and Common Object Request Broker Architecture (CORBA). Pre-requisite(s): CPSC 335, 445.

CPSC 448 Applied Network Security (3)

This course builds on the foundation laid in CPSC 445 by providing in-depth laboratory and classroom exercises using commercial-off-the-shelf (COTS) technology. Students will configure network servers, routers, hubs, firewalls and intrusion detection devices to discover the effect each device can have on overall system security. In-class exercises guide discussions while student projects reinforce subject matter. Pre-requisite(s): CPSC 325, 445.

CPSC 450 Algorithmic Graph Theory (3)

This course is an algorithmic approach to the mathematical theory of graphs and their applications. Path problems, covers, network flows and other problems will be formulated in graph theoretical terms and solutions will be programmed. This course is usually offered in alternate years. This is a programming intensive course. Pre-requisite(s): CPSC 130, 131, 230, 250.

CPSC 453 Database Systems (3)

This course is an introduction to the management of large volumes of interrelated data through integrated database management software. Topics discussed will include relationships between data items, effect of redundancy, and database design. Representative examples of the relational and network approaches to database management will be examined. Pre-requisite(s): CPSC 130, 131, 230, 250. Co-requisite(s): CPSC 232, 340.

CPSC 460 Applied Computer Cryptography (3)

The focus of this course is developing computer algorithms for generating random numbers, symmetric and asymetric ciphers and cryptographic keys. Programming assignments of stream and block ciphers will reinforce ideas covered in CPSC 325. Students will be required to write basic public-key cryptography code as a final project. Pre-requisite(s): CPSC 325, 251, MATH 220.

CPSC 461 Legal Impacts on Computer Security Solutions (3)

This course in computer security focuses on the foundation laid in CPSC 325 and CPSC 326. Students are presented with the legal rationale behind the technical solutions studied in CPSC 325 and CPSC 326. Criminal, civil, regulatory and intellectual property law will be discussed in the context of professional computer environments. Federal and State computer security statutes will guide discussions. Student reports will reinforce the subject matter. Pre-requisite(s): CPSC 325, 326.

CPSC 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular discipline. Independent study is a process through which a student either sharply increases his/her already advanced knowledge of a subject matter or increases his/her appreciation about an academic discipline that is correlative with a student's advanced knowledge of a subject. The proposed independent study must be submitted to the department for approval. The faculty member supervising the independent study must provide a minimum of five hours of time per credit hour upon request of the student.

CPSC 486 Computer Science Internship (Semester hours arranged)

This course consists of in-depth involvement in ongoing programming projects under direct professional supervision. This course may not be used as an elective in either the Computer Science

major or the Computer Security major. Pre-requisite(s): CPSC 130, 131, 141, 230, 250, 321, 330, 340.

CPSC 487 Security Engineering Internship (Semester hours arranged)

This course consists of involvement in ongoing network security tactics, techniques and procedures under direct professional supervision. This course may not be used as an elective in either the Computer Security major or the Computer Science major. Pre-requisite(s): CPSC 130, 131, 141, 230, 250, 325, 445.

Criminal Justice

College of Arts and Sciences

The Faculty of Social Sciences
Stroud Hall, Room 414
570-422-3453.....www.esu.edu/soc

The Department of Sociology, Social Work and Criminal Justice offers a Bachelor of Arts in Sociology; Bachelor of Science in Social Work; and Bachelor of Science in Criminal Justice, plus three minors in Sociology, Social Work, and Criminal Justice.

The goal of the Criminal Justice program is to provide students with the educational background necessary to pursue careers in Criminal Justice, and/or to pursue graduate study in criminology, criminal justice, law, or other related fields.

Is criminal justice a career path for me?

Career Potential

- Law Enforcement
- Corrections
- Government Agency Professional

Career Settings

- Criminal Justice Agencies
- Business
- Education
- Government

More detailed career information is available from the department.

Bachelor of Science in Criminal Justice

42 semester hours

- **Required courses:** SOC 111; SOCJ 150, 250; SOC 254, 312, 341; SOCJ 350, 352, 475; SOC 486, 495; one of SOC 102, 201, 302, 343, 377; one of SOCJ 151, 251, 252, 253, 351, 353, 354, 460; one of SOC 310, 342, 343, 344, 370, 374; CHEM 275; CMST 253, 333; CPSC 103, 105, 327; MGT 211

Transfer Policy:

1. No upper level (300 and 400 level) courses will be accepted from community or junior colleges for the Criminal Justice major or minor; 300 and 400 level courses from four-year colleges are accepted only with permission of the department
2. For Criminal Justice major - a minimum of 32 credits must be taken at East Stroudsburg including SOC 254, SOC 312, SOCJ 475, SOC 486, and SOC 495.
3. A 2.5 cumulative quality point average must be earned in the major.

Program Curriculum Plan

(*Subject to change by the university without notice)*

Freshman Year

Fall

SOCJ 150: Introduction to Criminal Justice	3
SOC 111 GE: Introduction to Sociology	3
English Composition	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

Diversity Elective (Major) : SOC 102 GE: Introduction to Cultural Diversity or SOC 201 GE: The Comparison of Societies or SOC 343 GE: Racial and Cultural Minorities or SOC 377 GE/WS Sociology of Women or SOCJ 302: Social Inequality, Crime and Justice	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Lab Elective	1
Subtotal	**16**

Sophomore Year

Fall

SOC 254: Quantitative Approaches in Sociology or SOCJ 250: Corrections	3
Criminal Justice Elective (Major)	3
General Education Electives	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

SOC 254: Quantitative Approaches in Sociology or SOCJ 250: Corrections	3
Interdisciplinary Elective (Major)	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

SOC 312: Research Methods	3
SOC 341 GE: Criminology	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SOCJ 350: The Criminal Process	3
SOCJ 352: Police and Community Relations	3
Free Electives	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

SOCJ 475: Ethics in Criminal Justice	3
Free Electives	12
Subtotal	**15**

Spring

SOC 495: Seminar	3
SOC 486: Field Work and Observation	3
Free Electives	6
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3453 or visit www.esu.edu/soc

Minor in Criminal Justice

24 semester hours

The goal of the Criminal Justice Administration program is to provide students with the educational background necessary to pursue careers in Criminal Justice, and/or to pursue graduate study in criminology, criminal justice, law, or other related fields.

- **Required concentration courses:** SOC 341, 342, 486; SOCJ 150, 250 or 352, 350
- **Electives:** Three additional semester hours selected from the following recommended courses: CHEM 275; FLSP 234; PHYS 107, 251, 252, 253; SOC 441; SOCJ 151, 251, 252, 253, 351; PSY 271.

Transfer Policy:

1. No upper level (300 and 400 level) courses will be accepted from community or junior colleges for the Criminal Justice major or minor.
2. For Criminal Justice minor - a minimum of 15 credits must be taken at East Stroudsburg, and 300 and 400 level courses from four-year colleges are accepted only with permission of the department.

Faculty

Professor:

Barbara Collins, Chair (bcollins@po-box.esu.edu)

Reto Muller (rmuller@po-box.esu.edu)

Hooshang Pazaki (shpazaki@po-box.esu.edu)

Associate Professors:

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Assistant Professors:

Laurene Clossey (lclossey@po-box.esu.edu)

Marianne Cutler (mcutler@po-box.esu.edu)

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Gerard LaSalle (glasalle@po-box.esu.edu)

Instructor:

Michael Muth (mmuth@po-box.esu.edu)

Criminal Justice Courses

SOCJ 150 Introduction to Criminal Justice (3)

This course is an overview of the role of police, prosecution, court, and correctional processes in the administration of criminal justice in the United States. This course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major.

SOCJ 151 Introduction to Security (3)

This course discusses the history, nature, and scope of private security in modern society, the basic principles of physical security, internal loss prevention, defensive systems, fire prevention and safety, and the security function in the corporate structure. This course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major.

SOCJ 250 Corrections (3)

The correctional process (sentencing, incarceration, and release) will be examined. Prison classification, treatment systems, life "inside," discipline, inmates' rights, and parole prediction are studied. The course is offered in cooperation with the Criminal Justice Administration program. It will not count toward the Sociology major.

SOCJ 251 Police Organization and Administration (3)

This course is an examination of the historical development and present organization and administration of police departments and a consideration of the principles of organization best adapted to ensure effective service to the community. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major.

SOCJ 252 Organized Crime (3)

The history, growth, structure, philosophy, and scope of Organized Crime will be studied. Effective methods of prosecuting this type of crime will be reviewed. The course is offered in cooperation with the Criminal Justice Administration program. It will not count toward the Sociology major.

SOCJ 253 Violence in Society (3)

This course is an in-depth study of violence, with topics such as riots, campus and civil disorders, violent crime, terrorism, and assassinations discussed in detail to give the student an insight into this deviant behavior. The course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major.

SOCJ 302 Social Inequality, Crime and Justice (3)

This course will utilize a structural and interactional approach to understanding notions of power that produce and reinforce inequality in the American criminal justice system. The course will primarily examine inequality as it pertains to race, class, gender, age and sexual orientation within this social institution. Pre-requisite(s): SOC 111, SOCJ 150, 1 additional 200-300 level criminal justice or sociology course.

SOCJ 350 The Criminal Process (3)

This course provides an overview of the criminal process from arrest through trial and sentencing. It includes discussions of the law and procedures applicable at each stage, including classification of crimes, warrants, searches and seizures, confessions, evidence, preservation, preliminary hearings, motions, pleas, and trials. Particular crimes are treated substantively as necessary to supply examples. Practical exercises are contemplated. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOCJ 150.

SOCJ 351 Police Investigation (3)

This course considers appropriate conduct at the crime scene, techniques of interview, interrogation of witnesses and suspects, the uses of informants, studies of specific investigative methods for particular kinds of cases, and the presentation of police cases in court. The course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major. Prerequisite: SOCJ 150.

SOCJ 352 Police and Community Relations (3)

This course is a review of the problems confronting the police and the community, a study of minorities to gain an understanding of their particular problems, an in-depth look at ways of achieving trust, understanding, respect, and cooperation from the public that the police serve. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOCJ 150.

SOCJ 353 Crisis Management in Law Enforcement (3)

This course will introduce students to the current issues of managing critical incidents and hostage situations that occur in law enforcement and corrections. It will focus on those activities necessary to stabilize life and property threatening incidents. It will provide an understanding of commanding high-risk incidents, pre-incident planning, and critical incident stress reactions. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOC 111 or SOCJ 150.

SOCJ 354 Drug Use and Abuse in Society (3)

This course will focus on drug use and abuse as it pertains to today's society. It will offer an in-depth look into the various types of drugs and how they affect the body along with the implications that arise through the abuse of these substances. It will explore the concept of addiction to the various controlled substances that are available pharmaceutically and on the black market. Stimulants, depressants, and hallucinogens will be discussed in-depth, along with the various State and Federal Laws that apply to the Controlled Substance Acts. Lastly it will look at alcohol use and abuse, over the counter medications, and the emerging trends of drug use that are ever changing in our society. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology Major. Prerequisite: SOC 111 or SOCJ 150.

SOCJ 460 Schools, Gangs, Violence and Society (3)

This course will examine the various aspects of violence as they relate to the school setting. It will take an in-depth look at gangs, weapons, and drugs in the school environment. This course will discuss some of the more recent approaches from law enforcement perspective that have worked in combating school violence. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOC 111 or SOCJ 150, and a second course in Sociology.

SOCJ 475 Ethics in Criminal Justice (3)

Ethical decision-making is a central component of professional integrity. This course will introduce students to professional ethics in criminal justice, to the ethical dilemmas encountered by criminal justice professionals, and to the processes of making ethical decisions in criminal justice settings. Topics to be examined include police discretion and excessive force, racial profiling, prosecutorial misconduct, investigatory deception, and corruption. Prerequisite: SOCJ 150, 350, and either SOCJ 250 or 352.

Dance

College of Health Sciences

The Faculty of Human Performance
Koehler Fieldhouse
570-422-3231.....www.esu.edu/dance

Department faculty

Professor:
Elizabeth G. Gibbons (egibbons@esu.edu)

Dance classes may be taken as FIT or Performing Arts. For more dance classes please see also FIT General Education Activity courses.

Dance Minor

21-24 semester hours

- **Required courses:** PETE 111; DANC 114, 115, 210 (or 310), 215, 216, 314, 315, 316, 342

The following dance classes fulfill the General Education Performing Arts requirement:

DANC 114 GE: Modern Dance Theory

DANC 210 GE: Elementary Ballet

DANC 215 GE: Elementary Lyrical Modern Dance

DANC 310 GE: Intermediate Ballet

DANC 314 GE: Creative Experiences in Dance

DANC 315 GE: Dance Performance & Production (May be repeated)

DANC 317 GE: Dance Repertory

Typical Course Rotation

Course #	# Sections	How often	Credits
PETE 111	3-4	Every semester	1
DANC 114	1	Even springs	3
DANC 115	1	Every fall	3
DANC 210	1	Every semester	2
DANC 215	1	Odd falls	2
DANC 216	1	Every fall	2
DANC 310	1	Every semester	2
DANC 314	1	Even falls	1
DANC 315	1	Every semester	1
DANC 316	1	Every spring	1
DANC 342	1	Even springs	2

Course Descriptions

*Courses marked with ** fulfill the requirements for Performing Arts.*

DANC 114 GE: Modern Dance Theory (3)**

This course is designed to introduce the student to the study of dance as the most fundamental of the arts, involving a direct expression of oneself through the body. The student will explore fundamental movement concepts including time, weight, space, and flow. Contextualization of historical, theoretical, and aesthetic principles will be emphasized.

DANC 115 Introduction to Dance (3)

This course examines the universal human need to celebrate life through dance. It is a survey of dance style forms designed to introduce the student to the energies and mysteries of dance throughout the ages and cultures of the world. Emphasis is on the role of dance as an expression of cultural mores, social order, religious worship, cultural identity, and individuality.

DANC 143 GE: Elementary Jazz Dance (2)

This is an elementary level jazz dance technique course which includes a variety of axial and locomotor techniques and basic combinations characteristic of historical and contemporary jazz dance, with emphasis on developing the physical and expressive potential of the human body. The class will present anatomical and aesthetic aspects of this dance genre. DANC 143 may be repeated for credit once.

DANC 210 GE: Elementary Ballet (2)**

This course will include technique in elementary ballet including alignment, barre, center work, basic enchainements, and room and body directions, with emphasis on developing the physical and expressive potential of the human body. The class will enable students to understand and synthesize the kinesiological and anatomical, historical and theoretical and aesthetic aspects of dance. May be repeated once for credit.

DANC 215 GE: Elementary Lyrical Modern Dance (2)**

This is an elementary level modern dance technique course. It explores a variety of axial and locomotor techniques and simple combinations characteristic of contemporary dance. The ability to apply skills in the art form is implied in any study of technique; this ability will be realized through improvisational and compositional experiences. May be repeated for credit.

DANC 216 Creative Dance for Children (2)

This course is designed to introduce students to the fundamentals of teaching creative dance for children including a conceptual approach to dance and fostering children's growth through a creative, child-centered dance curriculum. It will include information on the nature of dance for children, choosing age-appropriate topics, strategies for facilitation of dance experience, and group discussions as well as guided practical experiences. Prerequisite: DANC 114 or DANC 210 or DANC 215 or equivalent (1yr. prior dance study).

DANC 310 GE: Intermediate Ballet (2)**

This course will include technique in intermediate ballet including alignment, barre, center work, room and body directions, and intermediate-level enchainements. Students will further develop their awareness of the role of principles of flexibility, muscular strength and endurance, and cardiovascular fitness, with emphasis on developing the physical and expressive potential of the human body. May be

repeated for credit. Prerequisite: DANC/FIT 210 or equivalent (1-2 yrs. prior ballet study).

DANC 314 GE: Creative Experiences in Dance (1)**

This course provides the student with intermediate to advanced dance experience (minimum 3 years of study) guidance in individual and group experiences in dance. Using a related arts approach, it examines the expressive quality of movement in the use of time, space, and energy factors. Improvisation and choreography are included. Fulfills GE requirement for Performing Arts. Prerequisites: PETE 110 or FIT 140; DANC 114; DANC or FIT 210; DANC or FIT 215.

DANC 315 GE: Dance Performance and Production (1)**

This course consists of performance, choreography, and production work involved with dance as a performing art. Work in performance and technical areas is included, and participation in production is required. This course may be elected more than once for credit (maximum of 3 times). Prerequisite: FIT 140 PETE 110,or equivalent dance instruction.

DANC 316 Dance Teaching Practicum (1)

This course is designed to develop insight and develop further competency during laboratory experiences by providing students with guided practical experiences in teaching dance for children and adults. Prerequisites: PETE 111 or FIT 141 and 142, and PETE 216 or DANC 216.

DANC 317 GE: Dance Repertory (1)**

This course consists of a select dance ensemble that explores, creates and performs new and existing dance works. The dance repertoire studied will reflect a wide variety of genres including ballet, modern, jazz, tap and ethnic dance styles. Course content will include an advanced dance technique class in addition to rehearsals. Prerequisites: DANC 210, 215 and 114 or equivalent.

DANC 342 Seminar in Dance Education: (2)

This course is designed to provide a cohesive overview of the field of dance education. Emphasis is placed on discussions of readings concerning the philosophical and practical approaches to teaching a variety of dance styles to children and adults. Concepts and issues raised by students will be reviewed and/or further discussed by the professor. Integration of courses in dance technique, improvisation and choreography, and dance pedagogy is a major objective of this seminar. Prerequisites: DANC 114, 115, 215, 216, 314, 316, and either 210 or 310.

Early Childhood Education

About the Programs
The four-year programs in Early Childhood (PreK-4) is designed to offer students a curriculum of general education and professional and early childhood education theory, application, and practice in teaching children. The curriculum is designed to develop a community of learners who are competent and reflective professionals able to teach any child in any setting.

The courses and extensive field based component develops beginning educator's knowledge, skills, and dispositions relevant to content, the learner and the learning environment, teaching and learning process, and professionalism.

Graduates of the Early Childhood Education major will be certified to teach in PreK to grade 4 (new program). Students interested in this age level can also combine Special Education certification with Early Childhood (PreK-4) Certification (see Special Education major for details).

Are you interested in...
- Working with children
- Teaching others
- Using your creativity

Choose Early Childhood at ESU
- Qualified, experienced faculty
- Practical experience

Is Early Childhood a career path for me?

Career Potential
- Preschool teacher
- Kindergarten teacher
- Elementary school teacher

Bachelor Science in Early Childhood Education (PreK to 4)

120 semester hours
- **Required general education courses:** ENGL 103 and an English Literature course; MATH 105 (a grade "C" or higher is required), MATH 205; PSY 105; SOC 102
- **Required Professional Education courses:** PSED 150; MCOM 262; REED 314; SPED 350; SPED 351
- **Required major courses:** ECED 232, 263, 321, 322, 323, 332, 333, 331, 334, 411, 412, 413, 414, 420,
- **Student Teaching semester:** ECED 430- 12 credits
- **Additional Requirements**: 3.0 GPA for admittance to the Department; 3.0 GPA overall for eligibility for Student Teaching; 3.0 GPA in major for Student Teaching

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSED 150: Teaching All Students	6
ENGL 103: English Composition	3
General Education	3
FIT Elective	1
Take PEARSON Pre-Service Academic Performance Assessment (PAPA) Reading, Writing, & Math	
PSY 105 GE: Infant and Early Childhood Developmental Psychology	3
Subtotal	**16**

Spring

ECED 232: Child Development & Cognition	3
General Education	3
MATH 105 GE: Mathematical Problem Solving for PreK to Grade 8 Education Majors	3
GE: English Literature	3
SOC 102 GE: Introduction to Cultural Diversity	3
Subtotal	**15**

Sophomore Year

Fall

ECED 263: Foundations of Early Childhood Education	3
(PEARSON Pre-Service Academic Performance Assessment (PAPA) Passing Scores Required)	
General Education Course	9
MATH 205 GE: Geometry for PreK to Grade 8 Education Majors	3
FIT Elective	1
Subtotal	**16**

Spring

MCOM 262: Educational Communications & Technology	3
General Education Course	12
Subtotal	**15**

Junior Year

Fall

ECED 321: Enhancing Language & Cognitive Development	3
ECED 322: Family & Community Partnerships	3
ECED 323: Integrating the Curriculum: Projects and Play	3
ECED 333: Math 1 Investigations and Integrations	3
ECED 334: Designing & Managing Early Childhood Literacy Environment	3
Subtotal	**15**

Spring

REED 314: Foundations of Reading for the Developing Child	3
General Education	3
ECED 411: Arts for the Developing Child	3
ECED 414: Social Studies for the Developing Child	3

SPED 350: Assessment of Student Learning and Behavior in Diverse Communities	3
Subtotal	**15**

Senior Year

Fall

ECED 332: Language Arts for Academic Success	3
SPED 351: Collaboration for Inclusion	3
ECED 412: Math for Academic Success	3
ECED 413: Science for the Developing Child	3
ECED 420: Advocacy, Leadership and Collaboration	1
Subtotal	**13**

Spring

ECED 331: Teacher as Researcher	3
ECED 430: Student Teaching in Early Childhood Education	12
Subtotal	**15**
Total Credits	**120**

Note: Before registering for a course, students must satisfy prerequisites. Students should see "Course Description" in the latest catalog. (Descriptions are available online for Undergraduate Courses and Graduate Course Description.)

Faculty

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Department of Early Childhood and Elementary Education
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Course Descriptions

ECED 232 Child Development and Cognition (3)

This course presents typical and atypical development from conception through age nine; interaction between heredity and environment; parent-child relations; development and stabilization of personality; attitudes toward self and others, physical, social, and cognitive development. Particular emphasis is placed on understanding special needs of students. Prerequisite: ENGL 103 is recommended. This course is a prerequisite to all methods courses.

ECED 262 Introduction to Early Childhood Education (3)

This course includes the study of infants, toddlers, nursery school, kindergarten and primary school-aged children; a historical perspective of early intervention models, materials, equipment, and developmentally appropriate practices for use in a pre-school center, primary school, and the home; an evaluation of current trends and issues related to guiding and educating young children including the exceptional child. This course is directed toward prospective teachers and parents. Prerequisite: PRAXIS I, ELED 132. Corequisites: PSED 161, PSED 242.

ECED 263 Foundations of Early Childhood Education (3)

This course includes the study of programs serving all children from birth to fourth grades in a variety of settings. A survey of the early childhood field, historical perspectives, evidence-based models, and current best practices are explored both in the classroom and through observations and fieldwork. The formal application for admittance to the department occurs in this course. Prerequisite: ECED 232; Corequisites: PSED 150. PRAXIS I. This course is a prerequisite to all methods courses.

ECED 321 Enhancing Language and Cognitive Development (3)

The student will explore the links between brain development and their developing cognitive and language skills of the typically and atypically developing young child. The student will examine the role of supportive adult-child interaction in the development of language, security, and self regulation and the link in these early developments to academic skills, social skills and a positive disposition to learning. The student will examine the benefits and challenges of bilingualism and biculturalism on the developing child. The student will interact with children and families in culturally and linguistically diverse settings. Prerequisite: ECED 232, ECED 263 and admittance to department.

ECED 322 Family and Community Partnerships (3)

This course uses ecological perspectives and systems theories to examine the influence of families and communities on children's success in schools. Students will be sensitive to the need for bi-directional interactions between families, teachers and community, examine the effect of language and culture on the home-school relationship and understand early intervention processes. The course provides opportunities for developing collaborative relationships with all parents, including those with limited English proficiency, disabilities and culturally diverse communities. Prerequisite: ECED 232, ECED 263, SOC 102 and admittance to department.

ECED 323 Integrating the Curriculum: Projects and Play (3)

This course will provide opportunity for students to plan, implement and document the integrative possibilities in the Prekindergarten-Kindergarten curriculum. Play theories, research and methods are examined that encourage the development of intellectual dispositions in various cultures and contexts. Project work in PreK classrooms will provide opportunities to observe, facilitate, differentiate, and document emergent curriculum and aspects of all children's learning. Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 331 Teacher as Researcher (3)

This course offers students strategies and tools for developing a comprehensive approach to assessing student learning. Various assessment topics will be discussed, including how to use various

types of data to make instructional decisions to advance student success.

ECED 332 Language Arts for Academic Success (3)

This course is designed to provide candidates with language and literacy skills for children in kindergarten through fourth grade in elementary school. The three major focuses of the course include language and literacy, children's literature, and English Language learners. Appropriate teaching strategies, techniques and assessments to implement these essential elements into an effective language learning environment for young learners will be explored. Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 333 Math I: Investigations and Integration (3)

This course is a study of early mathematical development and math concepts appropriate for P-K learners, including numbers, patterns, space/shape, measurement, data and problem-solving. Developmentally appropriate, experiences in math, integrated with music and movement will focus on standards, curriculum, assessment and planning to advance early learning. Prerequisites: ECED 232, ECED 263, and admittance to department.

ECED 334 Designing and Managing the Early Childhood Literacy Environment (3)

This course will provide the studentswith the building blocks for designing and managing a healthy, respectful, literacy-rich, and challenging learning environment for young children. Topics will include techniques for establishing routines and classroom management, designing the indoor and outdoor environments, planning experiences to promote multiple literacies and develop a community of learners. Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 363 Creativity in Childhood Education (3)

This course is designed to facilitate the exploration of the creative process on two levels. Students are encouraged to develop their own creative process while studying methods and theories that encourage creative behaviors in the classroom for children. Emphasis is placed on the development of procedures that will ensure a climate conducive to creativity in pre-school and primary classrooms. Prerequisite: ELED 132, ECED 262, and admittance to department.

ECED 411 The Arts for the Developing Child (3)

Candidates will examine the unique role of dance, drama, music and the visual arts in the learning and development of all children Pre K through age 9. Students will engage in a variety of experiences to develop the knowledge, creative dispositions, and pedagogical skills to effectively integrate the arts in the Pre K classroom. The lab portion of this course is taught in local schools through the Professional Development School program . Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 412 Math for Academic Success (3)

Students in this course will learn how to plan, implement , and reflect on manipulative based math lessons that are based on a coherent curriculum and that meet the developmental needs of children in early childhood mathematics classroom. They will also learn how to integrate technology and alternative assessment strategies in an early childhood mathematics classroom. The lab portion of this course is taught in local schools through the Professional Development School program. Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 413 Science for the Developing Child (3)

This course engages students in developing their understanding of concepts, standards, methods, and materials for teaching science for the developing child. The primary focus is on the use of inquiry and activity-based methods. Weekly field experience in a Professional Development School will emphasize the application of course content and instructional theories to teaching. The lab portion of this course is taught in local schools through the Professional Development School program. Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 414 Social Studies for the Developing Child (3)

This course is designed to provide the student with theoretical base, knowledge, skills, and practice in teaching social studies to students in PreK through fourth grade. This course builds on and enhances social science content knowledge in civics and government, geography, history, and economics to support successful classroom teaching and student academic achievement. It includes a focus on Pennsylvania history to facilitate appropriate instruction in the fourth grade across the Commonwealth. Content includes knowledge of the ways in which students learn social science disciplines; the ability to plan and deliver effective instruction; and skills in assessing student learning in order to modify instruction and deliver successful intervention. The lab portion of this course is taught in local schools through the Professional Development School program. Prerequisite: ECED 232, ECED 263, admittance to department.

ECED 420 Advocacy, Leadership and Collaboration (1)

This practicum course, taken during Student Teaching, will afford opportunities for students to expand their role as reflective and deliberate decision makers in the Prekindergarten- 4th classroom, school and community. Students will discover creative ways to communicate their findings and advocate for young children and their families in the school and community. Prerequisite(s): ECED 232, ECED 263 and Program Admittance

ECED 430 Resident Student Teaching in Pre K-4th Grade (6)

This course is a semester of guided teaching in two settings: a Pre K or Kindergarten and a 1st - 4th primary classroom in an elementary school. As the capstone experience of your teacher education at East Stroudsburg University, the Resident Student Teaching Semester is an integral experience in the transition from university student to Beginning Educator. During this semester you will have the opportunity to integrate your knowledge, skills and professional dispositions, embedding theory in practice as you craft your own unique identity as a Beginning Educator. Prerequisites: students must have Department approval which is obtained when all requirements for Student Teaching have been met including: Admission to the teacher education program; completion of all ECED major courses with no grade lower than a C; passing score on Praxis II (0511) - Fundamental Subjects: Content Knowledge; Act 34 and/or FBI clearance and Act 34; negative TB test. Students must have a 3.0 GPA overall and in their major to student teach and to be certified in the State of Pennsylvania.

ECED 460 Language and Literacy for Young Children (3)

This course explore the theories, research and practice on language and literacy development for young children. Strategies to assess development in reading, writing, listening and speaking as well as experience to enhance and nurture growth will developed. Emphasis is given to meeting the individual needs of learners, providing success-oriented experiences, and instilling a positive self concept in the young child.

Middle Level Education

ECED 464 Early Childhood Curriculum I - Birth to Age 3 (3)

This course uses observations and interactions with children, teachers, and families to examine typical and atypical development of infants and toddlers. Students observe and participate in programs to examine appropriate physical and psychological environments, learn to construct appropriate curriculum, gain practice in responsive teacher-child interactions, engage in systematic observations and begin to establish collaborative professional relationships with families and other early childhood educators. Prerequisites: ECED 262; ELED 132 and admittance to department.

ECED 465 Early Childhood Curriculum II - 3 to 6 Years (3)

This course uses observations and interactions with children, teachers, and families to examine typical and atypical development of preschoolers. Students observe and participate in programs to examine appropriate physical and psychological environments, learn to construct appropriate curriculum, gain practice in responsive teacher-child interactions, engage in systematic observations and begin to establish collaborative professional relationships with families and other early childhood educators. Prerequisites: ECED 262; ELED 132 and admittance to department.

ECED 466 Early Childhood Curriculum III - 6 to 8 Years (3)

This course uses observations and interactions with children, teachers, and families to examine typical and atypical development of primary grade children. Students observe and participate in programs to examine appropriate physical and psychological environments, learn to construct appropriate curriculum, gain practice in responsive teacher-child interactions, engage in systematic observations and begin to establish collaborative professional relationships with families and other early childhood educators. Prerequisites: ECED 262; ELED 132 and admittance to department.

ECED 486 Internship in Early Childhood (6)

This internship is designed for the student who is interested in working with young children and their families in a non-public school setting. It is designed to provide the student with the opportunity to develop further competencies and understandings of one or more aspects of early childhood education. Placement is arranged on an individual basis. It is expected that the Intern will contribute to the welfare of the organization by engaging in experiences that are "value added" and it is expected that the placement site will contribute to the professional development of the intern by providing experiences that are standards-based, substantial, relevant, and developmental and will facilitate the contribution of the intern to the professional community. Prerequisites: All courses for EC Professional Program and Department Admittance.

ECED 489 Organization and Administration of Early Childhood Programs (3)

This course emphasis is on organization and administration of high quality pre-school programs, including supervising, staffing, housing, equipment, programs, records, financing and budgeting, and parent involvement. The course is directed toward prospective early childhood teachers and day care center personnel. Prerequisites: ECED 262, ELED 132 and admittance to department.

ECED 495 Seminar in Early Childhood Education (3)

This course emphasizes current trends, issues, and problems related to educating young children. It includes a survey of the many resources available as well as opportunities to meet with and benefit from the experiences of several practicing professionals. Prerequisites: ECED 262, ELED 132; and admittance to department.

About the Programs

The four-year programs in Middle Level Education are designed to offer students a curriculum of general education and professional middle level education theory, application, and practice in teaching children.

The curriculum is designed to develop a community of learners who are competent and reflective professionals able to teach any child in any setting. The courses and extensive field based component develops beginning educator's knowledge, skills, and dispositions relevant to content, the learner and the learning environment, teaching and learning process, and professionalism.

This program is jointly offered by the Department of Early Childhood & Elementary Education and the Department of Professional and Secondary Education. Candidates select a required concentration area of 18 credit hours in either English/Language Arts/Reading; Social Studies; Science; or Math.

Middle Level Education majors will be certified to teach any subject in grades 4 to 6 and grades 7-8 in their core academic area . Students interested in this age level can also combine Special Education certification with Middle Level Certification (see Special Education major for details). .

Are you interested in...

- Working with children
- Teaching others
- Using your creativity

Choose or Middle Level Education at ESU

- Qualified, experienced faculty
- Practical experience in authentic settings
- Strong content preparation

More detailed career information is available from the department.

Bachelor of Science in Middle Level Education (4 to 8)

120 semester hours

- **Required general education courses:** English 188, 190, 104; BIOL 105; CHEM 115; MATH 105, 205; PHYS 105; ECON 111; GEOG 120; HIST 141, 111, POLS 211
- **Required Professional Education courses:** PSED 150, 250, 244; REED 350; SPED 350, 351; MATH 110, 130 or MATH 135; REED 340; ENGL 412; PSED 430, 499 (1 credit in area of concentration (HIST 499, ENGL 499, PHYS 499 or MATH 499)
- **Required major courses:** ELED 350, ELED 450
- **Student Teaching semester:** ELED 431 Student Teaching in Middle Level Education (12 credits)
- **Required concentration:** Students select a minimum of 18 semester hours of in-depth work in one content area: (See academic adviser for selection)

English/Language Arts/Reading
Social Studies
Science(Choice 1)
Science (Choice 2)
Math (Choice 1)
Math (Choice 2)

- **Additional Requirements**:
  - 3.0 GPA for admittance to the Department;
  - 3.0 GPA overall for eligibility for Student Teaching;
  - 3.0 GPA in major for Student Teaching

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSED 150: Introduction to Teaching All Students	6
ENGL 104: English Composition for Secondary English and Middle Level Education Majors	3
MATH 105: Math Solving Problems (Grade of "C" or higher is required)	3
FIT Elective	1
HIST 141: Foundations of US	3
PEARSON Pre-Service Academic Performance Assessment (PAPA) Reading, Writing, & Math	
Subtotal	**16**

Spring

PSED 250: The Psychology of Learners in Diverse Communities	3
ENGL 188: Mystery Fiction	3
MATH 205: Geometry for...	3
BIOL 105: General Biology	3
HIST 111 GE: World Civilization to 1300	3
FIT Elective	1
Subtotal	**16**

Sophomore Year

Fall

GEOG 120: Physical Geography	3
MATH 110: General Statistics	3
POLS 211: The Ancient World	3
F/PArts/Phil/FL Choice Course	3
Concentration Area: 5th Course	3
Subtotal	**15**

Spring

ENG 190 GE: Multicultural American Literature	3
MATH 130: Applied Algebraic Methods or MATH135: Pre-Calculus (Science con. Only)	3
CHEM 115 GE: Chemistry, Molecules and Life	3
PSED 244: Adolescent Psychology	3
Concentration Area: 6th Course	3
Subtotal	**15**

Junior Year

Fall

ECON 111: Principles of Macro	3
PHYS 105: Phys. for Inquiring Mind	3
SPED 350: Assess. of Student Learning and Behavior in Diverse Classrooms	3
Concentration Area: 7th Course	3
Concentration Area: 8th Course	3
Subtotal	**15**

Spring

ELED 350: Middle School Methods	3
REED 340: Teaching Reading in Middle School	3
F/P Arts/Phil/FL Choice Course	3
Concentration Area: 9th Course	3
Concentration Area: 10th Course	3
Subtotal	**15**

Senior Year

Fall

ELED 450: Seminar in Middle Level Methods	3
SPED 351: Collaboration Inclusion	3
ENGL 412: Teaching of Writing in the Secondary School and Middle School	3
REED 350: Teaching Reading to Communities of Diverse Middle and Secondary Students	3
F/P Arts/Phil/FL Choice course	3
Subtotal	**15**

Spring

ELED 431: Student Teaching in the Middle Level	6
PSED 430: Student Teaching in Secondary Ed/Middle School/Junior High Level	6
_____499 1 credit course in area of concentration (HIST 499, ENGL 499, PHYS 499, or MATH 499)	1
Subtotal	**13**
Total Credits	**120**

Note: Before Registering for a course, students must satisfy prerequisites. Students should see "Course Descriptions" in the latest catalog. (Descriptions are available online for Undergraduate Courses and Graduate Course Descriptions.)

Professional/ Secondary Education Faculty

Professors:

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Department of Early Childhood and Elementary Education
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Earth and Space Science

College of Arts and Sciences

The Faculty of Science
Gessner Science Hall, Room 107
570-422-3341.....www.esu.edu/physics

About the Program
Three programs are available in Earth and Space Science.

The Bachelor of Arts in Earth and Space Science is designed to prepare students with a broad background in the Earth and Space Sciences (including astronomy, geology, meteorology and oceanography).

The Bachelor of Science in Earth and Space Science (Secondary Education) provides the content needed to teach the Earth and Space Sciences in secondary schools.

The Bachelor of Science in Physics (earth and space science track; see Physics section in catalog) is designed to prepare students either for advanced study in the fields of astronomy, geology and meteorology , or for immediate employment in these sectors.

Bachelor of Arts in Earth and Space Science

Are you interested in...
- Astronomy
- Geology
- Space Science

Choose Earth and Space Science at ESU
- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty

Is earth and space science a career path for me?

Career Potential
- Earth science equipment specialists
- Science writing
- Earth and space science data analysis

Career Settings
- Local, state and governmental agencies
- National and private laboratories
- Equipment and technical companies

More detailed career information is available from the department.

Program Features

47 semester hours
- **Required major courses:** BIOL 114, 474; CHEM 121, 123; GEOG 120, 121, 220, PHYS 121, 122, 124, 131 or 161, 132 or 162, 495; two courses from (PHYS 304, 404, 305; BIOL 469, 480; GEOG 321); one course from (BIOL 200, 210; CHEM 108, 373); 3 additional credits related to the major, approved by the adviser.
- **Corequisite courses:** MATH 135, 140; one course in CPSC.
- **Additional requirements:** At least 9 credits of required courses (not corequisites), must be completed at ESU. A minimum of a C must be obtained in each of the required courses.
- **Coordinator:** Professor David Buckley, Department of Physics

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

General Education Elective	3
GEOG 120 GE: Physical Geography	3
PHYS 121 GE: Astronomy I: Sky and Solar System	3
*General Education Elective - Group A	3
ENGL 103: English Composition	3
PHYS 124: Observational Astronomy Lab	1
Subtotal	**16**

Spring

GEOG 121 GE: Physical Geology	3
PHYS 122 GE: Astronomy II: Stars and Galaxies	3
CPSC 101 GE: PC's and Their Uses in Science	3
MATH 135 GE: Pre-Calculus	3
General Education Elective - Group C	3
Subtotal	**15**

Sophomore Year

Fall

MATH 140 GE: Calculus 1	4
BIOL 114 GE: Introductory Biology I	4
General Education Elective	3
General Education Elective - Group A (2nd English)	3
Fitness Elective	1
Subtotal	**15**

Spring

PHYS 131 GE: Fundamental Physics I	4
GEOG 220 GE: Meteorology	3
General Education Elective	3
General Education Elective - Group A	3
General Education Elective - Group C	3
Subtotal	**16**

Junior Year

Fall

General Education Elective	3
PHYS 132 GE: Fundamental Physics II	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Laboratory	1
Earth and Space Science Elective	3
Fitness Elective	1
Subtotal	**15**

Spring

General Education Elective	3
BIOL 474 Introduction to Oceanography	3
Environmental Science Elective	3
General Education Elective - Group A	3
Earth and Space Science Elective	3
PHYS 495 Seminar	1
Subtotal	**16**

Senior Year

Fall

General Education Elective	2
General Education Elective	3
ESPS-Related Elective	3
General Education Elective - Group C	3
General Education Elective - Group A	3
Subtotal	**14**

Spring

General Education Elective	6
General Education Elective	6
General Education Elective	1
Subtotal	**13**
Total Credits	**120**

*CMST 111 Speech Communication is recommended.

For more information, contact Program Coordinator David Buckley at 570-422-3351 or via e-mail at dbuckley@po-box.esu.edu.

Bachelor of Science in Earth and Space Science - Secondary Education

Are you interested in...

- Astronomy and Earth Science
- Sharing your love of science with others
- Encouraging students to discover the world around them
- Helping students begin careers in science

Choose Earth and Space Science — Secondary Education at ESU

- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty
- Partnerships with area school districts

Is Earth and Space Science - Secondary Education a career path for me?

Career Potential

- High School Astronomy Teacher
- High School Earth Science Teacher
- Junior High School Earth Science Teacher

Career Settings

- Public High School
- Private High School or Preparatory Academy

More detailed career information is available from the department.

Bachelor of Science in Earth and Space Science - Secondary Education

Program Features

48 Semester Hours

- **Required major courses:** BIOL 114, 474; CHEM 121, 123; GEOG 120, 121, 220; PHYS 121, 122, 124, 131 (or 161), 132 (or 162), 495; 2 courses from (PHYS 304, 305, 404; BIOM 469, 480; GEOG 321); 1 course from (BIOL 200, 210; CHEM 108, 373); 3 additional credits related to the major, approved by the adviser.
- **Corequisite courses:** MATH 135, 140; one course in CPSC.
- **Required professional education courses:** MCOM 262; PSED 161, 242, 346, 420, 421, 430, 431; REED 321, PHYS 499.
- **Recommended course:** CMST 111.
- **Additional requirements:**
- At least nine credits of required courses (not corequisites), 300-level or above must be completed at ESU. A minimum of a "C" must be obtained in each of the required courses.
- The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section *The College of Education* in the Undergraduate Catalog for specific requirements for admission into teacher education programs.
- **Coordinator:** Professor Robert Cohen, Department of Physics.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSED 161: Foundations of Education	3
GEOG 120: GE: Physical Geography	3
PHYS 121: GE: Astronomy I: Sky and Solar System	3
*General Education Elective - Group A	3
ENGL 103: English Composition	3
PHYS 124: Observational Astronomy Lab	1
Subtotal	**16**

Spring

GEOG 121 GE: Physical Geology	3
PHYS 122 GE: Astronomy II: Stars and Galaxies	3
CPSC 101 GE: PC's and Their Uses in Science	3
MATH 135 GE: Pre-Calculus	3
General Education Elective - Group C	3
Subtotal	**15**

Sophomore Year

Fall

MATH 140 GE: Calculus 1	4
BIOL 114 GE: Introductory Biology I	4
PSED 242: Educational Psychology	3
General Education Elective - Group A (2nd English)	3
Fitness Elective	1
Subtotal	**15**

Spring

PHYS 131 GE: Fundamental Physics I	4
GEOG 220 GE: Meteorology	3
MCOM 262: Educational Communication and Technology	3
General Education Elective - Group A	3
General Education Elective - Group C	3
Subtotal	**16**

Junior Year

Fall

REED 321: Teaching of Reading in Secondary Schools	3
PHYS 132 GE: Fundamental Physics II	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Laboratory	1
Earth and Space Science Elective	3
Fitness Elective	1
Subtotal	**15**

Spring

PSED 420: Seminar in Secondary Education I	3
BIOL 474: Introduction to Oceanography	3
Environmental Science Elective	3
General Education Elective - Group A	3
Earth and Space Science Elective	3
PHYS 495: Seminar	1

Subtotal	**16**

Senior Year

Fall

PSED 421: Seminar in Secondary Education II	2
PSED 446: Teaching of Science in the Secondary School	3
ESPS-Related Elective	3
General Education Elective - Group C	3
General Education Elective - Group A	3
Subtotal	**14**

Spring

PSED 430: Student Teaching in Secondary Education/Middle School/Junior High School	6
PSED 431: Student Teaching in Secondary Education/Senior High School	6
PHYS 499: Student Teaching Internship	1
Subtotal	**13**
Total Credits	**120**

**CMST 111 Speech Communication is recommended.*

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact Program Coordinator Robert Cohen at 570-422-3428 or via e-mail at rcohen@po-box.esu.edu.

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Associate Professors:
John Elwood, Chair (jelwood@po-box.esu.edu)

Mary Anne Moore (mamoore@po-box.esu.edu)

Assistant Professor:
Mark Stewart (mstewart@po-box.esu.edu)

Course Descriptions

PHYS 101 GE: Physical Science - Force, Matter and Energy (3)

This course examines selected fundamental concepts necessary to the understanding of physical phenomena. Topics included are motion, atomic structure, waves, heat and thermodynamics, and nuclear science. Science as a process – its attributes, strengths, and limitations – is also examined. Demonstrations dealing with physical principles characterize much of the course.

PHYS 102 GE: Physics Liberal Art (3)

This course acquaints students with what physics is and how it is important. It provides an introduction to physics and its development, examines the physical world in which we live, and explores issues and technologies with which physicists and engineers are involved. This course does not involve problem solving and is available to non-science majors with a non-mathematical background.

PHYS 103 Science for Involvement (3)

This course is offered primarily for non-science majors, to help students attain the science literacy and science competencies which are the foundation for acceptable performance in their own chosen fields. The course is group interaction– and activity– oriented, based upon students' selections from a list of the suggested topics.

PHYS 105 GE: Physics for the Inquiring Mind (3)

This is a descriptive course designed to raise the level of scientific literacy, particularly in the basic tenets of physics. Topics include Newtonian mechanics, satellite trajectories, and several areas of current interest.

PHYS 106 GE: Modern Physics (3)

The course examines recent developments that have led to our current understanding of nature and have influenced human thought and values. The universal symmetries, relativity, and quantum mechanics will be examined in depth by exploring the processes of reasoning and investigation that led to their discoveries and a connection sought between modern physical thinking and events of the current scene.

PHYS 107 GE: Physics and Forensic Science (3)

The course considers forensic evidence and the reliability of the data analyzed in the laboratory. It looks at basic physics principles found in optics, statics and kinesmatics and shows how forensic scientists apply them to court room evidence.

PHYS 110 GE: Sound Waves and Light (3)

This course is designed to inform the students of the wave nature of the physical world. It is a qualitative presentation of the phenomena of sound, light, electricity, and magnetism.

PHYS 111 Engineering Graphics (2)

This course includes multiview projections, pictorial drawings, dimensioning, engineering standards and working drawings. It involves an introduction to creative design, space analysis, graphs, graphical mathematics, vector analysis, and design implementation (CAD and manual). Prerequisite: MATH 120 or 121.

PHYS 116 Energy Conservation in the Home (3)

In order to provide a comfortable lifestyle for future generations as well as the present one, intelligent well-informed decisions are necessary. The material presented in this course will help the student understand the problems, options, and costs involved in such decisions so that the student may take informed actions in the use of energy.

PHYS 117 GE: Energy (3)

This course introduces the concept of energy in all its forms and discusses its role in modern society. Discussions include sources of energy, along with their social and environmental impact.

PHYS 118 GE: Solar Energy (3)

This is a course designed to inform the student of the source of solar energy, what's being done to harness this energy, and how students may benefit from solar devices they may build themselves. The course requires very simple calculations and includes the construction of one solar device. Also included are several detailed analyses of the economics of home solar systems.

PHYS 121 GE: Astronomy I: The Sky and Solar System (3)

This course in descriptive astronomy deals with the scientific principles essential to the understanding of astronomy. Topics covered include basic observational astronomy, the historical development of astronomy, spectroscopy and telescopes, planetary science, the origin and evolution of the solar system, and the sun as a star.

PHYS 122 GE: Astronomy II: Stars and Galaxies (3)

This course in descriptive astronomy is a continuation of Astronomy I. The topics covered include observational properties of stars, stellar life cycles, pulsars and black holes, the Milky Way Galaxy, extragalactic astronomy, quasars, and cosmology. Prerequisite: PHYS 121.

PHYS 123 GE: Introduction to Physical Cosmology (3)

This is a descriptive course which introduces current theories on the origin and evolution of the universe. Particular emphasis is placed on how ideas from such diverse areas of study as extragalactic astronomy, relativity, and particle physics have combined to provide a reasonably coherent theory of the beginning of time and the cosmos. Prerequisite: Honors Program.

PHYS 124 Observational Astronomy Lab (1)

This course is intended to give the student experience in the observational techniques of modern astronomy. The course is designed to complement Physics 122 Astronomy 2, but may be taken with Physics 121 Astronomy I. Corequisite: PHYS 121 or 122.

PHYS 131 GE: Fundamental Physics I (4)

Together with Fundamental Physics II, this course covers basic principles and methods of all branches of classical physics at an introductory level. Topics include Newtonian mechanics, gravitation, waves, optics, heat, electricity, and magnetism. Prerequisite: MATH 135.

PHYS 132 GE: Fundamental Physics II (4)

Physics 132 is a continuation of Physics 131. Topics covered include electricity, magnetism, electromagnetic radiation and optics. Some brief material on atomic and nuclear physics as well as quantum mechanics is introduced where possible. Prerequisites: PHYS 131; MATH 135.

PHYS 151 Physics of Flight (3)

This course is intended to give its students knowledge of the forces acting on aircraft in flight maneuvers, the mechanisms of each flight and engine instrument, aircraft electronics, reference frames used in flight navigation, very high frequency omni range navigation techniques, non-directional beacon navigation techniques, the physical background for federal aviation regulations, and necessary weather consideration.

PHYS 152 Physics of Flight Lab (1)

This course is intended to give the student practical applications of the theoretical aspects of the topics covered in PHYS 151. Included in this lab are 10 hours of flight instruction with an FAA certified flight instructor or a student's solo license, whichever comes first. An additional fee is required. Contact the Department of Physics for details.

PHYS 161 GE: Physics I (4)

Together with Physics II, this course covers basic principles and methods of all branches of classical physics at an introductory level. Topics include Newtonian mechanics, gravitation, waves, optics, heat electricity and magnetism. Prerequisite: MATH 140.

PHYS 162 GE: Physics II (4)

Continuation of Physics I. Prerequisites: MATH 140, PHYS 161. Corequisite: MATH 141

PHYS 201 Statics (3)

This course examines the composition and resolution of forces, equilibrium of particles and rigid bodies, centroids, moments and products of inertia, distributed forces, analysis of structures, analysis of beams, friction, and virtual work. Prerequisites: PHYS 161, MATH 140, 141 concurrently.

PHYS 202 Dynamics (3)

This course considers dynamics of particles and rigid bodies, relative motion, dynamic equilibrium, D'Alembert's principle, work, energy, impulse, and momentum. Prerequisites: PHYS 161, 201; MATH 141.

PHYS 240 Basic Electronics (4)

This course is an introduction to basic electronics and instrumentation for scientists. The goal is to introduce the student to modern electronic circuit building blocks – integrated circuits and electronic sensors along with electronic instrumentation. Special emphasis will be placed on the application of the personal computer (PC) as a virtual electronic instrument. The students will receive hands on experience in the use of LabView software that provides a graphical programming environment to use the computer plug-in cards and a PC for analysis and display. This new technology will be used in the study of basic electronic and DC circuits, semiconductor circuit devices (transistors) and analog and digital integrated circuits. Prerequisites: Completion of an introductory physics course and/or permission of the instructor.

PHYS 241 Linear and Digital Electronics (3)

This course is designed for students in the sciences or computer sciences who wish to review basic electricity and how electronic components are combined to form linear (e.g. amplifier) and digital functions.

PHYS 251 CJA: Traffic Accident Investigation (3)

The course considers the physical aspects of traffic accident investigation and reconstruction. Included are such topics as recording information, photography, dynamics of vehicles, and speed determination. It is offered in cooperation with the Institute of Criminal Justice Administration.

PHYS 252 CJA: Advanced Criminalistics (3)

This course considers forensic evidence and data disclosed in the laboratory and its reliability. An understanding of the scope of expert examinations is achieved. The nature of the results expected from laboratory inquiries conducted by trained specialists is realized.

PHYS 253 CJA: Fire and Arson Investigation (3)

This course considers the physical aspects of fire and arson investigation. Included are such topics as properties of materials, physical aspects of fires, physical examination of the fire scene to determine origin, ignition sources and their physical aspects, and characteristic physical features indicating incendiarism.

PHYS 261 Physics III (3)

This course extends the concepts of PHYS 161 and PHYS 162 to an exploration of wave phenomena, thermodynamics, and special relativity. Prerequisites: PHYS 161, 162, MATH 140, 141 and 240 or concurrent enrollment.

PHYS 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

PHYS 301 Strength of Materials (3)

This course explores strength and elasticity of materials, theory of stresses and strains, deflection of beams and shafts, torsion, and buckling of structures. Prerequisites: PHYS 201, MATH 140.

PHYS 304 Modern Physical Astronomy (3)

This course is a quantitative treatment of modern astronomy stressing the application of basic physics for investigating the properties of celestial bodies and systems. Topics will include basic celestial mechanics, radiation and matter, stellar structure and evolution, the structure and motions of galaxies, and cosmology. Prerequisites: PHYS 131 or 161, 121, 122, MATH 140. Corequisite: PHYS 132 or 162.

PHYS 305 Physics of the Atmosphere (3)

This course provides an introduction to the physical process of the atmosphere. Mechanisms affecting heat, moisture and air motion are investigated and related to atmospheric phenomena. Prerequisites: MATH 140, PHYS 131 or 161, GEOG 220, CHEM 121.

PHYS 328 Mathematical Physics (3)

This course introduces the student to common problem-solving techniques used in solving advanced physics problems. Many typical mathematical tools that are essential to solving physics problems are introduced and practiced in this course. Prerequisites: PHYS 162, MATH 240.

PHYS 333 Advanced Physics Lab I (3)

This course is an open-ended but directed laboratory activity in both classical and modern physics. Prerequisites: PHYS 161, 162. Prerequisite or corequisite: PHYS 261.

PHYS 334 Advanced Physics Lab II (3)

This course has the same description as PHYS 333, but different experiments are performed. These two courses can be taken in either order. Prerequisite or corequisite: PHYS 261.

PHYS 350 Cognitive Science (3)

This interdisciplinary course is a study of a topic of common interest in computer science, linguistics, physical science, neuroscience, philosophy and psychology, namely the acquisition, organization, and expression of knowledge. Prerequisite: Honors Program.

PHYS 361 Physics IV (3)

This course introduces the student to the physics of atoms, molecules, nuclei and elementary particles. The course includes early quantum theory, relativistic mechanics, and the wave and quantum properties of photons and electrons; Schrodinger's equation, and its application to the structure of atoms, molecules, and solids; nuclear physics, elementary particles. Prerequisite: PHYS 261, MATH 240, and PHYS 328 or concurrent enrollment.

PHYS 370 The Rise of Modern Science and Technology (3)

The Rise of Modern Science and Technology is an in-depth study of the development of modern physical science and its connection to technology. The models that are considered training points for scientific theory are examined in detail. The mutual interaction of science and technology is presented within the context of scientific development. Prerequisites: Introductory science course at the college level and junior standing; Honors Program.

PHYS 380 Radioisotopes (3)

This course is a study of the origin and characteristics of nuclear radiations emitted from radioisotopes and their attenuation in matter. Laboratory emphasis is placed upon detection and measurement of nuclear radiations and the use of radioisotopes in scientific studies and research. Prerequisite: PHYS 105 or 117 or 131 or 161.

PHYS 401 Quantum Physics (3)

This course introduces ideas of wave mechanics and matrix mechanics. Schrodinger's equation is applied to simple problems. Approximation techniques for the more difficult problems of nuclear and atomic physics are studied. Prerequisites: PHYS 361, MATH 341.

PHYS 402 Contemporary Topics in Science (3)

This course deals with the nature and theoretical basis of recent noteworthy advances in science. Interdisciplinary in design, the course draws its content from the various disciplines of the natural sciences. Emphasis is placed upon topics being reported upon in professional journals. This course also listed as BIOL 402, and CHEM 402. Prerequisite: PHYS 105 or 117 or 121 or 131 or 161.

PHYS 403 Optics (3)

This course will cover geometrical, wave optics and applications of optical phenomena used in industry with an emphasis on how mathematical models of these phenomena are used. Possible topics include diffraction, fourier optics, basics of coherence theory, laser technology, holography and non-linear optics. Prerequisite: PHYS 261 and 328.

PHYS 404 Introductory Astrophysics (3)

This is a course in modern astrophysics stressing the application of physical concepts to the study of the heavens. Topics will include radiative transfer, astrophysical radiative processes, stellar structure and evolution, compact stars and black holes, galactic and extragalactic astrophysics, and cosmology. Prerequisites: PHYS 121, 361, MATH 141.

PHYS 405 The Development of Modern Physical Science (3)

This course examines past works and philosophical thought of noted physical scientists. Emphasis is placed on the nature of scientific discovery and the processes of science. This course is also listed as CHEM 405. Prerequisite: PHYS 105 or 117 or 121 or 131 or 161.

PHYS 411 Thermal Physics (3)

This course deals with heat and thermodynamics and applications to special systems, kinetic theory of gases, and statistical mechanics. Prerequisites: PHYS 162; MATH 141.

PHYS 415 Computational Physics (3)

This course will introduce students to the new and expanding field of Computational Physics. They will learn how to use the computer to solve equations that cannot be solved analytically ("by hand"). Besides reading and learning about the techniques, students will be expected to actually write software to implement some of the techniques learned in class (as homework). This course is meant to extend CPSC 211 Scientific Computing with FORTRAN to more advanced physics problems. Prerequisites: PHYS 162, CPSC 111 (or 211). Corequisite: MATH 341.

PHYS 421 Statistical Physics (3)

Students study large-scale systems consisting of many atoms or molecules. Subjects of statistical mechanics, kinetic theory,

thermodynamics, and heat are introduced. Prerequisites: PHYS 162, MATH 240.

PHYS 423 Advanced Electronics (3)

This course will develop the theory of precision operational amplifier circuits, analog to digital converters, digital to analog converters and analog switches. The course will introduce the student to digital design using discrete circuits, PAL's and Field Programmable Gate arrays. The student will learn about the control and interfacing of these circuits to microcontrollers as well as understanding the implications of hardware vs. software control and processing of signals. Prerequisites: PHYS 240, MATH 140, 141 and either PHYS 162 or 132.

PHYS 428 Theoretical Physics (3)

The main thrust of this course will be the application of various standard mathematical techniques to the solution of upper level problems in Mechanics, Electromagnetism, Wave Theory, Fluid Dynamics, Statistical Mechanics, Quantum Physics, and Relativity. Students considering advanced study or employment in the field of Physics or Engineering are highly encouraged to enroll. Prerequisites: PHYS 261, MATH 240.

PHYS 431 Electromagnetic Theory (4)

This course starts with an introduction to electrostatic problems. The student is then introduced to special relativity and the Lorentz transformation. Special relativity is then used to transform the electrostatic problem to understand magnetic fields, Maxwell's equations, and electrodynamics. Finally, an introduction to electromagnetic waves and their propagation is developed. Prerequisites: PHYS 161, 162. Corequisite: MATH 341.

PHYS 432 Applied Electromagnetic Theory: Radio Waves and High Frequency Circuits (4)

This course will apply Maxwell's equations to the propagation of electromagnetic waves in free space, wave guides and coaxial cables. The transmission line equation will be developed and analyzed for the case of real practicable transmission line. Maxwell's equations will be used to analyze antennas. Prerequisites: PHYS 161, 162, 431 and Math 341.

PHYS 433 Atomic and Nuclear Physics (3)

This course examines the quantum-mechanical basis of atomic and nuclear structure and studies the phenomena of atomic and nuclear transitions. Prerequisite: PHYS 361.

PHYS 441 Theoretical Mechanics (3)

This course discusses the application of Newtonian mechanics to more complicated systems than those studied in Physics I. Prerequisites: PHYS 261, 328, MATH 240.

PHYS 471 Special Problems in Physics (3)

This course introduces the student to detailed and complete treatments of problems which require expertise from several areas. Prerequisites: PHYS 161, 162, 261,361.

PHYS 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular academic discipline. Independent study is a process through which a student either sharply increases his/her already advanced knowledge of a subject matter or increases his/her appreciation about an academic discipline that is related to a student's advanced knowledge of a subject. The proposed independent study must be submitted to the department for approval. The faculty member supervising the independent study must provide a minimum of five (5) hours of time per credit hour upon request of the student. Prerequisite: PHYS 105 or 131 or 161.

PHYS 486 Field Experience and Internships (Semester hours arranged)

Prerequisite: PHYS 105 or 110 or 117 or 121 or 131 or 161.

PHYS 493 Research in Physics (3)

This course is an experimental investigation selected by the student in consultation with a member of the faculty and carried out under the faculty's supervision. Approximately twelve hours of research per week is required for three credits. Prerequisites: Junior or senior standing as a physics major or by permission of the department.

PHYS 495 Seminar (1)

Participants perform self-guided, in-depth examinations of relatively common phenomena, contemporary issues and/or recent research in physical and related fields. Supporting evidence and theory is documented in formal written and/or oral reports by participants. Attendance in departmental colloquia is required. Prerequisites: PHYS 131 and 132, or 161 and 162.

PHYS 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy.

Economics

College of Arts and Sciences

The Faculty of Social Sciences
420 Normal Street
570-422-3148.....www.esu.edu/econ

Academic Opportunities
Economic students have the opportunity to write for the E-News, a well established and respected newsletter that has been published since 1997 and is staffed exclusively by student editors. Students are guided by faculty to research and publish articles on international, national and regional economic trends as well as topics related to finance, investment and business issues. Each year the Economics faculty supervise and help interested and qualified students research, prepare and present papers at the annual undergraduate research conference at Ursinus College.

Omicron Delta Epsilon, the International Honor Society in Economics, confers distinction for high scholarly achievement in Economics. The Alpha Xi Chapter at ESU has proudly inducted more than 275 students into ODE since its inception.

The faculty is actively involved in research projects both individually and through the Business Economics Research Group of ESU (BERG), and enjoy great success in procuring funded research projects from both government and private sources. Students benefit by serving as research assistants and contributors under the guidance of experienced faculty researchers.

About the Program
The Bachelor of Arts Degree in Economics provides students with the opportunity to obtain a foundation in traditional economic theory and real life applications that are the basis for analytical thinking and sound managerial decision making. Economics students may choose to specialize in any one of three areas: Quantitative Economics, Global Markets or Finance.

The program is designed to teach students how to frame questions for economic analysis, to determine which principles, tools and data apply to the problem under consideration, and how to analyze unexpected results when they occur.

With its focus on economic theory and strong research skills, the Economics degree program at ESU prepares students for careers in management, finance and administration in business and the public sector. Students who enter the work force report that they are involved in successful careers at greater than average starting salaries.

Students majoring in Economics are also well-prepared for higher education in business, economics, public administration, banking and law. Graduates who appy to prestigious MBA, law and graduate schools have found that the analytical skills inherent in the economics program are sought after and respected by the best graduate schools.

Mission
To provide an excellent undergraduate economics education so that students can critically analyze issues related to the domestic and global economy, business and governmental policy, and to prepare them for a successful career or to pursue graduate studies in economics, business management, law and related fields.

The department is characterized by great cultural and programmatic diversity. Students are exposed to a number of traditional business and economics courses from experienced faculty whose combined professional interests and expertise cover all of the following areas:

- Economic Theory and Applications
- Quantitative Business Economics
- Finance and Accounting
- Regional Economics
- Labor Economics
- Money and Banking

Did You Know?

- Economics majors are paid one of the highest salaries of all majors?
- Economics majors receive one of the highest scores on the LSAT?
- Richard Silverman, admissions director for the Yale School of Management, said: *"The best people are more frequently taking economics as their major. . . It shows they have the intellectual fire in the belly to perform well in an MBA program."*

Is Economics a career path for me?

Career Settings
The Bachelor of Arts Economics degree prepares students for either graduate studies or careers in:

- International Trade and Global Markets
- Management and Quantitative Economics
- Finance and Accounting
- Operations Research
- Labor Economics
- Money and Banking
- Government and Politics
- Forecasting and Actuarial Work

More detailed career information is available from the department.

Bachelor of Arts in Economics

39 semester hours

- **Required courses:** ECON 111, 112, 311, 312, 495 MGT 250 or MATH 110, one of: MGT 201;MATH 130, 131, 135, MGT 306, ECON 321. one "Analytical and Research Elective": ECON 332, 415; MGT 350, 451
- An additional 9 professional elective credit from a combination of the following groups (at least one of the professional elective course must be a 300 level course and at least one must be 400 level course):
  - Analytical and Research Elective: ECON 332, 415; MGT 350, 451
  - Global Economics Electives: ECON 313, 314, 432
  - Financial and Monetary Electives: ECON 122, 236, 411, 412, MGT 342
- Please see the university requirements.
- **Note:** Economics majors must (1) complete at least five courses at ESU with rubrics that begin with either MGT or ECON and (2) attain a QPA of 2.25 or better in all Economics courses taken at ESU. The quantitative requirements should be completed as early as possible.

Program Curriculum Plan

(Subject to change by the university without notice)

I. Required Courses:
ECON 111: Principles of Macroeconomics

ECON 112: Principles of Microeconomics

ECON 311: Intermediate Macroeconomics

ECON 312: Intermediate Microeconomics

ECON 321: History of Economic Thought

ECON 495: Senior Seminar

EMGT 250: Quantitative Business Analysis I

EMGT 201: Decision Science

EMGT 306: Financial Management I

II. 12 Additional Credits in Economics –
Students are required to select four additional courses from the following areas:

A. Quantitative
ECON 322: Labor Economics

ECON 332: Forecasting Methods

ECON 413: Managerial Economics

ECON 415: Econometrics

EMGT 350: Quantitative Business Analysis II

EMGT 451: Management Science

B. Global/International
ECON 313: International Trade

ECON 314: International Finance

ECON 432: Economic Growth/Development

ECON 442: Comparative Economic Systems

EMGT 362: Globalization and International Management

C. Financial and Monetary Economics
ECON 236: Money and Capital Markets

ECON 411: Public Finance

ECON 412: Money and Banking

EMGT 307: Financial Management II

EMGT 342: Investment Analysis

For more information, contact the department by calling 570-422-3148 or visit www.esu.edu/econ

Economics Minor

18 semester hours

- **Required courses:** Six Economics courses (18) credits including ECON 111 and 112 and ECON 311 or 312, and any three additional ECON courses. A minimum of three courses must be 300 or 400 level.
- **Additional requirements:** At least three of the six required courses for the Minor in Economics must be completed at ESU.

Economics and Management Interdisciplinary Minor

21 semester hours

- **Required courses:** Four Economics courses including ECON 111, 112 and any two additional ECON courses. Three Management courses including EMGT 200 and any two additional EMGT courses. A minimum of three courses (9) credits of the minor's total of seven courses must be 300 or 400 level.
- **Additional requirements:** At least four of the seven required courses for the Minor must be completed at ESU. This minor is NOT available to Economics or Management majors.

Faculty

Professors:
Constantinos Christofides (cchristofides@po-box.esu.edu)

Pattabiraman Neelakantan, chair (pats@po-box.esu.edu mailto:pats@po-box.esu.edu)

Associate Professors:
Todd Behr (tbehr@po-box.esu.edu)

Michael DeCosmo (mdecosmo@po-box.esu.edu)

Course Descriptions

ECON 111 GE: Principles of Macroeconomics (3)
This course is an introduction to the theory of income determination. It covers the topics of national income accounting, inflation, unemployment, fiscal policy, and monetary policy. A survey of consumption, investment, and multiplier theory is also provided.

ECON 112 GE: Principles of Microeconomics (3)
This course is an introduction to price theory, including theory of consumer behavior, production theory, and cost analysis; the study of commodity pricing under conditions of perfect competition, monopoly and imperfect competition; a survey of distribution theory, factor pricing, and international trade and finance.

ECON 121 GE: Consumer Education (3)
This course consists of an analysis of human wants in the process of maximizing satisfactions; consumption and patterns of family life cycle are explored. Emphasis is on the individual and the principles and techniques which govern successful consumer behavior in the areas of budget planning, consumption expenditures, and credit transactions. Recent changes in consumerism are explored.

ECON 122 GE: Personal Finance (3)
This course applies the theoretical tools of microeconomics and business management techniques to the problems of consumer choice. Emphasis is placed on formulating and managing an investment portfolio. This course includes a review of elementary accounting principles and an introduction to federal income tax preparation techniques as well as retirement and estate planning.

ECON 221 GE: Contemporary Economic Problems (3)
This course is a survey of selected problems in the production, exchange, and distribution of wealth; i.e. attempts to quantify the empirical dimensions, assumptions and value judgments associated with each problem. Economic theory and analytical techniques are applied to current problems.

ECON 236 Money and Capital Markets (3)
A comprehensive analysis of capital markets is presented via the flow of funds from saver-lender to borrower-spender. The development of financial markets, their present structure and operations techniques, and the merits of the innovative investments they have created are examined in detail. Topics covered include money and credit instruments; risk analysis; determination of interest rates; structure and operations of money, debt, capital and Euro markets; government regulations of financial markets; behavior of depository, contractual

and investment intermediaries; and an evaluation of the changing roles of financial institutions.

ECON 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the curriculum.

ECON 311 GE: Intermediate Macroeconomics (3)

Reviews and extends the theory of income determination, surveys consumption theories, and analyzes problems of inflation and unemployment. It includes critical evaluations of fiscal, monetary, and income policies, as well as a brief introduction to modern theories of growth. Prerequisite: ECON 111.

ECON 312 GE: Intermediate Microeconomics (3)

This course reviews and extends the analysis of value and distribution: it covers traditional price theory techniques in production, exchange, and distribution for firms in markets of perfect and imperfect competition. It includes an introduction to general equilibrium analysis, linear programming, and welfare economics. Prerequisite: ECON 112.

ECON 313 GE: International Trade (3)

This course examines the development of international trade and finance; it includes a survey of classical, neoclassical, and modern theories and analyzes balance-of-payments techniques and principles. It includes critical evaluation of the arguments for protection, the economic effects of tariffs and quotas, U.S. trade policy, international financial institutions, and international liquidity. Prerequisites: ECON 111, 112.

ECON 314: International Finance (3)

This course considers the monetary and financial flows between nations that results from the international trade of goods and services. Specific topics include a detailed examination of payments among nations, the foreign exchange markets, exchange rates and their determinants, government policies with respect to foreign exchange markets and the choice between fixed versus floating exchange rates. Prerequisites: ECON 111, 112.

ECON 321 GE: History of Economic Thought (3)

This course is brief survey of the life and times of the major economic thinkers. It includes a critical evaluation of the contributions of each school of thought. Emphasis is on the evolution of economic analysis and its methodology. Prerequisites: ECON 111, 112.

ECON 322 Labor Economics (3)

Labor economics applies macroeconomics and microeconomic theory, forming a critical part of the core of analytical economics. This course explores topics such as educational choice, wage determination, employment discrimination, labor law, collective bargaining, etc. with special emphasis on international labor trends. Prerequisites: ECON 111, 112.

ECON 332 Forecasting Methods (3)

Time series, multiple regression, qualitative, Box-Jenkins, and other techniques are explained and applied in the forecasting of industrial production, sales, and financial variables. Emphasis is placed on the construction, utilization, and evaluation of computer generated forecasting models. Prerequisites: ECON 112; MATH 110.

ECON 411 Public Finance (3)

This is one of the two major macro-policy oriented courses for economics majors designed to familiarize students with government budgets; i.e. the course examines the structure of expenditures and revenue, fiscal incidence, project analysis, and the problems encountered in the performance of fiscal stabilization techniques to attain given policy targets. Prerequisites: ECON 111, 112, 311.

ECON 412 Money and Banking (3)

This course deals with the development of money types and banking systems; examination of techniques and operations of the banking system of the U.S.; survey of monetary theory and policy. Prerequisites: ECON 111, 311.

ECON 413 Managerial Economics (3)

This course is a survey of mathematical techniques useful in constructing economic and managerial models, which help the student identify and systematically formulate managerial problems. The course concentrates on pricing decisions, demand theory, production and cost analysis, and the empirical problems involved in managerial decision making. Prerequisites: ECON 112; MATH 110.

ECON 414 Macroeconomics for Managers (3)

This course deals with national economic activity from a manager's perspective and with how government policies affect economical performance. The course offers practical explanation of the short-term linkages that impact the performance of the overall economy. Emphasis is placed on the empirical underpinnings and managerial implications of macroeconomics. Issues of how business managers and executives can use macroeconomics data and information to improve the performance of their businesses are addressed. Prerequisites: ECON 111, 112.

ECON 415 Econometrics (3)

This course is an introduction to the theory of econometrics and its applications. The course will concentrate on determining and measuring the relationship between economic variables. Simple regression, correlation, multiple regressions, and the nature of econometric models will be discussed. A series of applications will conclude the course. Prerequisites: ECON 112; MATH 110.

ECON 432 Economic Growth and Development (3)

Critical evaluation of the historical and theoretical development of laissez-faire, centralized planning, and mixed economies; emphasis is placed on capital accumulation, industrialization, and economic expansion in the developed and underdeveloped nations, current problems, and alternative policies. Prerequisites: ECON 111, 112.

ECON 442 Comparative Economic Systems (3)

The purpose of this course is the study of the different economic systems from the "free enterprise system" to the "command economies," with the Third World economic system in between. An attempt is made to analyze the institutional structure of each economic system and the factors underlying it. The universality of economic principles is brought out. Prerequisites: ECON 111, 112.

ECON 485 Independent Study (Semester hours arranged)

A student wishing to take independent study either on the undergraduate or graduate levels (other than under 571) should discuss the plan with a member of the department. If the faculty member agrees to sponsor the project, the proposal should be submitted to the department chair. The chair, after approving the

independent study project, shall bring it to a departmental meeting for confirmation. The dean of the college gives final approval after receiving the minutes of the departmental meeting which identifies the students who were approved by the department to do independent study.

ECON 486 Field Experiences and Internships (Semester hours arranged)

ECON 495 Senior Seminar (3)

The course consists of a series of lectures and discussions on economic topics designed to lead senior students into current scientific literature and research methodology. Prerequisite: Permission of the department.

Engineering Transfer Program

College of Arts and Sciences

The Faculty of Science
Gessner Science Hall, Room 107
570-422-3341.....www.esu.edu/physics

About the Program

This engineering transfer program, which also is called the "3-2 engineering program," encompasses three years of study at East Stroudsburg University and two years of study in an approved engineering program at Penn State University or other participating engineering school. Upon completion of the engineering program, the student has the potential to receive both an engineering degree (from the cooperative university) and a Bachelor of Arts in Physics from ESU (check with current requirements).

Are you interested in...

- Inventing
- Logical thinking and creative problem solving
- Helping others by building things that make this world a better place
- Learning how things work
- Physics and math

Choose the Physics – Engineering Transfer Program at ESU

- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty

Is Physics — Engineering a career path for me?

Career Potential

- Electrical Engineer
- Chemical Engineer
- Civil Engineer
- Aeronautical Engineer
- Computer Science Engineer
- Biomedical Engineer

Career Settings

- Large Engineering Firm
- Your own engineering firm
- Local, State, and governmental agencies
- National laboratories
- Private Research Laboratories

More detailed career information is available from the department.

Bachelor of Arts in Physics - Engineering Transfer Program

Program Features

22 Semester Hours in Physics;

38 Semester Hours of Corequisites

- ***Required major courses:** PHYS 111, 161, 162, 201, 202, 261, 361.
- ***Corequisite courses:** CHEM 121, 123, 124, 126; MATH 140, 141, 240, 320, 341; CMST 111; ENGL 204; ECON 111 or 112; CPSC 111 or 211.
- **Other requirements:** Completion of a Bachelor's degree in engineering at an institution approved by the coordinator of the program.

**Different engineering disciplines have different requirements. Please see cooperative agreement or coordinator for specific requirements of specific engineering disciplines.*

- **Coordinator:** Mark Stewart, Department of Physics, mstewart@po-box.esu.edu, 570-422-3350.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PHYS 111: Engineer Graphics	2
MATH 140 GE: Calculus 1	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
ENGL 103: English Composition	3
ECON 111 GE: Principles of Macroeconomics (Group C)	3
Subtotal	**16**

Spring

PHYS 161 GE: Physics I	4
MATH 141 GE: Calculus II	4
CHEM 124 GE: General Chemistry II [1]	3
CHEM 126 GE: General Chemistry II Lab [1]	1
General Education Elective (Group C)	3
General Education Elective (Group A)	3
Subtotal	**18**

Sophomore Year

Fall

PHYS 162 GE: Physics II	4
MATH 240: Multivariate Calculus	4
MATH 220: Discrete Mathematical Structures [3]	3
General Education Elective (Group A)	3
GEOG 121: Physical Geology [1] (Group C)	3
Subtotal	**17**

Spring

PHYS 261: Physics III [1]	3
MATH 320: Linear Algebra [1]	3
CPSC 111 GE: Introduction to Computer Science and Problem Solving [1]	4
ENGL 204: Technical Writing [1]	3
General Education Elective (Group A)	3

Fitness Activity Elective	1
Subtotal	**17**

Junior Year

Fall

PHYS 201: Statics [1,2]	3
PHYS 361: Physics IV [1]	3
MATH 341: Differential Equations	3
General Education Elective (Group A)	3
General Education Elective (Group C)	3
Subtotal	**15**

Spring

PHYS 202: Dynamics [1,2]	3
MATH 311: Statistics I [1]	3
Concentration based elective	3
General Education Elective (Group A)	3
General Education Elective (Group C)	3
Fitness Activity Elective	1
Subtotal	**16**
Total Credits	**99**

Whether or not this course is required depends on your engineering discipline and the school that you transfer to.
PHYS 111, 201, 202 are offered every other year. PHYS 201 and 202 should be taken in the second or third year. PHYS 111 should be taken in the first or second year.
This course is a prerequisite for MATH 320
This course would be chosen based upon your engineering discipline.

NOTE: *Some elective slots must be used to fill individual engineering concentration requirements.*

For more information, contact Program Coordinator, Mark Stewart at 570-422-3350 or e-mail at mstewart@po-box.esu.edu.

Faculty

Professors:
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Mary Anne Moore (mamoore@po-box.esu.edu)

Assistant Professor:
Mark Stewart (mstewart@po-box.esu.edu)

English

College of Arts and Sciences

The Faculty of Arts and Letters
Stroud Hall, Room 309
570-422-3398.....**www.esu.edu/engl**

About the Program

An English degree is one of the most flexible and useful degrees you can earn. English majors prepare themselves for a wide variety of careers. They become teachers and administrators, writers and editors, and directors of corporate communications and public relations programs.

They earn graduate degrees in English, journalism, and communication, and they go to law school and MBA programs.

An Internship in Written Expression is offered that provides students with practical experience in writing/editing/researching or publishing.

About the Degrees

English majors select from four tracks and dozens of courses:

The **Bachelor of Arts** program offers three tracks:

The **Literature Track** is a traditional program rooted in literature surveys and upper-division course work in major writers and topics.

The **Professional and New Media Writing Track** develops composition and editing skills in journalism, technical writing, writing for the Web, advertising and public relations, and multimedia writing.

The **Writing Track** combines the study of literature with creative writing workshop experiences, including poetry, fiction writing, and creative non-fiction.

The **Bachelor of Science degree in Secondary Education-English** is offered to those who intend to teach. Literature and classroom methodology are studied so students can become effective and certified middle and high school teachers

Are you interested in...

- Reading
- Writing or Editing
- Teaching

Choose English at ESU

- Small advanced class sizes
- Practical field experiences
- Qualified, experienced faculty

Is English a career path for me?

Career Potential

- Teaching
- Public relations
- Writer/editor
- Advertising

Career Settings

- Education
- Corporations
- Media outlets
- Internet

More detailed career information is available from the department.

Bachelor of Arts in English - Concentration: Literature

39 semester hours

- **Required major courses:** ENGL 163,(or 162 with chair's permission) 260, 261, 264, 265, 374, 390, 495; one course in major writing (not ENGL 103, 204 or 205); one course in major writers (391, 392, or 393); two courses in literary movements (356, 357, 358, 377 thru 388, 389), one course in linguistics (332, 334).
- **Other requirements:** Six semester hours in a foreign language or its equivalent.
- A minimum of 18 credits in English (not including ENGL 103) must be earned at East Stroudsburg University. A minimum of nine credits in English course work at the 300-400 level must be earned at East Stroudsburg University.
- **Note:** Semester hours should be distributed equally among British and American literature courses.
- Please see the university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
ENGL 163: Study of Literature	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science (lab)	4
General Education Elective – Social Science	3
Subtotal	**16**

Spring

ENGL 203: Advanced Composition	3
ENGL 265: American Literature II	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Sophomore Year

Fall

ENGL 264: American Literature I	3
ENGL 260: English Literature I	3
General Education Elective – Arts & Letters (Foreign Language)	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Spring

ENGL 261: English Literature II	3

General Education Elective – Arts & Letters (Foreign Language)	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

ENGL 390: Shakespeare	3
ENGL 374: Literary Criticism	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

ENGL 332: Linguistics	3
ENGL 393: Major Writers	3
ENGL 3xx: – Literary Movement	3
Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall

English Elective	3
English Elective	3
English Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

ENGL 3xx: – Literary Movement	3
ENGL 495: Senior Seminar	3
Elective	3
Elective	3
Subtotal	**12**
Total Credits	**120**

Bachelor of Arts in English - Professional and Media Writing Track

39 semester hours

- **Required major courses:** ENGL 163 (or 162 with Chair's permission), 203, 204 or 205, 215, 225, 231, 491; three of the following (at least two of must be at the 300-400 level): ENGL 218, 220, 224, 290, 305, 306, 307, 315, 316, 317, 319, 320, 415; one Literature course at the 200-level and one at the 300-level or above; six additional credits from the following ENGL 486, other English offerings, or related courses from other departments: MCOM 255, 262, 355, CMST 229, 255, 355, 410, ART 220, 280.
- **Other requirements:** Two semesters in an editorial position on *The Stroud Courier* or *Calliope*; or a portfolio of published writing, or a portfolio of writing conducted for one or more agencies in the context of service learning or internship, or a combination of these options, as agreed to by the student, the Department Chair, and the student's adviser
- A minimum of 18 credits in English (not including ENGL 103) must be earned at East Stroudsburg University. A minimum of nine credits in English coursework at the 300-400 level must be earned at East Stroudsburg University.
- Please see the university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
General Education Elective – Arts and Letters	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Fitness Elective	1
Subtotal	**16**

Spring

ENGL 163: Study of Literature	3
ENGL 203: Advanced Composition	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Sophomore Year

Fall

ENGL 204: Workplace Writing	3
ENGL 215: Print Journalism	9
General Education Elective – Arts & Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Spring

ENGL 225: Introduction to Creative Writing	3
ENGL 231: English Grammar	3
General Education Elective – Arts & Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Junior Year

Fall

ENGL 3xx – Writing Course	3
ENGL 2xx – Literature Course	3
ENGL 218: – Sports Writing	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Spring

ENGL 317: Reviewing Arts for Newspapers and Magazines	3
ENGL 316: Print Journalism II: Magazines	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall

English Elective	3
ENGL 3xx – Writing Course	3
ENGL 3xx – Literature Course	3
Elective	3
Elective	3
Subtotal	**15**

Spring

ENGL 491: Senior Seminar in Professional Writing	3
ENGL 486: Internship	3
Elective	3
Elective	3
Elective	1
Fitness Elective	1
Subtotal	**14**
Total Credits	**120**

Bachelor of Arts in English - Writing Track

39 semester hours

- **Required major courses:** ENGL 163 (or 162 with Chair's permission), 203, 260, 264, 490 or 491; one of the following: 261, 265, 272, 273; two 300-400 literature courses; five of the following (three of which must be 300-400 level): 204, 205, 215, 218, 220, 224, 225, 231, 302, 303, 305, 306, 307, 315, 316, 317, 319, 320, 332, 334, 415, 486.
- **Corequisites:** Six semester hours in a foreign language or its equivalent.
- **Other requirements:** Two semesters in an editorial position on *The Stroud Courier* or *Calliope;* or a portfolio of published writing, or a portfolio of writing conducted for one or more agencies in the context of service learning or internship, or a combination of these options, as agreed to by the student, the department chair, and the student's adviser.
- A minimum of 18 credits in English (not including ENGL 103) must be earned at East Stroudsburg University. A minimum of 9 credits in English course work at the 300-400 level must be earned at East Stroudsburg University.
- Please see the university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
General Education Elective – Arts and Letters	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Fitness Elective	1
Subtotal	**16**

Spring

ENGL 163: Study of Literature	3
ENGL 203: Advanced Composition	3
General Education Elective – Arts and Letters	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Sophomore Year

Fall

ENGL 264: American Literature I	3
ENGL 2xx – Writing Course	9
General Education Elective – Arts & Letters (Foreign Language)	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Spring

ENGL 265: American Literature II	3
ENGL 3xx – Writing Course	3
General Education Elective – Arts & Letters (Foreign Language)	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3
Subtotal	**15**

Junior Year

Fall

ENGL 3xx – Writing Course	3
ENGL 260: English Literature I	3
ENGL 2xx – Writing Course	3
General Education Elective – Natural Science	3
General Education Elective – Social Science	3

Subtotal	**15**
Spring	
ENGL 3xx – Writing or Linguistics	3
ENGL 3xx – Literature Course	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall	
English Elective	3
ENGL 3xx – Writing Course	3
ENGL 3xx – Literature Course	3
Elective	3
Elective	3
Subtotal	**15**
Spring	
ENGL 490: Senior Seminar in Creative Writing	3
ENGL 486: Internship	3
Elective	3
Elective	3
Elective	1
Fitness Elective	1
Subtotal	**14**
Total Credits	**120**

Bachelor of Science in English - Secondary Education

40 semester hours

- **Required courses**: ENGL 163, 208, 231, 260, 264, 332 or 334, 360, 390, 412, and 466; one of ENGL 261 or 265; two of 356, 357, 358, 374, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 391, 392, 393, 395, 467 and ENGL 499
- **Required professional education courses:** PSED 150, 250, 406, 420, 421, 430, 431; REED 350; SPED 350
- **Other requirements:** One of CMST 111 or 253; one of THTR 100, 101, or 102.
- A minimum of 18 credits in English (beyond Composition) must be earned at ESU. A minimum of 9 credits in English coursework at the 300-400 level must be earned at ESU.
- **Competencies:**
  - MATH: As of Fall 2001, all education majors need to take two college-level Math classes
  - QPA: All students pursuing a Bachelor of Science Degree in English or post-baccalaureate certificate in English must maintain a minimum QPA of 2.8 in the major and grades of A, B, or C must be earned in all of the required English courses.
  - MEDIA: Students who begin their program as freshmen at ESU will be placed into a special section of ENGL 104. This course focuses on media literacy. To meet teacher guidelines, students who do not take ENGL 104 will be required to take CMST 126, Introduction to Mass Media
  - PORTFOLIO: All secondary majors enrolled after Fall 06 are required to participate in the secondary English portfolio process, which is fully explained in a separate letter.
  - OTHER: Admission to the Teacher Education Program and a 3.0 overall QPA are required.
  - Please see the university requirements in this catalog.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education.

ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall	
ENGL 104 English Composition for Secondary English and Middle Level Majors	3
PSED 150 Introduction to Teaching All Students	6
General Education Elective- Arts and Letters (CMST 111)	3
General Education Elective –Natural Science (Math)	3
Subtotal	**15**
Spring	
ENGL 163 Study of Literature	3
General Education Elective – Natural Science (Math)	3
General Education Elective – Natural Science	3
General Education Elective – Arts and Letters (American or English Literature I)	3
General Education Elective – Arts and Letters (THTR 100)	3
Subtotal	**15**

Sophomore Year

Fall	
ENGL 231 English Grammar	3
PSED 250 Psychology of Learners in Diverse Communities	3
General Education Elective – Arts & Letters (American or English Literature I)	3
General Education Elective – Social Science	3
General Education Elective – Social Science	3
Fitness Elective	1
Subtotal	**16**

Spring

PSED 350 Assessment of Student Learning and Behavior	3
ENGL 332 Linguistics (or ENGL 334 History of English Language in Fall ENGL 261/ENGL 265	3
English Literature II or American Literature II	3
ENGL 208 Writing About Young Adult Literature	3
General Education Elective- Social Science	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

REED 350 Teaching Reading to Learners in Diverse Communities	3
ENGL 390 Shakespeare	3
ENGL 377-389 Studies in Literary Movements	3
General Education Elective- Natural Science	3
General Education Elective- Social Science	3
Subtotal	**15**

Spring

ENGL 360 Approaches to World Literature	3
ENGL 412 Teaching of Writing in Secondary and Middle Schools	3
PSED 420 Seminar in Secondary Education I	3
General Education Elective- Arts and Letters (Foreign Lang/Philosophy	3
General Education Elective- Social Science	3
Subtotal	**15**

Senior Year

Fall

PSED 406 Teaching of English in Secondary Schools	3
PSED 421 Seminar in Secondary Education II	3
ENGL 377-389 Studies in Literary Movements	3
ENGL 466 Teaching Multicultural Literature	3
General Education Elective- Natural Science	3
Subtotal	**15**

Spring

PSED 430 Student Teaching in Middle School/ Junior High School	6
PSED 431 Student Teaching in Senior High School	6
ENGL 499 Student Teaching Internship	1
Subtotal	**13**
Total Credits	**120**

English Minor

18 semester hours

- Required courses: ENGL 162 or 163, one (1) 200 level Writing course, one (1) 200 level Literature course, three (3) courses at the 300 level or above.
- Nine (9) of the 18 credits for the minor must be taken at ESU.

Prerequisites for Literature Courses

- The last two digits of the course number indicate the classification of 100-300 level English courses, i.e.: writing 00-29, linguistics 30-49, literature 50-99.
- Lower Division: Enrollment in literature courses numbered 100 to 299 requires concurrent enrollment in or completion of ENGL 103 English Composition.
- Upper Division: Literature courses numbered 300 to 499 require the completion of ENGL 162 or 163 and two additional 100 to 299 numbered English courses. All 300 courses require 60 credit hours and/or one specified English course. All 400 courses require 90 credit hours and/or two specified English courses.

Faculty

Professors:

Lesliee Antonette (lantonette@esu.edu)

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Associate Professors:

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Kim McKay (kmckay@esu.edu)

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Assistant Professors:

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Course Descriptions

ENGL 090 Composition Skills (3)

This preparatory course is designed for students who placed into the course based on their writing and verbal SAT scores. Students required to take 090 may not enter English Composition 103 until they have passed Composition Skills 090. This course is offered each semester. Credits granted for the course are not included within the minimum 120 semester hours required for graduation.

ENGL 091 Composition Skills for Foreign Students (3)

This course, a special section of ENGL 090, offers international students the opportunity to improve their writing, reading, listening, and speaking skills (in that order).

ENGL 103 English Composition (3)

This course or its equivalent is required of all students. It entails the study and practice of expository writing and college-level research. The combination of writing and verbal SAT scores may require some students to pass English 090 before entering 103. Students may also demonstrate competency by taking the CLEP exam In English composition. Such examinations must be passed at the 50th percentile. AP test scores may also be considered, by arrangement of the Department chairperson. This course is offered each semester. Students must receive a minimum grade of "C" to fulfill the English Composition requirement.

ENGL 104 English Composition for Secondary English and Middle Level Education Majors (3)

Specifically designed for those preparing for a B.S in Secondary English or Middle Level Education, this course will provide students with experience in the formal styles of academic writing and research. They will be introduced to reading strategies that permit access to a wide range of print and non-print texts, such as video, internet, and print media that address America's most pressing social concerns and learn to analyze them critically. Through oral presentations, collaborative writing exercises, and formal research projects, students will gain experience in utilizing these media in the classroom.

ENGL 162 GE: Introduction to Literary Analysis and Interpretation (3)

Designed to acquaint the student with the basic skills of literary interpretation, this course includes readings in selected works of literature and examines such topics as explication and analysis of the genres of literature, plot, character, foreshadowing, atmosphere, symbolism, and imagery. The course is offered each semester. Pre-requisite(s): ENGL 103 or concurrent enrollment

ENGL 163 The Study of Literature (3)

Students will study fiction, poetry and drama from around the world and write a number of critical papers. Students will also learn to conduct critical research and will demonstrate familiarity with a wide variety of critical approaches. This course is for majors only. Enrollment in ENGL 163 requires the completion of or concurrent enrollment in ENGL 103.

ENGL 173-188 GE: Selected Readings (3)

These courses are designed to introduce the student to literary interpretation through readings in various interest areas. The following courses are offered as interest permits: Contact the department for details.

ENGL 173 GE: Literature of War

ENGL 174 GE: Literature and Religion

ENGL 175 GE: Biblical Literature

ENGL 177 GE: Environmental Literature

This introductory course focuses on how environment and setting functions in literature. Texts have been selected where environmental issues are central to the theme. Students will read all course texts and write about them in journal entries, formal papers, and final exams.

ENGL 178 GE: Horror and Fantasy

ENGL 180 GE: Literature and Science

ENGL 182 GE: Literature of Sport and Games

ENGL 183 GE: WS: Women in Literature

ENGL 188 GE: Mystery Fiction (3)

Mystery Fiction is a General Education literature course intended to introduce the student to the fundamental skills of literary interpretation. In this course we will read works from the genre known as mystery fiction and examine the history and development of the genre. Pre-requisite(s): ENGL 103 or concurrent enrollment

ENGL 190 GE: Multicultural American Literature (3)

Students will learn to analyze, interpret and write about the multiplicity of ethnic experiences that make up American cultural experiences. This work can address a variety of cultural groups and experiences not limited to African-American, Latino/a, European-American, or Asian-American. Prerequisite: completion or concurrent enrollment in ENGL 103.

ENGL 192 GE: Native American Literature (3)

Students will learn to analyze, interpret and write about works produced by native North American authors. The course will consider works from the historical period that begins with the U.S. Republic and continues to the present. It will include both original works and works in translation. Prerequisite: completion of or concurrent enrollment in ENGL 103.

ENGL 194 GE: African American Literature (3)

Students will read and write about the cultural and artistic forces that gave birth and shape to what has come to be called African American Literature. From the slave narratives and folktales of the 18th and 19th centuries to contemporary fiction and drama, these works make up a body of literature that is defined through race even as it transcends it. Prerequisite: completion of or concurrent enrollment in ENGL 103.

ENGL 196 GE: Italian American Literature (3)

Students will read and discuss texts relating to Italian American history, literature, and culture. The course will analyze and criticize the media stereotypes adhering to Italian Americans and seek to develop an understanding of their positive contribution to American life. Prerequisite: completion of or concurrent enrollment in ENGL 103

ENGL 203 GE: Advanced Composition (3)

This course is designed to give students further practice in expository writing to improve their skills. Students will explore a topic through short and long reading and writing assignments in a workshop environment. At least one course project will be a substantial academic research paper. Prerequisites: ENGL 103 with a minimum grade of C.

ENGL 204 Technical Writing (3)

This course acquaints students with the skills necessary for professional writing in such fields as engineering and the sciences. Students will learn to write effective proposals, operations manuals and a variety of technical reports. Prerequisite: ENGL 103.

ENGL 205 Workplace Writing (3)

This course teaches students the skills necessary for writing in workplace contexts such as businesses and non-profit organizations. Students will learn to write and present a wide range of workplace texts, including resumes, application letters, proposals, reports, e-

mails, memos, and letters. This course does not count for GE credit. Prerequisite: ENGL 103.

ENGL 208 Writing About Young Adult Literature (3)

The primary focus of this course is critical reading and writing in relation to young adult literature. Students will read a wide variety of genres and write in a variety of modes (expressive, analytical, expository). The purposes of this course are (1) to strengthen students' writing skills for various purposes and audiences, and (2) to raise awareness about the literary and interdisciplinary merits of young adult literature and its relevance in terms of the lives of young adults and the culture within which they live. Prerequisite: ENGL 103 or 104.

ENGL 215 News Reporting and Writing (3)

This course is an introduction to news reporting and writing, including practice in all activities relevant to daily newspaper work. Assignments will emphasize the techniques of reporting, interviewing, copy editing, fact checking, proofreading, and editorial and feature writing. There will be some discussion of layout and typography as well. Prerequisite: ENGL 103.

ENGL 218 Sports Writing (3)

The course will deal with the techniques of daily reporting and feature writing about sports events, personalities, and issues. Emphasis will be given to newspaper and magazine writing, with some photojournalism required. Editorial skills will also be taught so that students can take their manuscript copy through the editing process to the printed page. Prerequisite: ENGL 215.

ENGL 220 Script Writing (3)

Students will learn the craft of script writing and have an opportunity to apply the techniques to film, television, and theatre. Students will prepare short scripts and a major work, ranging from a scenario, to a television play, to a one-act play.

ENGL 224 Writing Children's Fiction (3)

This writing workshop will focus on all aspects of writing for children and young adults. This is an introductory level course aimed specifically at writing short & full length children's books. Prerequisites: ENGL 103.

ENGL 225 GE: Introduction to Creative Writing (3)

This course is a workshop in writing poetry, fiction, and drama. It is designed to introduce students to the mechanics of each genre and to the workshop format. Prerequisites: ENGL 103, 162 or 163.

ENGL 231 English Grammar (3)

This course is required for those seeking secondary certification in English. It consists of a review of the basic precepts of traditional grammar and an introduction to new grammars.

ENGL 260 GE: English Literature I (3)

This course is an introductory survey of English literature to 1800 designed to acquaint the student with major literary figures, works and trends. Offered in the fall. Prerequisite: Concurrent enrollment in or completion of ENGL 162 or 163.

ENGL 261 GE: English Literature II (3)

This course is an introductory survey of English literature from 1800 to the present, designed to acquaint the student with major literary figures, works, and trends. Offered in the spring. Prerequisite: Concurrent enrollment in or completion of ENGL 162 or 163.

ENGL 264 GE: American Literature I (3)

This course is an introductory survey of American literature to the Civil War, designed to acquaint the student with major literary figures, works and trends. Offered in the fall. Prerequisite: Concurrent enrollment in or completion of ENGL 162 or 163.

ENGL 265 GE: American Literature II (3)

This course is an introductory survey of American literature from the Civil War to the present, designed to acquaint the student with major literary figures, works, and trends. Offered in the spring. Prerequisite: Concurrent enrollment in or completion of ENGL 162 or 163.

ENGL 272 GE: World Literature I (3)

This survey course introduces students to literature and literary traditions of selected countries and cultures from ancient and classical periods through the Renaissance. Prerequisite: Concurrent enrollment in or completion of ENGL 103.

ENGL 273 GE: World Literature II (3)

The readings in this survey course cover literature and literary traditions of selected countries and cultures from the Renaissance through to the present. Students can select this course without taking World Literature I. Prerequisite: Concurrent enrollment in or completion of ENGL 103.

ENGL 275-284 GE: Studies in Literary Genre (3)

These courses emphasize the characteristics and techniques differentiating the literary genres. Attention is also given to the historical development of the genre. Prerequisites: ENGL 103, 162 or 163. The following courses are offered as interest permits:

ENGL 275 GE: Comedy

ENGL 276 GE: The Epic

ENGL 277 GE: The Lyric

ENGL 279 GE: The Romance

ENGL 280 GE: Satire and Irony

ENGL 282 GE: Drama

ENGL 284 GE: Short Story (3)

This course emphasizes the characteristics and techniques differentiating the literary genres. Attention is given to the historical development of the genre.

Prerequiisites: ENGL 103, ENGL 162, ENGL 163.

ENGL 290 Special Topics: Writing Studio Tutoring Practicum (3)

These courses are designed to supplement hands-on tutoring with academic course work to strengthen the Writing Studio tutors' skills when working with writers. Students would attend workshops, complete weekly assignments, participate in observations, and compose a semester project. Students must be employed by the Writing Studio in Kemp Library in order to enroll in this course. This course would be taken once per tutor, and it is offered spring semesters.

ENGL 302 Creative Writing-Fiction (3)

This course is a workshop in the writing of prose fiction, with emphasis on the techniques of the short story. Supplementary readings may be assigned by the instructor. Prerequisites: ENGL 162 or 163; two English courses other than ENGL 090 or ENGL 103.

ENGL 303 Creative Writing-Poetry (3)

This course is a workshop in the writing of poetry. Students are expected to achieve competence in a variety of forms. Supplementary readings may be assigned by the instructor. Prerequisites: ENGL 162 or 163; two English courses other than ENGL 090 or ENGL 103.

ENGL 305 Professional Writing: Public Relations (3)

This course is a workshop in the writing forms and styles, from basic press releases to multi-media public relations campaigns, used by communications professionals; students will also explore topics in media relations, business ethics, and non-profit/corporate public relations case studies. Prerequisite: ENGL 205 or 215.

ENGL 306 Professional Writing: Advertising (3)

The course is a workshop in advertising copywriting. Students will examine current advertisements and learn to write print ad copy and broadcast scripts. They will explore the relationship between copy and images and will consider some of the ethical challenges, which can face a copywriter. Prerequisite: ENGL 205 or 215.

ENGL 307 Professional Writing: Website Writing and Design (3)

This course is a workshop in writing for the World Wide Web. Students will learn how to plan, write, design, evaluate, and test web pages and sites. Prerequisite: One of the following: ENGL 203, 204, 205, or 215.

ENGL 315 Multimedia Journalism (3)

This intensive skills course will introduce professional writing majors and qualified undergraduates to the practices of newswriting, editing, and reporting for today's converged media landscape. Fundamental to the instruction will be learning to manage effective multimedia news coverage and gaining practice in writing, assigning, and adapting stories for different media types. Prerequisites: ENGL 215 or CMST 229.

ENGL 316 Professional Writing: Magazine Journalism (3)

This advanced course focuses on all aspects of magazine journalism. Students will analyze a variety of current consumer and trade magazines. They will research and write articles suitable for broad-based and special- interest publications and discuss layout and editing techniques. Prerequisite: ENGL 215.

ENGL 317 Reviewing the Arts for Newspapers and Magazines (3)

The course stresses journalistic coverage of all the major art forms: literature, drama, film, plastic arts, music, dance, and television. Students will learn to write intelligent, informative reviews for the popular media; they will also do one or two feature articles or interviews about individual artists or current artistic trends. Prerequisite: ENGL 215.

ENGL 319 Writing Creative Non-Fiction (3)

This course explores the techniques and history of the New Journalism as practiced by Tom Wolfe, Annie Dillard, and others. Students will read and write nonfiction that makes use of on-site reporting, in-depth interviews, and literary feature writing style. Prerequisites: ENGL 215; 316 or 317.

ENGL 320 Electronic Creative Writing (3)

This advanced class entails the study and pracitce of creative writing in online environment. Students will read, study, and create multimodal forms of poems, stories, creative non-fiction, or other imaginative art forms that thoughtfully employ online text, hypertext, graphics, audio, and/or video. A critical history, global context, and ethics of electronic creative writing will also be presented. Pre-requisite(s): ENGL 162 or 163; ENGL 225 or any 300-level creative writing class.

ENGL 332 Linguistics (3)

This course is an introductory study of human language theory. Given evidence from various languages, students will formulate explicit generalizations, which will give them insight into linguistic theory. Investigation will then turn to social variations within languages, changes that occur in languages over time, the use of language to communicate, and language acquisition. Prerequisites: ENGL 162 or 163; two courses other than ENGL 090 or 103.

ENGL 334 History of the English Language (3)

English 334 is designed to introduce students to the major theories about the origins, the social and historical contexts, and the development of English as a distinct language. It is an introductory study of selected topics in English semantics, phonology, morphology, and syntax from the pre-history of English to the present. Prerequisites: ENGL 162 or 163; two courses other than 090 or 103.

ENGL 340 Studies in Writing Tutoring Practices (3)

This course will provide students with academic coursework in tutoring pedagogy and composition theory, as well as hands-on experience working with other student writers in individual and small group tutoring. Students will attend workshops, complete weekly assignments, participate in observations, and compose a semester project that demonstrates their knowledge of peer tutoring in writing. Students must complete an interview with the instructor in order to enroll in this course. Prerequisites: ENGL 162 or ENGL 163, and instructor permission.

ENGL 356 American Poetry (3)

This course is a study of important individual poets and poetic movements in the history of American poetry. Selections range from Puritan to contemporary poetry. Prerequisites: ENGL 162; two courses other than ENGL 090 or 103.

ENGL 357 The American Novel (3)

This course is a study of representative examples of the American novel and its themes and forms from the early nineteenth century to the present. Prerequisites: ENGL 162 or 163; two courses other than ENGL 090 or 103.

ENGL 358 The British Novel (3)

The British Novel is a survey of the development of the novel in Britain. It focuses on the "great tradition" of British novelists and also includes novels by other masters of the form. Prerequisites: ENGL 162; two courses other than ENGL 090 and 103.

ENGL 360 Approaches to World Literature (3)

Students will develop the necessary skills to respond to and understand literary texts that come from cultures outside the British and American traditions. Students will read a wide range of representative texts from various European and non-Western cultures. This course will explore a variety of common themes found in these texts and compare these themes across cultures. Prerequisites: ENGL 163; two additional English courses other than 090 or 103.

ENGL 374 Literary Criticism and Theory (3)

This course is a survey of the various approaches to the discussion of literature from Classical times to the present. Prerequisites: ENGL 162; two courses other than ENGL 090 and 103.

ENGL 377-389 Studies in Literary Movements (3)

These courses are intensive studies of the dominant literary spirit as reflected in both major and minor writers of particular eras in the American and British tradition. Prerequisites: ENGL 162 or 163; two courses other than ENGL 090 or 103. The following courses are offered as interest permits:

ENGL 377 Medieval European Literature

ENGL 378 Old and Middle English Literature

ENGL 379 British Literature of the Renaissance

ENGL 380 Seventeenth-Century British Literature

ENGL 381 Eighteenth-Century British Literature

ENGL 382 British Romanticism

ENGL 383 Victorian Literature

ENGL 384 Modern British Literature

ENGL 385 American Romanticism

ENGL 386 American Naturalism

ENGL 387 Modern American Literature

ENGL 388 Contemporary Literature

ENGL 389 Postcolonial Literature

ENGL 390 Shakespeare (3)

This course offers intensive study of Shakespeare's plays and the social and political milieu of the Elizabethan period. Prerequisites: ENGL 162; two courses other than ENGL 090 or 103.

ENGL 391 Geoffrey Chaucer (3)

This course offers intensive study of the poetry of Geoffrey Chaucer and the social and political milieu of Chaucer's England. Prerequisites: ENGL 162; two courses other than ENGL 090 or 103.

ENGL 392 John Milton (3)

This course will consider Milton's major works within the literary, religious, political and social cross-currents of the 17th Century. Prerequisites: ENGL 162; two courses other than ENGL 090 or 103.

ENGL 393 Major Writers (3)

This course will offer intensive study of a writer about whom a significant body of critical texts exists. A study of at least one writer chosen by the department will be offered each year. Students may take this course for credit more than once if they wish to study more than one major writer. Students may not improve a grade by retaking the course when a different major writer is studied. Prerequisites: ENGL 162 or 163; two courses other than ENGL 090 or 103.

ENGL 395 The Graphic Novel (3)

This course is a study of the graphic-novel genre, covering its literary and artistic aspects. Students read a wide variety of literary graphic novels, write analytical essays, and learn theory and practice of sequential-art narratives. Prerequisite: One of the following: ENGL 162, 163; or other introductory literature course at instructor's discretion.

ENGL 412 Teaching of Writing in the Secondary and Middle Schools (3)

This course will briefly survey the history of the teaching of writing in American secondary and middle schools, intensively review writing process theory and research of the past two decades, and critically consider the implications of writing process theory and research for classroom practice. Prerequisites: Completion of 90 credits; successful completion of English Electronic Portfolio Junior Check Point; consent of instructor.

ENGL 415 Computers and Writing (3)

Computers and Writing will examine the impact that the new forms of electronic writing have had and will have on conventional print-based writing. We will analyze various forms of electronic writing such as the World Wide Web, e-mail, listservs, and newsgroups, MOOs. Prerequisites: ENGL 103; two 300- or 400- level English courses.

ENGL 466 Teaching Multicultural Literature (3)

The English/Education major will utilize a seminar setting to focus on a detailed consideration of current multicultural subject matter, theory, and strategy that may be effective in the multicultural classroom. Prerequisites: ENGL 162 or ENGL 163; two 300-or 400-level English courses; successful completion of English Electronic Portfolio Junior Check Point; consent of instructor.

ENGL 467 Literature and Film (3)

This course is designed to enhance critical analysis of popular classical texts. This course will examine specific literature and the film versions of these texts throughout the years. Students will extend their knowledge of the literature by examining how the essence of the text transfers to various film versions of the original literature. Students will produce personal, comparative, and research-based writings in this course. Prerequisites: ENGL 162 163, or other introductory literature course at instructor's discretion.

ENGL 485 Independent Study (Semester hours arranged)

Directed research and study on an individual basis. Open to advanced students (90 credits) on a limited basis upon approval of the department or the instructor and after the completion of twelve semester hours in the subject. Independent studies cannot be given in areas in which courses are being taught. A student entering upon independent study must complete a minimum of five (5) hours of individual conference time with the sponsoring professor for each credit undertaken. The student must demonstrate competencies appropriate to the level of the course. The standards shall include performance in the subject, explication of that work by written or oral reports, and evidence of willingness to meet the commitments of the discipline.

ENGL 486 Internship in Written Expression (Semester hours arranged)

This is an opportunity for a limited number of advanced students to develop their skills by applying them in a professional situation and thus receive both an apprenticeship experience and college credit. Prerequisites: Department approval; completion of 90 credits.

ENGL 490 Senior Seminar in Creative Writing (3)

The course is the culminating experience for Writing Track Majors who are interested in pursuing creative writing. They will focus on creative writing being published in the current marketplace. Individually, they will conceive, write, and revise a major creative writing project. Prerequisites: ENGL 203 and at least three 200-300 level required courses in the writing track.

ENGL 491 Senior Seminar in Professional Writing (3)

The course provides a culminating experience for Professional and Media Writing Track majors and for Writing Track majors interested in pursuing professional writing. Students may focus on journalism, technical and scientific writing, corporate communication, advertising and public relations writing, or they may blend interests. They will individually, conceive, write, and revise a major professional writing project of their own. Prerequisites: ENGL 203 and at least three 200-300 level required courses in the writing track.

ENGL 495 Senior Seminar (3)

This is a culminating course in which students, making use of the ability and knowledge they have acquired, examine intensively a figure, movement, or era. Required of liberal arts English majors. Prerequisites: Completion of 90 credits; consent of instructor.

ENGL 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in English during the student teaching experience. Prerequisites: Qualification to Student Teach, concurrent registration in PSED 430 or 431.

Exercise Science

College of Health Sciences

The Faculty of Human Performance
Koehler Fieldhouse
570-422-3302.....www.esu.edu/exsc

What is Exercise Science?
Exercise Science is the study of muscular activity and adaptations of the human body to this activity. Several sub-disciplines are involved in Exercise Science including Exercise Physiology, Biomechanics and Sports Nutrition. In the Department of Exercise Science, undergraduate students experience these sub-disciplines within the excellent facilities at East Stroudsburg University.

About the Program
East Stroudsburg University has a distinguished history in Exercise Science. The Department of Exercise Science offers undergraduate and graduate degree programs accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and has received endorsement by both the American College of Sports Medicine (ACSM) and the National Strength and Conditioning Association (NSCA).

The mission of the Department of Exercise Science is to provide students a vehicle within an intellectual environment that fosters their knowledge in the areas of Exercise Science. Through the Exercise Science curriculum, laboratory experiences, applied research, internships, and student-faculty interactions, Exercise Science graduates will have developed knowledge and skills essential for entry-level exercise science professionals or a continuation to a graduate level education.

About the Department of Exercise Science
The Department of Exercise Science offers programs of study leading to the Bachelor of Science in Exercise Science with a concentration in Exercise Physiology or Sport and Exercise Conditioning. The Exercise Physiology concentration prepares students for more advanced studies in Exercise Science. The concentration in Sport and Exercise Conditioning prepares students for work in the health and fitness professions.

Graduate programs are also offered with the Master of Science in Clinical Exercise Physiology and the Master of Science in Exercise Science.

The degree programs in Exercise Science promote a multidisciplinary approach to the study of exercise science and prepare the student for careers in health and fitness-related fields in both public and private industries.

Most of our faculty hold doctoral degrees (Ph.D.) and specialize in Sport and Exercise Physiology, Biomechanics, Clinical Exercise Physiology, and/or Kinesiology. They all undertake research in their respective areas of expertise and all work closely with the students.

Many of our Exercise Science graduates pursue master's degrees in Exercise Science or Clinical Exercise Physiology.

Other graduates have even pursued and completed doctoral programs at other institutions to pursue a teaching career at a university.

Are you interested in...
- The science behind sport and exercise performance
- Providing health care through exercise
- Pre-health care professional preparation - PT, PA, OT
- Working in the health and fitness industry
- Research in sport and health

Choose Exercise Science at ESU
- CAAHEP nationally accredited program
- Small class sizes
- Qualified, experienced faculty
- 20+ classes with laboratory hands-on experience
- Practical internships
- Opportunity to obtain three professional certifications

Is exercise science a career path for me?

Career Potential
- Health Fitness Specialist
- Certified Strength and Conditioning Specialist
- Pre-PT, Pre-OT, Pre-PA, Pre-M.S.
- Personal trainer

Career Settings
- Corporate health and fitness centers
- Hospital or community wellness
- (or health and fitness) centers
- Commercial health and fitness centers
- Sports medicine and rehabilitation clinics
- Physician or chiropractic fitness centers
- Nursing homes, senior citizen centers
- Teaching in high schools, colleges and universities
- Research laboratories

More detailed career information is available from the department.

Program Objectives
1. To provide students with a vehicle within an intellectual environment that fosters their knowledge in the areas of Exercise Science.
2. To ensure that Exercise Science graduates will have developed knowledge and skills essential for entry-level exercise science professionals or a continuation to graduate level education.
3. To prepare undergraduate Exercise Science students for advanced professional certifications/licenses from professional organizations like the American College of Sports Medicine (ACSM) or the National Strength and Conditioning Association (NSCA).

In the Bachelor of Science Exercise Science program, the student covers all aspects of Exercise Science taught through classroom and laboratory experiences.

Students who enter the Exercise Science major begin their studies by taking the Exercise Science core classes.

As juniors and seniors, Exercise Science students choose a set of corequisite courses to focus their studies in one of two concentrations:
- Exercise Physiology– This concentration prepares the student for more advanced studies in Exercise Science.
- Sport and Exercise Conditioning– This concentration prepares the student for work in the health and fitness professions.

Opportunities to gain experience in a work environment exist through internships offered as part of the major in Exercise Science. In

addition, students are encouraged to participate in campus organizations emphasizing practical experience.

Certification opportunities are also available from nationally recognized organizations including the American College of Sports Medicine, the American Heart Association and the National Strength and Conditioning Association.

National Accreditation

The Commission on Accreditation of Allied Health Programs (CAAHEP) certifies that the Exercise Science Program at ESU meets all of the educational requirements set forth for accreditation.

The American College of Sports Medicine endorses the Exercise Professional program at ESU as matching the goals of the Health/Fitness Instructor level of certification.

The National Strength and Conditioning Association recognizes the Exercise Science program at ESU as matching the needs for professionals interested in Strength and Conditioning.

Internships

Exercise Science students undertake an internship during their time at East Stroudsburg University. Students may choose from more than 80 approved internship sites that provide exceptional opportunities for the student to apply their knowledge in a professional setting.

The internships also provide an opportunity for Exercise Science students to experience the careers that are available to them when they graduate.

The undergraduate internship experience allows the student to apply the skills and knowledge accrued during their formal Exercise Science education in an environment that requires the sustained use of professional practices.

Typical internship sites chosen by Exercise Science undergraduates include:

- Velocity Sports Performance
- Pocono Medical Center
- Elevations Fitness Club
- St. Luke's Health Center
- Pocono Wellness

Facilities

The Department of Exercise Science at ESU supports excellent physiology and biomechanics laboratories where exercise testing and evaluation take place. Undergraduate and graduate students experience these laboratories and also have the opportunity to work in the new, state-of-the-art University Recreation Center.

Most of the academic work and laboratory experiences at ESU are taught in the Human Performance and Biomechanics Laboratories.

Bachelor of Science in Exercise Science - Concentration: Exercise Physiology

Program Features:

60 Semester Hours

- **Required major courses:** EXSC 100, 120, 121, 122, 202, 203, 310, 311, 322, 330, 402, 410, 431, 441, 445, 447, 451, 452, 453, 454, 455, 461, 462, and 3 credits from 485 or 486.
- **Corequisite courses:** BIOL 111, 112, CHEM 111, CPSC 100, MATH 110, ATEP 230.
- **Minimum standard:** A minimum grade of a "C" in 400 level major courses and a quality point average of 2.5 in major courses required for graduation.
- *Please see the university requirements in the Undergraduate Catalog.*

Career Opportunities:

Upon successful completion, this concentration affords the student the opportunity to pursue a variety of other educational and employment opportunities within and even outside of the traditional Exercise Science curriculum.

This concentration serves as a springboard for more advanced studies in Exercise Science, Clinical Exercise Physiology or a host of Exercise therapy-related schools such as Physical Therapy.

Therefore, the Exercise Physiology concentration serves as a preparatory degree for further graduate study by providing the opportunity to complete many of the prerequisites for graduate study.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

EXSC 100: Introduction to Exercise Science	3
EXSC 120: Physical Conditioning	1
BIOL 111 GE: Human Anatomy and Physiology I	4
ENGL 103: English Composition	3
General Education Elective	3
Subtotal	**14**

Spring

EXSC 202: Kinesiology - Applied Anatomy	3
BIOL 112 GE: Human Anatomy and Physiology II	4
CPSC 100 GE: Personal Computers	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Sophomore Year

Fall

EXSC 122: Strength Training	1
EXSC 203: Kinesiology – Mechanical Analysis	3
EXSC 310: Exercise Physiology I	3
CHEM 111 GE: Chemical Basis of Matter	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

EXSC 311: Exercise Physiology II	3
EXSC 322: Strength and Conditioning Theory	3
ATEP 230: Prevention and Management of Sport and Fitness Injuries	3
MATH 110 GE: General Statistics	3

General Education Elective	3
Subtotal	**15**

Junior Year

Fall

EXSC 121: Aerobic Fitness Activities	1
EXSC 330: Health-Related Fitness Assessment and Exercise Programming	3
EXSC 451: Aerobic Fitness Workshop	2
EXSC 453: Reducing Coronary Heart Disease Workshop	2
General Education Elective	3
General Education Elective	3
Subtotal	**14**

Spring

EXSC 447: Sport Nutrition	3
EXSC 441: Environmental Exercise Physiology	3
EXSC 452: Exercise and Weight Control Workshop	2
EXSC 454: Anaerobic Training Workshop	2
Elective	3
General Education Elective	3
Subtotal	**16**

Senior Year

Fall

EXSC 402: Psychology of Sport and Exercise	3
EXSC 431: Analysis of Performance Skills	3
EXSC 461: Experimental Exercise Physiology	3
Elective	3
General Education Elective	3
Subtotal	**15**

Spring

EXSC 410: Organization and Administration of Exercise and Wellness Programs	3
EXSC 445: Seminar in Adult Fitness Programs	3
EXSC 455: Health/Fitness Instructor Workshop	1
EXSC 462: Seminar in Exercise Physiology	3
EXSC 485/486 Research Project or Internship	3
Subtotal	**14**
Total Credits	**120**

For more information, contact the department by calling 570-422-3302 or visit **www.esu.edu/exsc**

Bachelor of Science in Exercise Science - Concentration: Sport and Exercise Conditioning

Program Features:

54 semester hours

- **Required major courses:** EXSC 100, 120, 121, 122, 202, 203, 230, 310, 311, 322, 330, 342, 402, 410, 431, 445, 447, 451, 452, 453, 454, 455, 456, 486.
- **Corequisite courses:** BIOL 111, 112, CPSC 100, ATEP 230.
- **Minimum standard:** A minimum grade of a "C" in 400 level major courses and a quality point average of 2.5 in major courses required for graduation.
- Please see the university requirements in the Undergraduate Catalog.

Career Opportunities:
Upon successful completion, this concentration affords the student the opportunity to gain employment in the broad health and fitness field among the commercial or public sectors. Employment may take place in a commercial health and fitness facility, a non-profit facility (i.e., YMCA), or in a hospital-based program and/or facility.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

EXSC 100: Introduction to Exercise Science	3
EXSC 120: Physical Conditioning I	1
BIOL 111 GE: Human Anatomy and Physiology	4
ENGL 103: English Composition	3
General Education Elective	3
Subtotal	**14**

Spring

EXSC 202: Kinesiology - Applied Anatomy	3
BIOL 112 GE: Human Anatomy and Physiology II	4
CPSC 100 GE: Personal Computers	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Sophomore Year

Fall

EXSC 122: Strength Training	1
EXSC 203: Kinesiology - Mechanical Analysis	3
EXSC 310: Exercise Physiology I	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

EXSC 311: Exercise Physiology II	3

EXSC 322: Strength/Conditioning Theory	3
ATEP 230:Prevention and Management of Sport and Fitness Injuries	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

EXSC 121: Aerobic Fitness Activities	1
EXSC 330: Health-Related Fitness Assessment and Exercise Programming	1
EXSC 342: Power Training for Sport Performance	3
EXSC 451: Aerobic Fitness Workshop	2
EXSC 453: CHD Workshop	2
General Education Elective	3
General Education Elective	3
EXSC 230: Personal Training Workshop	1
Subtotal	**16**

Spring

EXSC 447: Sport Nutrition	3
EXSC 452: Exercise and Weight Control Workshop	2
EXSC 454: Anaerobic Training Workshop	2
Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Senior Year

Fall

EXSC 402: Psychology of Sports and Exercise	3
EXSC 431: Analysis of Performance Skills	3
General Education Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

EXSC 410: Organization and Administration of Exercise and Wellness Programs	3
EXSC 445: Seminar in Adult Fitness	3
EXSC 455: Health/Fitness Instructor Workshop	1
EXSC 456: CSCS Workshop	1
EXSC 486: Internship	3
Elective	1
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3302 or visit **www.esu.edu/exsc**

Human Performance Laboratory

Students experience physiological equipment for testing athletes and patients alike within the Human Performance Laboratory. It is well equipped with treadmills, cycle ergometers, blood and gas analyzers, body composition instruments, electrocardiographs, spirometers, pulse oximeters and stress test systems.

Biomechanics Laboratory

Students experience equipment relating to the mechanics of human movement within the Biomechanics Laboratory. This laboratory contains infrared timing devices, video cameras, force-platforms, two- and three-dimensional motion analysis systems, and electromyography systems.

Research

Student-led research is very important to the Department of Exercise Science at ESU. Both undergraduate and graduate students are supported by the faculty in their endeavors to produce research theses and dissertations. Many of these research projects are presented at regional and national meetings, as well as published in peer-reviewed journals.

Information about many of the undergraduate dissertations and master's theses that have been produced by Exercise Science students is available online at www.esu.edu/exsc. A list of published research and professional presentations involving members of the Exercise Science faculty follows the dissertation and theses information.

Student Organizations

The Exercise Science Club was established for undergraduate Exercise Science majors. The purpose of the club is to expand the student's knowledge of current exercise-related topics, to enhance the awareness of future career options, and to collaborate as a group participating in activities to develop personal and social leadership skills.

The club meets every two weeks. At the meetings, upcoming events are discussed such as conferences and campus activities. Certifications relative to Exercise Science that are being offered at ESU are also discussed and members are notified of any job offerings either on campus or close by that would allow them to gain experience in the field.

Each year the Exercise Science Club will:

- Participate in the 5k holiday run hosted by Phi Epsilon Kappa
- Participate and raise money for the March of Dimes
- Help with Fitness Assessment Day at the ESU Recreation Center
- Have representatives from different companies come in to discuss their careers individually
- Attend the Exercise Science Career Fair on campus
- Plan events as a club (canoeing, skiing, snow tubing, hiking, etc.)
- Attend the MARC-ACSM conference
- Host CPR certification (if required)
- Participate in the certifications for group fitness or personal training offered at the ESU Recreation Center through accredited associations.

Faculty

Professors:

Donald Cummings (dcummings@po-box.esu.edu)

Shala Davis, Chair (sdavis@po-box.esu.edu)

Gregory Dwyer (gdwyer@po-box.esu.edu)

Associate Professor:
Gavin Moir (gmoir@po-box.esu.edu)
Chad Witmer (cwitmer@po-box.esu.edu)
Assistant Professors:
Emily Sauers (esauers@po-box.esu.edu)

Course Descriptions

EXSC 100 Introduction to Exercise Science (3)

This coarse will cover the history and development of the field of Exercise Science. Professional opportunities and the role of credentialing will be presented. Appropriate literature will be introduced. Pre-requisite(s): None

EXSC 120 Physical Conditioning (1)

This course provides for development of programs of exercise and activity and individual assessment of status, needs, and goals and is designed to enable each individual to determine realistic goals for his/her development and the use of activity throughout his/her life.

EXSC 121 Aerobic Fitness Activities (1)

This course is designed to introduce the student to the various aerobic fitness activities for adult populations. Techniques of fitness assessment, aerobic dance, jogging and aquacizing activities will be emphasized.

EXSC 122 Strength Training (1)

This course is designed to give the student a broad background in the area of strength training. Various strength training programs, techniques, and trends will be examined. Students will have the opportunity to set up and become involved in various strength-training methods. Recommended prerequisite: EXSC 120.

EXSC 202 Kinesiology - Applied Anatomy (3)

Upon completion of this course, a student should be able to identify the structural characteristics, movements, and muscles acting as the major joints of the body. The student will be able to select movements or exercises which utilize specific muscle groups and analyze the joint actions, muscle actions, and mechanical principles which apply to the performance of a specific movement.

EXSC 203 Kinesiology - Mechanical Analysis (3)

This course is designed to enhance the student's understanding of the fundamental laws of physics as they apply to human motion. Emphasis is placed on sport skill analysis. The student is prepared to identify the various phases of motion and explain the mechanical significance of each in producing the desired outcome.

EXSC 230 Personal Training Workshop (1)

This workshop will provide structured experiences through instruction in the specific theoretical and practical concepts of personal training as they relate to competencies established by the National Strength and Conditioning Association and the American College of Sports Medicine. The workshop is designed to assist the student in preparation for either the NSCA Certified Personal Trainer exam or the ACSM Certified Personal Trainer exam. Prerequisite: EXSC 202 or 203.

EXSC 286 Early Internship (1-3)

This experience enables a student to explore the role of a professional in a sport fitness or rehabilitation setting under the close supervision of a work-site supervisor. Prerequisites: 30 semester hours; 2.0 QPA; department approval.

EXSC 302 Psychosocial Aspects of Activity (3)

This course analyzes movement activities as psychosocial phenomena, including consideration of the symbolic and cultural nature of movement forms within a framework of human personality, motivation, and social values and organization. Prerequisite: EXSC 100.

EXSC 310 Exercise Physiology I (3)

This course studies human responses and adaptations to exercise of varying levels of stress and intensity. Concepts relating to neuromuscular, metabolic, circulatory, and respiratory physiology are treated in both lecture and laboratory experiences which include both theoretical and practical applications to exercise and training principles. Developmental considerations will be addressed as well as health-related physical fitness. Prerequisite: EXSC 100.

EXSC 311 Exercise Physiology II (3)

This course provides advanced applied biological treatment of adaptations necessary to sustain and/or develop exercise tolerance. Included in this course are principles and findings related to energy metabolism. Laboratory experiences illustrate theoretical material. This course is required for all Exercise Science majors. Prerequisites: EXSC 100, 310; Recommended: BIOL 111, 112.

EXSC 322 Strength and Conditioning Theory (3)

This course is designed to provide the student with an understanding of basic conditioning principles and how to apply them to various groups or individuals. Prerequisites: EXSC 100, 310, and advanced standing of 90 credits.

EXSC 327 Stress Management in Exercise and Sport (2)

This course concerns the occurrence of stress in relation to exercise and sport settings, the potential for movement forms to serve as stress reducers, and other factors involved in stress and stress management. In laboratory experiences attention will be given to learning relaxation skills and leading others in relaxation and other stress reduction activities. Prerequisites: EXSC 302 or advanced standing with permission of instructor.

EXSC 330 Health-Related Fitness Assessment and Exercise Programming (3)

This course provides experience in health-related physical fitness assessment and exercise programming for varied populations. The students will complete health-related physical fitness assessments and exercise programming under the direct supervision of the Exercise Science faculty. All students are required to have or obtain CPR certification and Professional Liability Insurance. Prerequisites: EXSC 310 and 311.

EXSC 342 Power Training for Sport Performance (1)

This course is designed to meet specific competencies needed for students interested in pursuing certification as a strength and conditioning specialist. This course will provide the student with the abilities to employ effective power training methods for optimal sport-specific athletic performance. Training methods that develop speed and power will be emphasized, such as plyometrics, medicine ball training and Olympic Weightlifting. Prerequisites: EXSC 122, 202, or 203 or permission of the instructor.

EXSC 402 Psychology of Sport and Exercise (3)

This course provides a broad overview for understanding the behavior of individuals in sport and exercise and focuses specific attention on the major sport and exercise concerns related to a psychological perspective. Content areas include personality and motivation factors, performance in groups, enhancing sport performance, and the psychological effects of participation in sport and exercise. Prerequisites: SMGT 201, 302, or two psychology courses; for EXSC students advanced standing of 75 credits.

EXSC 410 Organization and Administration of Exercise and Wellness Programs (3)

This course presents an overview of organizational and administrative issues relative to the planning, design, and management of health and wellness programs. Opportunities will be provided to observe and evaluate current wellness programs and facilities. Prerequisites: EXSC 310 and 311.

EXSC 431 Analysis of Performance Skills (3)

Upon completion of this course the student will be able to quantify and analyze human motions utilizing modern techniques of analysis including cinematography, still or sequence photography, video analysis, electrocardiography, and other selected laboratory and field techniques. Prerequisites: EXSC 100, 202, and 203.

EXSC 441 Environmental Exercise Physiology (3)

This course includes the study of the physiological responses of the human body to maximal and submaximal exercise in various environmental conditions including heat, cold, varying humidity, air pollution, altitude (hypobaria), and hyperbaria. Focus will be on the general and specific mechanisms of adjustment of circulation, respiration, fluid regulation, and metabolism. Both theoretical and laboratory experiences will be provided. Prerequisites: EXSC 310 and 311.

EXSC 445 Seminar in Adult Fitness Programs (3)

This course is designed to provide a cohesive overview of the entire field of adult fitness. The scientific basis of physiological changes in the adult population with their implications in recommending exercise and associated behavior modification are emphasized. Development, organization, and administration of adult fitness programs in varying environments are explored along with possible on-site visits. Prerequisites: EXSC 310 and 311.

EXSC 447 Sport Nutrition (3)

This course is designed for students in exercise science or other students with an interest in the role of nutrition in supplying energy for various forms of physical activity. Topics include: physiological role of macronutrients in aerobic and anaerobic energy supply, micronutrients, fluid intake, commercial supplements, body composition, and disordered eating problems of athletes. Prerequisites: EXSC 100 and 310.

EXSC 451 Aerobic Fitness Workshop (2)

This workshop provides a theoretical and practical framework for measurement and evaluation of aerobic fitness across the lifespan. Field tests that can be administered by exercise professionals are practiced, analyzed, discussed, and validated by laboratory demonstration and participation. Concepts and application of aerobic fitness principles are viewed in light of present day and future needs. Prerequisites: EXSC 100, 310, and/or advanced standing of 90 credits.

EXSC 452 Exercises and Weight Control Workshop (2)

This workshop will focus on the role of exercise in regard to its positive influences on weight control. The hazards and implications of being overweight will be studied. Techniques for evaluating energy balance and planning for weight loss programs are discussed in light of established scientific principles and procedures. Exercise along with its dietary counterpart are analyzed to determine their relative importance in the weight loss regime. Facts and fallacies are discussed, and opportunities for self-evaluation of leanness and fitness provide practical as well as theoretical experience. Prerequisites: EXSC 100, 310, and/or advanced standing of 90 credits.

EXSC 453 Reducing Coronary Heart Disease Workshop (2)

This workshop examines exercise as a means of evaluation, prescription, and diagnosis of the major threat to health in the United States today — heart disease. Recent studies with their findings and implications will be viewed. The scientific basis for recommended exercise and associated behavior will provide information with regard to children and adults of both sexes on reducing heart disease risk. Rehabilitative exercise programs for heart victims will focus on accepted training principles and the necessity for changing life styles. Prevention rather than treatment for heart disease will be stressed. Prerequisites: EXSC 100, 310, and advanced standing of 90 credits.

EXSC 454 Anaerobic Training Workshop (2)

This workshop provides a theoretical and practical framework for measurement and evaluation of anaerobic conditioning, flexibility, strength training, and plyometrics. Field and laboratory tests that can be administered by athletic coaches, teachers, and fitness professionals are practiced, analyzed, and discussed. Prerequisites: EXSC 310, 322 and/or advanced standing of 90 credits.

EXSC 455 Health/Fitness Instructor Workshop (1)

The Health/Fitness Workshop will provide structured experiences in the classroom, laboratory and exercise arenas to improve the knowledge, skills and abilities in health-related physical fitness assessment and exercise programming. This course will supplement existing coursework by correcting any deficiencies in learning competencies towards being a successful exercise professional. A review of certification materials is also an important component of the course. Prerequisites: EXSC 100, 310, and/or advanced standing of 90 credits.

EXSC 456 Certified Strength and Conditioning Specialist Workshop (1)

This workshop will provide structured experiences through instruction in the specific theoretical and practical concepts of strength and conditioning as they relate to the National Strength and Conditioning Association certification requirements. Upon completion of the workshop the student will be eligible to take the Certified Strength and Conditioning Specialist exam offered through the NSCA. Prerequisites: EXSC 310 and 322.

EXSC 461 Experimental Exercise Physiology (3)

This course will address various physiological conditions which impact physical performances. Experimental design and data collection techniques commonly used in Exercise Science literature will be addressed. Mini-experiments (sleep deprivation, carbohydrate ingestion, oxygen supplementation, caffeine ingestions, etc.) will be utilized to demonstrate various physiological responses in the exercise arena. Prerequisites: EXSC 310 and 311.

EXSC 462 Seminar in Exercise Physiology (3)

This seminar is designed to focus on the study and discussion of recent experimental and descriptive work in exercise science. Emphasis is placed on student's oral presentations with class interactions. Critical thinking and evaluation of research literature is included. Concepts and issues raised by students are reviewed and further discussed with leadership of the instructor. Integration of previous exercise science course material as well as recent issues are the objectives of this course. Prerequisites: EXSC 310 and 311.

EXSC 463 Neuromuscular Adaptations to Exercise (4)

This course is designed to study skeletal muscle physiology as it relates to exercise, and the physiological adaptations that occur following alterations in mechanical loading. Concepts relating to skeletal muscle adaptation during exercise training and inactivity are treated in both lecture and laboratory experiences. Prerequisites: EXSC 202, 310, and 311.

EXSC 485 Independent Study (Semester hours arranged)

This course deals with independent research and study under the direction of a faculty member and is designed to deepen the student's interest in a particular area of an academic field. The directing faculty member will be available exclusively to the student for a minimum of five hours per credit. Approval for enrollment must be obtained from the faculty member and from the Department chair. Approval and granting of credit must be in accordance with procedures and standards established by departmental faculty. The student must present a study prospectus prior to approval. Prerequisites: EXSC 100, 15 credits in EXSC.

EXSC 486 Field Experiences and Internships (Semester hours arranged)

Requirements for Approval:

All internship sites must be approved by the department faculty. Each application for an internship must be approved by the faculty member in charge of the experience, the director/supervisor of the site where the internship will be done, and the department chair. Before application is made, students must meet the following requirements:

1. Have faculty recommendation based on qualities essential for success in the assigned environment.
2. Have successfully completed at least 96 semester hours of credit
3. Have no incomplete grades in required courses.
4. Have a minimum average of 2.0 GPA overall and in the major.
5. Application deadlines are:
   a. November 1 for spring semester internships;
   b. April 1 for fall and summer internships

Fitness (FIT) General Education Activity Courses

College of Health Sciences

Faculty of Human Performance
Koehler Fieldhouse
570-422-3231.....www.esu.edu/fit

The mission of the Department of Movement Activities and Lifetime Fitness is to provide opportunities for students, through relative courses, to acquire the knowledge and skills which contribute to a healthier life style and to improve the quality of their lives through a lifelong practice of physical activity.

FIT courses are activity courses designed to meet General Education Requirements. To fulfill this requirement, a student must successfully complete two credits selected from the Lifetime Fitness courses (FIT) offered by the Department of Movement Activities and Lifetime Fitness. This may be accomplished with two one-credit courses or with one two-credit course.

Transfers and Accommodations:
All FIT activities will include accommodations to meet the physical activity needs of individuals with disabilities in accordance with the Americans with Disabilities Act. Prior military service or law enforcement experience is not accepted for FIT credit.

Faculty

Professor:
Elizabeth Gibbons (egibbons@esu.edu)

Associate Professor:
Kevin Casebolt, chair (kcasebolt@esu.edu)

Assistant Professors:
Shawn Munford (smunford@esu.edu)
Stanley Li-Ming Chiang (lchiang@esu.edu)

Course Descriptions

FIT 101 Lifetime Fitness and Physical Assessment (2)

This one-semester long course is designed to disseminate foundational information of concepts of physical assessment and lifetime fitness. The student will be able to demonstrate the skills needed to enrich the quality of life through physical activities that enhance cultural awareness and promote lifetime fitness (General Education Outcome #8). This course satisfies in its entirety the General Education Physical Activity requirement.

FIT 103 Fitness for Life (2)

This course will expose students to a wide variety of physical activities in conjunction with the components of fitness to promote fitness for a lifetime. Students will determine their present level of fitness through assessment. Students will design and implement a program based upon these assessments with the intention of improving their current level of fitness.

FIT 109 Contemporary Cardiovascular Conditioning (1)

This is a course that combines basic cardiovascular exercises from various facets of cardiovascular activities including, but not limited to, martial arts, boxing, and kickboxing moves to create a great workout. Military boot-camp type exercises are also included along with various stretching techniques to not only enhance cardiovascular endurance, but strength and flexibility as well. This course is designed to give students the tools to to develop and maintain a well-rounded workout program and is friendly to all and ages and activity levels.

FIT 110 Aerobic Dance (1)

This course is designed to develop cardio respiratory conditioning, muscle tone, improved posture, and other elements of fitness through a variety of dance and exercise movements performed to a musical accompaniment.

FIT 111 Personal Fitness I (1)

This course assists the student in developing a physical activity program based upon a wellness assessment of body composition, flexibility, strength, CHD risk factors, aerobic capacity, and diet. Students work with the instructor during the quarter to determine what prescriptive activities will compose their future program and how to implement those suggestions.

FIT 112 Pilates (1)

Pilates is a movement system that uses a series of floor exercises to increase strength, flexibility, stamina and concentration. The course includes Pilates mat work, relaxation techniques, and breathing techniques as a means of building strength, toning muscles, and unifying body and mind.

FIT 113 Self Defense (1)

This course is designed to give student exposure to all phases of self-defense. It includes: combative skills, counter moves, body attitudes, self-assertion, legal implications and psychological aspects of self-defense.

FIT 114 Weight Training (1)

The course provides students the opportunity to acquire a basic knowledge concerning weight training programs and their uses, to become familiar with a wide range of basic lifts and various self-testing procedures, and to develop an individualized weight-training program which will promote an optimal level of functional strength and endurance.

FIT 115 Tae Kwon Do I (1)

Students receive instruction in the basic skills of this martial art: sparring, kicking, punching, self-defense, and breathing techniques. The mental training elements such as patience, self control, concentration, perseverance, and courtesy are an integral part of this course.

FIT 116 Aqua Fitness (1)

This course combines the benefits of cardiovascular/aerobic conditioning with resistance training in the water. Students will perform basic high and low intensity movements, along with abdominal/core toning and stretching exercises. Various water resistance equipment will be used during aerobic conditioning to increase the intensity level of the workout.

FIT 119 Elementary Yoga (1)

Yoga is a system of exercise that improves the health of the entire body and physiological functioning. The course includes asanas (postures), relaxation techniques, and breathing techniques as a means of unifying body and mind.

FIT 120 Archery (1)

This course provides instruction in the basic techniques of target archery, low methods of anchoring, and bowsight method of aiming. The course includes archery films, novelty, and tournament shooting.

FIT 121 Fencing I (1)

This course develops basic skills and an understanding of foil fencing. Position and footwork are mastered, and students fence for touches thereby learning the competitive aspects of fencing.

FIT 122 Golf I (1)

This course provides instruction and practice in the basic strokes including driving, approaching (long and short), and putting. Sociocultural aspects of the sport, the rules, and etiquette are included. Golf course experience is included at nominal expense.

FIT 123 Volleyball I (1)

Students receive instruction in the basic fundamentals: overhand and underhand serve, overhand pass, underhand pass, spike and block. Basic offensive and defensive strategies and the rules of play governing the use of the basic skills are taught through single sex and co-ed teams of six, three, and two players.

FIT 127 Slow Pitch Softball (1)

This course provides for the development and use of softball skills in the slow pitch version of softball. The use of the basic skills of catching, fielding, throwing, pitching, and hitting will be emphasized, especially within the context of the playing of the game.

FIT 128 Soccer (1)

This course is designed to provide development and use of basic skills of soccer such as passing, trapping, heading, and shooting. Those skills as well as rules of the game and actual game play will be emphasized.

FIT 129 Basketball (1)

This course provides instruction regarding the fundamental skills associated with the sport including passing, shooting, dribbling, rebounding, screening and defending. Basic offensive and defensive strategies, along with the rules of the game will be introduced and reinforced especially within the context of playing the game, utilizing single-sex and co-ed teams of 4-7 persons.

FIT 130 Badminton (1)

This course provides instruction in the fundamental skills of the sport with emphasis on singles and doubles play, rules, and strategy. Serves, net shots, clears, drops, drives, and smashes are developed.

FIT 131 Racquetball I (1)

Students receive instruction in fundamental skills: forehand, backhand, and overhead techniques. The course includes the sociocultural aspects of the sport and the rules. The strategy involved in games of singles, cut throat and doubles is presented.

FIT 132 Tennis I (1)

Students receive instruction and practice in the basic skills: the service, service return, groundstrokes, approach shot, and net play. The course includes the sociocultural aspects of the sport and the rules and strategy of the games of singles and doubles. Student must furnish own racket.

FIT 133 Tai Chi (1)

This course covers the application and fundamental techniques of the traditional martial art, Tai Chi Chaun, from the physiological and psychological perspective.

FIT 140 Dance I (1)

In this survey course, students receive practice in the fundamentals of rhythm and dance. Students experience basic axial and locomotor movement and explore the qualities of movement using varied space and time relationships and energy-release.

FIT 141 International Ethnic Dance (1)

This course presents a wide variety of international folk dances including the square and contra dances familiar to the United States. Theoretical considerations concern the characteristics, ethnic sources, and values of the social forms of dance.

FIT 142 Social and Ballroom Dancing (1)

This course is designed to introduce students to basic social and ballroom dances including foxtrot, waltz, jitterbug, swing, country-western, cha-cha, and tango. Students will become familiar with basic step patterns and variations and skills of leading and following effectively.

FIT 143 Elementary Jazz Dance (2)

This is an elementary level jazz dance technique course which includes a variety of axial and locomotor techniques and basic combinations characteristic of historical and contemporary jazz dance, with emphasis on developing the physical and expressive potential of the human body. The class will present anatomical and aesthetic aspects of this dance genre. FIT 143 may be repeated for credit once as DANC 143.

FIT 153 Swimming I (1)

The purpose of this course is to learn the principles of water safety with primary emphasis on learning the mechanics of swimming each fundamental swimming stroke. Specifically, strokes include the front crawl, the back crawl, the elementary backstroke, the breaststroke, and the sidestroke. Students perform drills and conditioning exercises in order to reinforce their learning of each stroke.

FIT 161 Horseback Riding I (1)

This course includes the skills necessary in developing a safe and secure seat with effective use of the aids for the English style of riding. Students learn the fundamentals of handling a horse and tack safely and appropriately on and off the ground. Students must have a tetanus shot and insurance to cover accidental injury. Tetanus shots may be obtained at the Health Center.

FIT 162 Ice Skating (1)

The ice skating course is designed to develop the fundamental skills of ice skating, including forward and backward skating, basic turns, and stops. Recognition and performance of proper edges and elementary school figures are included. Students are urged to furnish their own figure skates; rental skates are available.

FIT 163 Skiing/Snowboarding I (1)

Skiing/Snowboarding I consists of eight lessons with instruction provided by the staff of local professional ski/snowboard schools. This course is designed for students who have little or no skiing or riding experience. This course will cover proper use of equipment, on-mountain safety and the correct use of lifts. Progressive skill instruction on snow will focus on balance, sliding, stopping, and

turning techniques. Students will learn at their own pace on mountain terrain matching their ability level.

FIT 164 Roller Skating (1)

Students receive instruction and practice in the basic skills: proper balance, best skating form, start, stop, forward and backward roll, proper stroking, mohawk turns, crosspulls, fundamental hops and jumps, etc. The course will cover the aerobic aspects as well, including the necessary warm-up stretching exercises for an effective workout. Skates will be furnished at the facility, unless students have their own.

FIT 171 International and Multicultural Games (1)

This course is designed to acquaint the student with physical activity and games from different countries. Students will be exposed to the nature of physical activity and an exploration of games from different countries. Students will broaden their cultural horizons and gain a better appreciation for physical activity as it is conducted by diverse cultures.

FIT 210 GE: Elementary Ballet (2)

This course will include techniques in elementary ballet including alignment, barre, center work, basic enchainements, and room and body directions, with emphasis on developing the physical and expressive potential of the human body. The class will enable students to understand and synthesize the kinesiological and anatomical, historical and theoretical, and aesthetic aspects of dance. May be repeated once for credit.

FIT 214 Yoga I (1)

Yoga is a system of exercise that improves the health of the entire body and physiological functioning. the course includes asanas (postures), relaxation techniques, and breathing techniques as a means of unifying body and mind.

FIT 215 GE: Elementary Lyrical Modern Dance (2)

This is an elementary level modern dance technique course. It explores a variety of axial and locomotor techniques and simple combinations characteristic of contemporary dance. The ability to apply skills in the art form is implied in any study of technique; this ability will be realized through improvisational and compositional experiences. Prerequisite: May be repeated for credit.

FIT 223 Volleyball II (1)

This course is designed to provide further instruction in the fundamentals of volleyball such as the underhand and overhand serve, underhand and overhand pass, attacks and block. An in-depth examination of offensive and defensive formations will be emphasized in an effort to structure and improve game play. Additionally, students will gain exposure to advanced skills such as digging and jump serving. Prerequisite: FIT 123 or equivalent.

FIT 232 Tennis II (1)

The primary emphasis of this course is to reinforce the basic skills of tennis and to explore advanced shots and strategy. Students will learn the proper use of spin and be able to improve their footwork and decision-making during their shot selection. Singles and doubles strategy will also be discussed and applied in tournament situations. Racquets will be provided. Prerequisite: FIT 132 or equivalent.

FIT 240 Dance II (1)

Students explore movement as a form of artistic expression. The course includes timing in axial and locomotor movement, improvisation (exploring the space, time, and energy qualities for their expressive values), and the creation of original choreographic studies (students work at a level commensurate with their prior experience). Theoretical considerations include historical development, characteristics, prominent artists, and present status of contemporary dance. Prerequisite: FIT 140 or equivalent.

FIT 256 Scuba Diving (1)

This program is designed to prepare students with essential knowledge and diving skills to participate in open water scuba diving activities. Upon completion of the course, students will be qualified to do an open water dive for certification. Prerequisites: Students must pass a water pretest to continue in the course: a) distance swim of 250 yards nonstop, b) survival swim for 10 minutes, c) underwater swim of 50 feet with no push off or dive, d) recovery of a 10 lb. diving brick from deep water (12 feet).

FIT 261 Horseback Riding II (1)

Students receive further instruction in the English style of riding. The course includes more advanced rein effects and leg aids in the gaits which lead up to eventing and showing. Horse management and the care and fitting of saddlery are included. Students must have a tetanus shot and insurance to cover accidental injury. Tetanus shots may be obtained at the Health Center. Prerequisite: FIT 161 or equivalent.

FIT 263 Skiing/Snowboarding II (1)

Skiing/Snowboarding II is a continuation of Skiing/Snowboarding I, with emphasis placed on higher skill development. This course consists of eight lessons with instruction provided by the staff of local professional ski/snowboard schools. This course is designed for students who have at least an intermediate level of skiing or riding ability. Course content will concentrate on refining turning skills as well as teaching advanced carving techniques. Students will be exposed to skiing/riding on steep terrain under a variety of conditions such as bumps. Prerequisite: FIT 163.

FIT 271 Adventure Activities (1)

Adventure activities involve nontraditional games and exercises, group initiative problems, and low and high ropes course elements. This course will provide the student with opportunities to meet new challenges, face risk, and overcome obstacles through individual and group effort. Students are invited to venture forth into the unknown, exercising choice and decision making in meeting physically demanding challenges. Extensive use will be made of the Stony Acres ropes course. Students must show evidence of health/accident insurance.

FIT 272 Backpacking (1)

Students are instructed in basic skills of backpacking, wilderness camping and cooking, navigation, and trip planning. Students will plan and carry out an overnight trip in the Stroudsburg area.

FIT 273 Basic Sailing (1)

Instruction will be given in the fundamentals of sailing and small craft safety. The students will make practical application of the skills in both solo and crew experiences. An introduction to sailboat racing is also featured. Swimming and deep-water survival are essential.

FIT 274 Canoeing I (1)

This course focuses on the American Red Cross Basic Canoeing skills essential in handling a canoe safely and efficiently on land and in water. Students acquire paddling skills in pool, lake, and river environments. A student must have adequate swimming skills and be able to function in a deep-water environment. Qualified students receive the American Red Cross Basic Canoeing Certification.

FIT 275 Cycling (1)

This course introduces the student to general knowledge of buying and maintaining a bicycle. The course also instructs in basic cycling skills such as the biomechanics of pedaling, hand positions, braking, group riding, touring, and safety. Students must provide their own bicycles. Actual riding is a major focus of the course.

FIT 290 Special Topics (1)

These courses are designed to meet specific needs of groups of students. The courses will be offered on a trial basis in order to determine the demand and value of introducing them as part of the university curriculum.

FIT 310 GE: Intermediate Ballet (2)

This course will include technique in intermediate ballet including alignment, barre, center work, room and body directions, and intermediate-level enchainements. Students will further develop their awareness of the role of principles of flexibility, muscular strength and endurance, and cardiovascular fitness, with emphasis on developing the physical and expressive potential of the human body. May be repeated for credit. Prerequisite: DANC/FIT 210 or equivalent (1-2 yrs. prior ballet study).

FIT 314 GE: Creative Experiences in Dance (1)

This course provides the student with intermediate to advanced dance experience (minimum 3 years of study) guidance in individual and group experiences in dance. Using a related arts approach it examines the expressive quality of movement in the use of time, space, and energy factors. Improvisation and choreography are included. Fulfills GE requirement for Performing Arts. Prerequisites: PETE 110 or FIT 140; DANC 114, DANC or FIT 210; DANC or FIT 215.

FIT 315 GE: Dance Performance and Production (1)

This course consists of performance, choreography, and production work involved with dance as a performing art. Work in performance and technical areas is included, and participation in production is required. This course may be elected more than once for credit (maximum of 3 times). Prerequisite: FIT 140, PETE 110 or equivalent dance instruction.

FIT 353 Lifeguard Training (1)

Successful completion of this course leads to acquisition of the American Red Cross Lifeguard Training Certificate. This course replaces the Advanced Lifesaving course. The Lifeguard Training course will provide participants with the skills and knowledge required to be a lifeguard at a swimming pool or protected (non-surf) open-water beach. Prerequisites: 500 yards continuous swim consisting of front crawl, breaststroke and sidestroke; retrieval of a 10 lb. brick from 8 feet of water and treading water for 2 minutes using the legs only.

FIT 453 Water Safety Instructor (1)

Satisfactory completion of this course leads to certification as a Red Cross Water Safety Instructor. The course focuses on the development of skill proficiency and teaching proficiency of swimming and lifesaving skills. The Red Cross Introduction to Health Services Education course (IHSE) is incorporated into the Water Safety course. Course is also listed as PETE 453. Prerequisites: Current lifeguard training card; successful completion of Red Cross swimming prerequisite.

FIT 454 Lifeguard Instructor (1)

Satisfactory completion of this course leads to certification as an American Red Cross Lifeguard Instructor. This course prepares instructor candidates to teach Lifeguard Training, Basic Water Safety, Emergency Water Safety, and the Lifeguard Review course. Prerequisites: Lifeguard Training Certificate (FIT/PETE 353); current CPR Certificate/standard First Aid Certificate.

FIT 463 Basic Alpine Ski Instructor (1)

This course is designed to provide the student with knowledge of the various approaches to ski instructing and teaching philosophies. It also enhances the student's development of the technical aspects for teaching skiing fundamentals to adults and children. Prerequisite: FIT 263**.**

Modern Languages

College of Arts and Sciences

The Faculty of Arts and Letters
Stroud Hall, Room 208
570-422-3407.....www.esu.edu/flng

About the Program
Studying a foreign language at East Stroudsburg University offers students an ideal opportunity to broaden their intellectual horizons, improve their communication skills, and gain a genuine understanding of another culture. Students may greatly enhance their prospects of employment by pursuing Spanish or French either as an autonomous major or as a second major in conjunction with such disciplines as Business, Health Studies, Psychology, Hotel/Restaurant/Tourism, English, History or Communications, among other fields.

Employment / Career Opportunities
As employment opportunities become increasingly international in their orientation, language majors may find new career possibilities in the realms of international business, media or technology. With a careful selection of courses supplementing their language major, it is possible for a student to pursue graduate studies in medicine, business, or law. Whatever a student's professional interest, pursuing the study of a foreign language can only enhance the potential for success while increasing marketability.

Department of Modern Languages / Program
The primary mission of the Department of Modern Languages at East Stroudsburg University is to offer students a comprehensive program of studies in French or Spanish. Students may choose from a bachelor of arts degree -- typically leading to a career in translation, business, government, or social services -- or a bachelor of science degree, which includes K-12 teaching certification.

A strong minor in Interdisciplinary German Studies is also offered by the department. This program draws from language courses and German-related coursework in History, Economics, Geography and Political Sciences. French and Spanish minors are also offered.

Complementing the majors and minors is a rich variety of additional language offerings: Arabic, Chinese, Italian, Japanese, Latin, Portuguese and Russian.

Whatever level of language study chosen by the student, the basic goal remains the same: to acquire useful proficiency in that language, with meaningful cultural knowledge. In its pursuit of these goals, the department follows the guidelines and standards established by such professional organizations as the American Council on the Teaching of Foreign Languages (ACTFL), the Modern Language Association of America (MLA), National Council for the Accreditation of Teacher Education (NCATE) and the various professional organizations affiliated with those languages in which degrees are offered (AATSP, AATF, AATG, NSE, ISEP).

Overseas Travel / Study
Overseas travel and study opportunities offer students unparalleled insight into the language and culture, and also shed new light on professional possibilities. Study abroad is a transformative experience on many levels. The great majority of ESU language majors and minors opt to spend a month, a semester or a full academic year in another country. ESU's Office of International Programs assists students with choosing a destination, academic integration of overseas credits, financial planning and issues of acculturation. As a member of the National Student Exchange (NSE) and the International Student Exchange Program (ISEP), ESU ensures that students receive the widest possible selection of destinations at the lowest possible cost.

Are you are interested in...
- Becoming fluent in a second or third language
- Gaining a competitive edge with a valuable second major
- Unique travel experiences
- Exploring other cultures in-depth

Choose Modern Languages at ESU
- Small class sizes
- Skilled faculty from around the world
- Intersections with Business, Health Studies, etc.
- Extensive career placement
- State-of-the-art Language Learning Center
- Affordable study abroad

Is Language Study a career path for me?

Career Potential
- Language Educator
- Translator / Interpreter
- Hospitality Program Manager
- Bilingual Specialist in Healthcare, Sales, Social Work
- Linguist

Career Settings
- K-12 Schools
- International Business
- Media Communications
- Technology
- United Nations or Peace Corps
- Graduate School

More detailed career information is available from the department.

Bachelor of Arts in French

30 semester hours
- **Required major courses:** FLFR 235, 315, 336, 343; 18 additional semester hours in FLFR (any course except FLFR 116; at least three of which must be met with a 400-level literature course).
- Please see the university requirements in this catalog.

Bachelor of Arts in Spanish

30 semester hours
- **Required major courses:** FLSP 310, 315 (or 416), 336; FLNG 361; 18 additional semester hours, three of which must be met with a 400-level literature course. (Language course 116 is not counted toward the major.)
- Please see the university requirements in this catalog.

Note: All students pursuing a Bachelor of Arts degree in French or Spanish must complete a minimum of 12 credits at ESU in their target language at a level higher than Language 215 (Language IV). Of these 12 credits, a minimum of three (3) credits must be at the 400 level.

Students must maintain a minimum quality point average of 2.50 in the major. No grade less than "C" will be accepted in any course within the major.

Additional information is in the Foreign Language Department and available upon request. The department very strongly encourages students majoring in a language to participate in foreign study. Appropriate credit will be awarded for courses taken through programs approved by the department.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education. ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Bachelor of Arts in French and Spanish

Suggested Program Curriculum Plan
(Subject to change by the university without notice)

Freshman Year

Fall

Language 214	3
ENGL 103 English Composition	3
General Education Elective - Humanities #1	3
General Education Elective - Social Science #1	3
General Education Elective - Science #1	3
Subtotal	**15**

Spring

Language 215	3
General Education Elective - Humanities #2	3
General Education Elective - Science #2	3
General Education Elective - Social Science #2	3
General Education Elective - Humanities #3	3
Subtotal	**15**

Sophomore Year

Fall

Language 235 French/300-level Spanish	3
Language 200/300 level	3
General Education Elective - Humanities #4	3
General Education Elective - Social Science #3	3
General Education Elective - Science #3	3
Fitness Elective	1
Subtotal	**16**

Spring

Language 315	3
Language 336	3
General Education Elective - Social Science #4	3
General Education Elective - Science #4	3
Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

Language 310 (Spanish) Language 200/300 level	3
General Education Elective - Social Science #5	3
General Education Elective - Humanities #5	3
General Education Elective - Science #5	3
Elective/FLNG 361 Linguistics (Spanish)	3
Subtotal	**15**

Spring

Language 300/400-Level	3
Elective	3
Language 343 (French) / or Elective	3
Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall

Language 400-level Literature	3
Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

Language 400-level Elective	3
Elective	3
Elective	3
Elective	3
Elective	1
Subtotal	**13**
Total Credits	**120**

For more information, contact the department by calling 570-422-3407

Bachelor of Science in French and Spanish

Suggested Program Curriculum Plan
(Subject to change by university without notice)

Freshman Year

Fall

Language 214	3
ENGL 103 English Composition	3
General Education Elective - Humanities #1	3
General Education Elective - Social Science #1	3
General Education Elective - Science #1	3

Subtotal	**15**
Spring	
Language 215	3
General Education Elective - Humanities #2 English	3
General Education Elective - Science with a lab #2	4
PSED 150 Introduction to Teaching All Students	6
Subtotal	**16**
Sophomore Year - Fall	
Language 235/200-Level Language	3
PSED 250 Psychology of Learners in Diverse Communities	3
General Education Elective- Humanities #3	3
General Education Elective - Social Science #2	3
General Education Elective - Science #3 Math	3
Fitness Elective	1
Subtotal	**16**
Spring	
Language 315	3
Language 336 or 416	3
SPED 350 Assessment of Student Learning and Behavior	3
General Education Elective - Science #4 Math	3
General Education Elective - Social Science #3	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall	
Language 310 (Spanish)/300-400 Language (French)	3
REED 350 Teaching Reading to Communities of Diverse Learners	3
General Education Elective - Social Sciences #4	3
FLNG 361 Introduction to Linguistics	3
General Education Elective - Humanities #4	3
Subtotal	**15**
Spring	
Language 300/400-level Elective	3
Language 300/400-level Elective	3
PSED 420 Seminar in Secondary Education I	3
General Education Elective - Humanities #5	3
General Education Elective - Science #5	3
Subtotal	**15**

Senior Year

Fall	
Language 400-level Literature	3
General Education Elective- Social Science #5	3
PSED 416 Teaching of Foreign Language	3
PSED 421 Seminar in Secondary Education II	2
Language 343 (French)/Elective	3
Subtotal	**14**
Spring	
PSED 430 Student Teaching in Secondary Education/Middle School/Junior High School	6
PSED 431 Student Teaching in Secondary Education/Senior High School	6
FLNG 499 Student Teaching Internship	1
Subtotal	**13**
Total Credits	**120**

NOTE: Students must schedule Praxis I before spring break of the sophomore year in order to be screened into the Secondary Education program.

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact the department by calling 570-422-3407

Note

All students pursuing a bachelor of science degree in French or Spanish must maintain a minimum quality point average of 3.0 in the major. No grade less than "C" will be accepted for the major.

The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section The College of Education in the Undergraduate Catalog for specific requirements for admission into teacher education programs.

Certification encompasses kindergarten through grade 12.

All students pursuing a bachelor of science degree in French or Spanish must complete a minimum of 12 credits at ESU in their target language at a level higher than Language 215 (Language IV). Of these 12 credits, a minimum of three (3) credits must be at the 400 level.

Students seeking a bachelor of science degree or certification in French or Spanish must pass through a series of eight assessments that are mandates as part of the department's NCATE accreditation status (National Recognition). These include: (1) the ACTFL telephonic Oral Proficiency Interview (OPI); (2) the Praxis II Spanish Content Knowledge exam; (3) a Target-Language Linguistics Assessment; (4) a Unit Plan; (5) an observation during Student Teaching; (6) a Case Study during Student Teaching; (7) the Capstone Exam in Civilization of the French or Spanish-speaking world; and (8) an Essay on a Immersion Experience. See the department for further details.

Students must take the OPI before entering student teaching, passing at the Advanced Low level or higher. Candidates for the bachelor of science degree in French or Spanish will also be required to demonstrate appropriate language proficiency through an exit interview conducted by faculty members within the appropriate language component.

Students Returning for Certification Only:

A. Requirements for Students with a Previous Degree in a Field other than Language of Certification

These students must follow all requirements as set forth for the bachelor of science candidates. Students must complete the equivalent of 27 upper-level credits in the language plus a Linguistics course and a Methods course. Native-speakers must take all course work at the 300-400 levels.

B. Requirements for Students with a Previous Degree in Language of Certification
These students will be handled on a case-by-case basis. An oral interview in the target language will be conducted with members of the faculty from the language area. Following this initial interview, the faculty of the language area, in consultation with the chair, will decide upon the number of additional credits (if any) required of the candidate.

Bachelor of Arts or Bachelor of Science with a Double Major— Foreign Language + Foreign Language

Language levels 116 and 117 are counted for one of the languages. For all other requirements, refer to the Foreign Language B.A. or B.S. program.

Elementary Education Concentration

This is a single subject area of concentration in French or Spanish. Students will be required to complete a minimum of 12 credits in the target language starting with language levels III and IV. Courses must include one of the following: FLFR 235; FLFR/FLSP 315; FLFR/FLSP 336. Students must maintain a 2.50 quality point average in their area of concentration. No grade less than "C" will be accepted in any course within the concentration.

Modern Language General

The following courses may not be counted toward the major: FLFR 120; FLSP 120; FLFR 141; FLSP 143. These courses do count toward General Education.

Departmental Authorization of Credits for Native Speakers

This option is available only to native speakers of French or Spanish. Such a student will apply for authorization only after having spent at least two semesters at East Stroudsburg University and only after having completed two language courses at ESU at the 300 level or above, and having earned a QPA of 3.0 or better in the major.

The student will be required to write a detailed statement in the target language concerning the extent of language experience and the relation of that language experience to a legitimate course of study. Each application will receive the consideration of the total department membership, and the decision concerning the number of credits to be granted will be decided collaboratively between the department chair and the professors of the language area in question. The maximum number of credits which may be granted by the department is six.

The Department of Modern Languages may authorize credit only for those languages in which it offers a major, namely French or Spanish. This policy also applies to any credits granted through examination. (See Department of Foreign Languages for specific information.)

Native speakers choosing a major in their native language will be required to complete 12 credits at the 300-400 level, in addition to required courses.

Please note: Native speakers choosing courses in their native language (but not majoring in the language) will be placed in appropriate courses by Foreign Language Faculty.

General Education Offerings:

Students with advanced language skills who start a language sequence at a level above the GE courses listed may substitute that course(s) as valid GE offerings.

For more information, contact the department by calling 570-422-3407

Stroud Hall, Room 208 570-422-3407 www.esu.edu/ml

Bachelor of Science with a French Major (Education)

31 semester hours

- **Required major courses:** FLFR 235, 315, 336; 343, FLNG 361, 499; 15 additional semester hours, three of which must be met with a 400-level literature course. (Language courses 116 and 117 are not counted toward the major.)
- **Required professional education courses:** MCOM 262; PSED 161, 242, 416, 420, 421, 430, 431; REED 321.
- **Required tests:** ACTFL Oral Proficiency Interview (with a ranking at "Advanced Low"), PRAXIS I, PRAXIS Fundamental Subjects Content Knowledge (#30511), PRAXIS French Content Knowledge (#20173).
- **Note:** All students pursuing a Bachelor of Science Degree in French must maintain a minimum quality point average of 3.0 in the major. No grade less than "B" will be accepted for the major.
- Please see the university requirements in this catalog.
- **Note:** Certification encompasses kindergarten through grade 12.

Bachelor of Science with a Spanish Major (Education)

31 semester hours

- **Required major courses:** FLSP, 310, 315 (or 416), 336; FLNG 361, 499; 18 additional semester hours, three of which must be met with a 400 level literature course. (Language courses 116 and 117 are not counted toward the major.)
- **Required professional education courses:** MCOM 262; PSED 161, 242, 416, 420, 421, 430, 431; REED 321.
- **Required tests:** ACTFL Oral Proficiency Interview (with a ranking at "Advanced Low"), PRAXIS I, PRAXIS Fundamental Subjects Content Knowledge (#30511), PRAXIS Spanish Content Knowledge (#10191).
- **Note:** All students pursuing a Bachelor of Science Degree in Spanish must maintain a minimum quality point average of 3.0 in the major. No grade less than **B will be accepted for the major.**
- Please see the university requirements in this catalog.
- Certification encompasses kindergarten through grade 12.

Note: All students pursuing a bachelor of science degree in French or Spanish must complete a minimum of 12 credits at ESU in their target language at a level higher than Language 215 (Language IV). Of these 12 credits, a minimum of three credits must be at the 400-level.

Students seeking a bachelor of science degree or certification in French or Spanish must take the ACTFL telephonic Oral Proficiency Interview before entering student teaching. It is expected that students will pass the test at the Advanced Low level. These candidates will also be required to demonstrate appropriate language proficiency through an exit interview conducted by faculty members within the appropriate language component.

Students must maintain a minimum quality point average of 3.0 in the major. No grade less than B will be accepted in any course within the major.

The department very strongly encourages students majoring in a language to participate in foreign study. Appropriate credit will be awarded for courses taken through programs pre-approved by the department.

Additional information may be found in the Foreign Languages Department or online.

Students Returning for Certification Only:

A. Requirements for Students with a Previous Degree in a Field other than Language of Certification
These students must follow all requirements as set forth for the bachelor of science candidates. Students must complete the equivalent of 27 upper-level credits in the language plus a Linguistics course and a Methods course. Native-speakers must take all course work at the 300-400 levels. (See B.S. Requirements)

B. Requirements for Students with a Previous Degree in Language of Certification
These students will be handled on a case-by-case basis. An oral interview in the target language will be conducted with members of the faculty from the language area. Following this initial interview, the faculty of the language area, in consultation with the chair, will decide upon the number of additional credits (if any) required of the candidate.

Bachelor of Arts or Science with a Double Major (Foreign Language + Foreign Language)

Language levels 116 and 117 are counted for one of the languages. For all other requirements, refer to the Foreign Language B.A. or B.S. program.

German Interdisciplinary Studies Minor

This minor provides an integrated program of course work which combines the study of German (nine credits) with relevant courses from other departments (nine credits).

The nine German credits may be chosen from the following courses: FLGR 116, 117, 120, 214 or any upper-level German course approved by the department.

Corequisites may be chosen from ART 202, ENGL 273, GEOG 234, HIST 281 or 473, PHIL 318 or 457, POLS 222 or 426. Two of the corequisites should be at the 300-level or above.

A minimum of 12 credits must be taken in residence.

A minimum QPA of 2.5 must be maintained in program courses.

French or Spanish Minor

Students will be required to complete a minimum of 18 credits in the target language. Any target language courses may be counted for the minor, except the following: FLFR 120; FLFR 141; FLSP 120; FLSP 143.

Twelve semester hours in the minor must be completed at East Stroudsburg University. This residency requirement applies to all students, including transfer students who arrive with credits completed elsewhere.

Students are required to maintain a QPA of 2.50. No grade less than "C" will be accepted in any course within the minor. Native speakers choosing a minor in their native language will be required to complete twelve credits at the 300-400 level.

Elementary Education Concentration

This is a single subject area of concentration in French or Spanish. Students will be required to complete a minimum of 12 credits in the target language starting with language levels III and IV. Courses must include one of the following: FLFR 235; FLFR/FLSP 315; FLFR/FLSP 336. Students must maintain a 2.50 quality point average in their area of concentration. No grade less than "C" will be accepted in any course within the concentration.

Foreign Language General
The following courses may not be counted toward the major: FLFR 120; FLSP 120; FLFR 141; FLSP 143; FLSP 233; FLSP 234. These courses do count toward General Education.

Departmental Authorization for Native/Near-native Speakers
This option is available only to native speakers of French or Spanish. Such a student will apply for authorization only after having spent at least two semesters at East Stroudsburg University and only after having completed two language courses at ESU at the 300 level or above, and having earned a QPA of 3.0 or better in the major.

The student will be required to write a detailed statement in the target language concerning the extent of language experience and the relation of that language experience to a legitimate course of study. Each application will receive the consideration of the total department membership, and the decision concerning the number of credits to be granted will be decided collaboratively between the department chair and the professors of the language area in question.

The maximum number of credits which may be granted by the department is six (6). The Foreign Language Department may authorize credit only for those languages in which it offers a major, namely French or Spanish. This policy also applies to any credits granted through examination. (See Department of Foreign Languages for specific information.)

Native speakers choosing a major in their native language will be required to complete 12 credits at the 300-400 level, in addition to required courses.

Please note: Native speakers choosing courses in their native language (but not majoring in the language) will be placed in appropriate courses by Foreign Language Faculty.

General Education Offerings: Students with advanced language skills who start a language sequence at a level above the GE courses listed may substitute that course(s) as valid GE offerings.

Faculty

Professor:

Associate Professors:

Jeffrey Ruth, Chair (jruth@po-box.esu.edu)

Assistant Professors:
Paul Creamer (pcreamer@po-box.esu.edu)

Esther Daganzo-Cantens (edcantens@po-box.esu.edu)

Annie Mendoza (amendoza@po-box.esu.edu)

Modern Languages Course Descriptions

FLNG 120 GE: Classical Mythology (3)

This course will study the nature and development of classical mythology through its various manifestations in the Greco-Roman world. Topics will include cosmology, Homeric heroes, the Olympians, fertility myths, and ancient religious customs. The class will read from a wide range of primary texts (Homer, Ovid, Virgil) and will also examine the legacy of classical mythology in selected works of modern art and literature.

FLNG 361 Introduction to Linguistics (3)

This course examines the nature of language. Characteristics of phonological and grammatical systems and techniques of linguistic analysis are considered. The field of linguistics is discussed. Prerequisite: Advanced standing.

FLNG 485 Independent Study (semester hours to be arranged)

This course will provide an opportunity for students to receive further language instruction or engage in directed research and study of a selected topic on an individual basis. Specific course requirements and evaluations will be developed by the instructor and approved by the chair. Prerequisites: For languages, two courses in the appropriate language or culture area, if those courses exist; for directed research, advanced standing of 75 credits.

FLNG 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy. Prerequisite: Qualification to student teach. Concurrent registration in PSED 430 or 431.

Arabic

FLAR 116 GE: Arabic I (3)

This is a foundation course in elementary Arabic. Emphasis will be placed on developing basic oral proficiency, studying the structure of the language, and examining its relevant cultural contexts. Multimedia resources at the Language Learning Center will supplement course materials. Prerequisites: Students with no previous study of the language, or no more than one year of previous study, are admitted. This is not a course for heritage speakers of Arabic.

FLAR 117 GE: Arabic II (3)

This course completes the first-year introduction to Arabic, providing students with the knowledge and skills needed to function at the elementary level. Emphasis will be placed on developing oral proficiency appropriate to level II, studying grammatical structures of the language, and further examining relevant cultural context. Multimedia resources at the Language Learning Center will supplement course materials. Prerequisites: FLAR 116 or the equivalent of one semester of college-level study, or no more that 2-3 years high school study. This is not a course for heritage speakers of Arabic.

Asian Languages

FLCH 116 GE: Chinese I (3)

This is a foundation course in Chinese language. It will provide the students with the basic skills of speaking and listening. It will include extensive study of language structures and vocabulary aimed at facilitating authentic communication with native speakers. Use of the language lab as determined by the instructor will be required. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLCH 117 GE: Chinese II (3)

This course will further develop skills acquired in Chinese I. It will provide the students with extended practice in speaking and listening. It will include extensive study of language structures and vocabulary aimed at facilitating authentic communication with native speakers. Use of the language lab as determined by the instructor will be required. Prerequisites: FLCH 116

FLCH 214 Chinese III (3)

This course is a third-semester course designed to advance students toward intermediate proficiency in Chinese (Mandarin). Reading, writing, listening and speaking skills will be developed via textbook and multimedia resources both in and out of the classroom, with a communicative orientation emphasizing authentic cultural content and real-world competencies. Prerequisites: FLCH 117, or equivalent.

FLCH 215 Chinese IV (3)

This course is a fourth-semester course designed to advance students toward upper-intermediate proficiency in Chinese (Mandarin). Reading, writing, listening and speaking skills will be developed via textbook and multimedia resources both in and out of the classroom, with a communicative orientation emphasizing authentic cultural content and real-world competencies. Prerequisites: FLCH 214, or equivalent.

FLCH 221 Reading Chinese (3)

Written Chinese texts from the realms of business, health-related services, literature, philosophy and science form the core materials for this intermediate-level course. Its purpose is to improve each student's facility in reading Chinese (Mandarin). A systematic review of language structures and regular acquisition of new vocabulary will accompany the guided readings. Simplified Chinese Characters will be used almost exclusively in these readings. Prerequisite: FLCH 215 or equivalent.

FLCH 235 Chinese Listening and Speaking (3)

The purpose of this intermediate-level course is to improve each student's speaking and listening comprehension in Chinese (Mandarin). This is accomplished via authentic Chinese sources (newscasts, music, radio, readings, etc.), practice with communicative situations, ongoing grammatical study and continuing expansion of vocabulary. Prerequisite: FLCH 215 or equivalent.

FLJA 116 GE: Japanese I (3)

This is a foundation course in Japanese language. It will provide the students with the basic skills of speaking and listening. It will include extensive study of language structures and vocabulary aimed at facilitating authentic communication with native speakers. Use of the language lab as determined by the instructor will be required. Prerequisites: Students with no previous study in the language, or no more than 1 year of previous study, will be admitted.

FLJA 117 GE: Japanese II (3)

This course will further develop skills acquired in Japanese I. It will provide the students with extended practice in speaking and listening. It will include extensive study of language structures and vocabulary aimed at facilitating authentic communication with native speakers. Use of the language lab as determined by the instructor will be required. Prerequisites: FLJA 116 or equivalent of no more than one semester of college-level study.

French

FLFR 116 GE: French I (3)

This is a foundation course designed for the beginning student. It includes the study of grammar and reading materials and emphasizes social and cultural values. Use of the language laboratory as required by the instructor. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLFR 117 GE: French II (3)

This is a continuation of French I. Its purpose is to further reinforce previously acquired basic language skills. Use of the language laboratory as required by the instructor. Prerequisite: FLFR 116 or equivalent of one semester of college-level study, or no more than 2-3 years combined total of junior high/high school language.

FLFR 120 GE: French Masterpieces in Translation (3)

This is a general education course open to all students except French majors. It includes reading and analysis of representative French works, done in English translation, of the 19th and 20th centuries.

FLFR 141 GE: French Influence on European Culture (3)

This course, in English translation, concentrates on original esthetic texts, which reveal the movement of ideas at two high points in French civilization. It shows the reasoning behind French baroque, classicism, romanticism, symbolism, Dadaism, and Surrealism. This course is open to all students except French majors.

FLFR 214 GE: French III (3)

This is an intermediate level course designed to improve the communicative skills of students who have studied French for one-year in college or 4 years in high school. Students will practice patterns of grammatical structures both orally and in written exercises. Prerequisites: FLFR 117, or four years of high school French.

FLFR 215 GE: French IV (3)

This is a continuation of the French III course, and is designed to further develop those skills already learned. New grammatical concepts will be learned as well. Prerequisite: FLFR 214 or equivalent high school preparation.

FLFR 221 Reading French (3)

This is an intermediate level course designed to meet the needs of students who are interested in learning to read French. Students will develop both active and passive vocabulary through reading materials, which are graded as to level of difficulty. Prerequisite: FLFR 214 or equivalent.

FLFR 231 GE: French for Travelers (3)

This is an intermediate language course designed for the student who wishes to acquire conversational skills, which will enable the student to travel more efficiently and with greater language ease in French-speaking countries. Prerequisites: FLFR 116 and 117, or equivalent.

FLFR 235 Listening/Speaking French (3)

This is an intermediate course designed to develop the listening/speaking skills in the target language. The exercises will include conversations, commercials, and formal speeches. Students will be able to distinguish between formal and colloquial language. Prerequisite: FLFR 214 or equivalent.

FLFR 251 Translation: French (3)

This is an intermediate course designed to develop the facility of translation into English with texts, which are graded as to level of difficulty. Readings may include several modern short stories, current newspaper articles, magazine articles, and excerpts from various texts. Offered on demand. Prerequisite: FLFR 214 or equivalent.

FLFR 290 Special Topics (3) (Semester hours arranged)

These courses are designed to meet specific needs of students. Such courses are offered on a trial basis to determine the demand for and value of introducing them as part of the curriculum.

FLFR 301 Introduction to French and Francophone Literature (3)

This course includes reading and analysis of representative works of French and Francophone literature. Students will develop their linguistic skills through a series of interpretative essays and oral reports. Prerequisite: FLFR 215 or equivalent.

FLFR 302 French and Francophone Media (3)

This course will introduce students to the diversity of present-day media in France and the French-speaking world. The course will cover a wide range of sources including print (newspapers, magazines), audio (live and recorded radio broadcasts), video (recorded programs from French television), and various electronic resources. Class participation, oral reports and written assignments will emphasize the development of language skills needed to comprehend and discuss the issues raised. Prerequisite: French 215 or equivalent.

FLFR 305 French and Francophone Cinema (3)

This course will involve screenings and discussions of selected films from three distinct periods: classic French cinema (Gance, Carne', Renoir), the new wave (Truffaut, Godard, Rohmer) and contemporary Francophone cinema. Students will present oral reports and write analytic essays in French on the films viewed. Prerequisites: FLFR 215 or 4 years of high school French.

FLFR 307 French for Professional Communication (3)

Students will read, discuss, evaluate and translate a variety of sources reflecting current developments in the realms of business, science and technology. There will be an introduction to the specialized vocabulary of each profession with extensive practice in discussing topics relevant to these fields. Students will complete a series of oral and written assignments, including technical translations. Prerequisite: FLFR 215 or equivalent.

FLFR 312 French Poetry (3)

This course will trace the evolution of poetic discourse in France, focusing on four periods: Renaissance love lyric, the Romantic poetics of hyperbole, Symbolist poetics (Baudelaire, Verlaine, Rimbaud, Mallarme) and twentieth-century innovations (Apollinaire, Valery, Breton, Eluard, Ponge, Michaux). The intertexual relationship of poetry to painting and music will help situate our reading within a broad cultural context. Students will present several reports and write brief essays in French on the poems studied. Prerequisite: FLFR 215 and FLFR 301 or equivalent.

FLFR 315 French Grammar and Composition (3)

This course consists of a thorough review of grammar, verbs, and idioms with much practical exercise in composition; it is required for all majors. The course is offered on demand. Prerequisite: FLFR 235.

FLFR 336 French Oral Practice (3)

This course is designed to help the student attain fluency in French. It includes a presentation, discussion, and criticism of timed oral reports

on a wide variety of subjects, as well as individual use of the language laboratory. The class limit is 12 students and offered on demand. Prerequisite: FLFR 235.

FLFR 343 French Civilization (3)

This course covers the history, geography and cultural trends of France from early periods to the modern-day. The course is offered on demand. Prerequisite: FLFR 215.

FLFR 401 Paris as Cultural Icon (3)

This course will examine selected works of fiction, poetry, films, paintings, photographs and other cultural artifacts which reflect the status of Paris as the capital of French culture. The class will study the links between the city's artistic status and the transformations operated by Haussmann, Mitterand and other civic leaders. Prerequisites: FLFR 301, and FLFR 215 or 4 years of high school French.

FLFR 417 The French Literature of Ideas (3)

This course will trace the development of the "literature of ideas" in France from it's Renaissance origins in the "Essais" of Montaigne, through its Enlightenment manifestations in the writings of Voltaire, Diderot and Rousseau, its existential anxiety in Sartre and Camus, and its post-modern dissolution in texts by Barthes, Foucault and Derrida. A major theme of the course will be the historical and cultural implications of this tradition, such as the American Revolution's debt to the French Enlightenment or the pervasive post-war malaise in Europe which found its voice in existentialism. The course is conducted entirely in French. Prerequisites: FLFR 215 or 4 years of high school French, and FLFR 301.

FLFR 423 Nineteenth Century French Literature (3)

This course examines the backgrounds and distinctive features of Romantic and Realistic periods. It includes readings in prose and poetry from representative authors, including Hugo, Vigny, Musset, Stendhal, Balzac, Zola, Flaubert, and Maupassant. The course is offered on demand. Prerequisites: FLFR 215, 221.

FLFR 424 Twentieth Century French Literature (3)

This course surveys the significant writers of this century, including Proust, Gide, Colette, Sartre, Camus, and Beckett. The course is offered on demand. Prerequisites: FLFR 215, 221.

FLFR 425 Seventeenth Century French Literature (3)

This course includes readings from Corneille, Racine, Moliere, and other representative writers of the century, as well as supplementary readings and reports on historical backgrounds. The course is offered on demand. Prerequisites: FLFR 215, 221.

FLFR 426 Modern French Drama (3)

This course surveys the French Theatre from the late 19th century to the present. It includes a study of various dramatic forms as seen in the reading of significant plays. The course is offered on demand. Prerequisites: FLFR 215, 221.

FLFR 485 Independent Study (semester hours to be arranged)

FLFR 495 Seminar (3)

German

FLGR 116 GE: German I (3)

This is a foundation course designed for the beginning student. It includes the study of grammar and reading materials and emphasizes social and cultural values. Use of the language laboratory as required by the instructor. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLGR 117 GE: German II (3)

This is a continuation of German I. Its purpose is to further reinforce previously acquired basic language skills. Use of the language laboratory as required by the instructor. Prerequisite: FLGR 116 or equivalent of one semester of college-level study, or no more than 2-3 years combined total of junior high/high school language.

FLGR 120 GE: German Masterpieces in Translation (3)

Readings in English translation may include works by Kafka, Mann, Hesse, Brecht, and others. This is a general education course open to all students except German majors. No prerequisite.

FLGR 214 GE: German III (3)

This is an intermediate level course designed to meet the needs of students who are interested in reviewing German grammar. Students will practice patterns of grammatical structures both orally and in written exercises. Prerequisites: FLGR 117, or 4 years of high school German.

FLGR 215 GE: German IV (3)

This is a continuation of the German III course. The course is designed to further develop skills already learned as well as to introduce grammatical concepts of a more complex nature. Prerequisite: FLGR 214 or equivalent high school preparation.

FLGR 221 Reading German (3)

This is an intermediate level course designed to meet the needs of students who are interested in learning to read German. Students will develop both active and passive vocabulary through reading materials, which are graded as to level of difficulty. Prerequisite: FLGR 215 or equivalent.

FLGR 231 GE: German for Travelers (3)

This is an intermediate language course designed for the student who wishes to acquire conversational skills, which will enable the student to travel more efficiently and with greater language ease in German-speaking countries. Prerequisites: FLGR 116 and 117, or equivalent.

FLGR 235 Listening/Speaking German (3)

This is an intermediate course designed to develop the listening/speaking skills in the target language. The exercises will include conversations, commercials, and formal speeches. Students will be able to distinguish between formal and colloquial language. Prerequisite: FLGR 215 or equivalent.

FLGR 251 Translation: German (3)

This is an intermediate course designed to develop the facility of translation into English with texts, which are graded as to level of difficulty. Readings may include several modern short stories, current newspaper articles, magazine articles, and excerpts from various texts. Offered on demand. Prerequisite: FLGR 215 or equivalent.

FLGR 290 Special Topics (3) (Semester hours arranged)

These courses are designed to meet specific needs of students. Such courses are offered on a trial basis to determine the demand for and value of introducing them as part of the curriculum.

FLGR 315 German Grammar and Composition (3)

This course is a thorough review of grammar with exercises in composition. Offered on demand. Prerequisite: FLGR 215 or equivalent.

FLGR 336 German Oral Practice (3)

This course is designed to help the student attain fluency in German. It includes the presentation, discussion, and criticism of timed oral reports on a wide variety of subjects, memorization of prose and poetry for improving diction, and individual use of the language laboratory. The class is limited to 12 students and is offered on demand. Prerequisite: FLGR 235.

Italian

FLIT 116 GE: Italian I (3)

This is a foundation course in elementary Italian. It will emphasize the development of conversational skills and the study of basic language structures within a cultural context. Use of the language lab as determined by the instructor will be required. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLIT 117 GE: Italian II (3)

This is a continuation of Italian I. Its purpose is to further reinforce previously acquired basic language skills. Use of the language lab as required by the instructor will be required. Prerequisites: FLIT 116

Latin

FLLN 116 GE: Latin I (3)

This is a foundation course designed for the beginning student. It includes the study of grammar and reading materials and emphasizes social and cultural values. Use of the language laboratory as required by the instructor. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLLN 117 GE: Latin II (3)

This is a continuation of Latin I. Its purpose is to further reinforce previously acquired basic language skills. Use of the language laboratory as required by the instructor. Prerequisite: FLLN 116 or equivalent of one semester of college-level study, or no more than 2-3 years combined total of junior high/high school language.

FLLN 221 Reading Latin (3)

This is an intermediate level course designed to develop reading skills in Latin while exploring the fundamental themes and remarkable diversity of Roman literary culture. A sequence of graded readings will include selections from Caesar, Cicero, Catullus, Ovid, and Virgil. Prerequisite: FLLN 117 or equivalent.

Portuguese

FLPG 116 GE: Portuguese I (3)

This is a foundation course in elementary Portuguese. Emphasis will be placed on oral proficiency, the structure of the language, and the variety of its cultural contexts throughout the world. Multimedia resources from the Language Learning Center will supplement course materials. Prerequisites: Students with no previous study of the language, or no more than one year of previous study, will be admitted.

FLPG 117 GE: Portuguese II (3)

This course completes the first-year introduction to Portuguese, providing students with the knowledge and skills to function with elementary fluency in the language. Emphasis will be placed on oral proficiency, the structure of the language, and the variety of its cultural contexts throughout the world. Multimedia resources from the Language Learning Center will supplement course materials. Prerequisites: FLPG 116 or the equivalent of one semester of college-level study, or no more than 2-3 years combined total of junior high/high school language.

Russian

FLRU 116 GE: Russian I (3)

This is a foundation course designed for the beginning student. It includes the study of grammar and reading materials and emphasizes social and cultural values. Use of the language laboratory as required by the instructor. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLRU 117 GE: Russian II (3)

This is a continuation of Russian I. Its purpose is to further reinforce previously acquired basic language skills. Use of the language laboratory as required by the instructor. Prerequisite: FLRU 116 or equivalent of one semester of college-level study, or no more than 2-3 years combined total of junior high/high school language.

FLRU 120 GE: Masterpieces of Russian Literature in Translation (3)

This General Education course will introduce students to the extraordinary diversity and visionary depth of Russian literature within its historical context. Readings will be drawn from representative 19th and 20th century authors, including Pushkin, Dostoevsky, Tolstoy, Chekhov and Solzhenitsyn. Brief writing assignments will be required.

Spanish

FLSP 116 GE: Spanish I (3)

This is a foundation course designed for the beginning student. It includes the study of grammar and reading materials and emphasizes social and cultural values. Use of the language laboratory as required by the instructor. Prerequisites: Students with no previous study of the language, or no more than 1 year of previous study, will be admitted.

FLSP 117 GE: Spanish II (3)

This is a continuation of Spanish I. Its purpose is to further reinforce previously acquired basic language skills. Use of the language laboratory as required by the instructor. Prerequisite: FLSP 116 or equivalent of one semester of college-level study, or no more than 2-3 years combined total of junior high/high school language.

FLSP 120 GE: Spanish Masterpieces in Translation (3)

This course is designed for non-Spanish majors in which English translations of Peninsular and Latin American literature are read and discussed. Attention is given to cultural understanding and to the interrelationships of literary works. The course is offered on demand.

FLSP 143 GE: Spanish Language and Culture Through Media (3)

This course is designed to develop an awareness and understanding of the differences between the cultures of the Spanish-speaking peoples and that of the student. These objectives are met through the use of media, including slides, films, filmstrips, and recordings. This course is open to all students except Spanish majors. The course is conducted in English and offered on demand.

FLSP 214 GE: Spanish III (3)

This is an intermediate level course designed to meet the needs of students who are interested in reviewing Spanish grammar. Students will practice patterns of grammatical structures both orally and in written exercises. Prerequisites: FLSP 117, or 4 years of high school Spanish.

FLSP 215 GE: Spanish IV (3)

This is a continuation of the Spanish III course. The course is designed to further develop skills already learned, as well as to introduce grammatical concepts of a more complex nature. Prerequisite: FLSP 214 or equivalent high school preparation.

FLSP 221 Reading Spanish (3)

This is an intermediate level course designed to meet the needs of students who are interested in learning to read Spanish. Students will develop both active and passive vocabulary through reading materials which are graded as to level of difficulty. Prerequisite: FLSP 215 or equivalent.

FLSP 231 GE: Spanish for Travelers (3)

This is an intermediate language course designed for the student who wishes to acquire conversational skills which will enable him to travel more efficiently and with greater language ease in Spanish-speaking countries. Prerequisites: FLSP 116 and 117, or equivalent.

FLSP 233 Conversational Spanish for Health Services (3)

Practical situations will be simulated in the classroom to provide individuals with basic conversational skills in Spanish in order to communicate with Spanish-speaking patients. Students will learn dialogues based upon typical hospital situations, i.e., parts of the body, useful phrases, and questions for testing, diagnosis, and treatment procedures. Students will also learn to respond more effectively to the needs and requests of the patient. The course may not be counted toward the major in Spanish. Prerequisites: FLSP 116 and 117, or high school equivalent.

FLSP 234 Conversational Spanish for Social Services (3)

Practical situations will be simulated in the classroom to provide opportunities for developing conversational skills useful for personnel in social services (i.e., criminal justice administration and social work). The focus will be on appropriate vocabulary, analysis of native mores, expectations of the U.S. system, and other areas that will promote Spanish communication between social service personnel and people of Spanish-speaking backgrounds. The course may not be counted toward the major in Spanish. Prerequisites: FLSP 116 and 117, or high school equivalent.

FLSP 235 Listening/Speaking Spanish (3)

This is an intermediate course designed to develop the listening/speaking skills in the target language. The exercises will include conversations, commercials, and formal speeches. Students will be able to distinguish between formal and colloquial language. Prerequisite: FLSP 215 or equivalent.

FLSP 251 Translation: Spanish (3)

This is an intermediate course designed to develop the facility of translation into English with texts which are graded as to level of difficulty. Readings include current newspaper articles, magazine articles, and excerpts from various texts. Offered on demand. Prerequisite: FLSP 215 or equivalent.

FLSP 290 Special Topics (3) (Semester hours arranged)

These courses are designed to meet specific needs of students. Such courses are offered on a trial basis to determine the demand for and value of introducing them as part of the college curriculum.

FLSP 305 Spanish and Latin American Culture through Cinema (3)

This course is designed to give students the opportunity to examine and appreciate the rich and diverse cultures of Spain, Latin America and Latinos in the United States through films, videos and selected readings, as well as to improve their formal knowledge of the language. The course will combine lecture, film viewing and discussion in each class. Prerequisite: FLSP 235.

FLSP 307 Spanish for Business (3)

This course provides students who have at least intermediate-level Spanish fluency the opportunity to deepen their language skills via focused study of the business environments of Latin America, Spain and the U.S. Latino communities. Students will practice essential business vocabulary; engage in situational conversation for various commercial sectors; write effective business documents; and learn to communicate appropriately in cross-cultural business settings. Prerequisite: FLSP 117 or equivalent.

FLSP 310 A Critical Approach to Spanish Literature (3)

This is a course designed to acquaint Spanish students, advancing from skill courses in communication to liberated reading, with basic elements of literary appreciation and methods of literary evaluation. Prerequisite: FLSP 221.

FLSP 315 Spanish Grammar and Composition (3)

This course is a thorough and systematic survey of Spanish grammar. Composition themes will be based on important phases of Spanish life and culture. Prerequisite: FLSP 215 or equivalent.

FLSP 336 Spanish Oral Practice (3)

This course is designed to help the student attain fluency in Spanish. It includes the presentation, discussion, and criticism of timed oral reports on a wide variety of subjects, as well as one-to-one student-teacher conferences and individual sessions in the language laboratory. This class is limited to 12 students and is offered on demand. Prerequisite: FLSP 235.

FLSP 401 Readings in Spanish Literature (3)

Students undertake analytical readings of selected works of Spanish literature and engage in critical discussions of them. The course proceeds chronologically, beginning with a short introduction to the Latin roots of Castilian, and providing historical context for subsequent literary movements and writers as they are taken up. Each student will also engage in more focused research and writing on some aspects of the course material covered. Prerequisites: FLSP 310, 315 or 4 years of high school Spanish.

FLSP 402 Readings in Spanish-American Literature (3)

Students undertake analytical readings of selected works of Spanish-American literature and engage in critical discussions of them. The course proceeds chronologically, beginning with a short introduction to indigenous literary compositions, and providing historical context

for subsequent Spanish-language movements and writers as they are taken up. Each student will also engage in more focused research and writing on some aspect of the course material covered. Prerequisites: FLSP 215, 310 or 4 years of high school Spanish.

FLSP 410 Caribbean Literature and Culture (3)

This course examines the literary and social traditions of the Spanish-speaking Caribbean (Cuba, the Dominican Republic and Puerto Rico) within the context of the Caribbean basin. Emphasis is given to the major literary and social works from the Colonial period to the present. Taught in Spanish. Prerequisites for undergraduates: FLSP 310 and one of the following courses: FLSP 401, 402, 444, or 445.

FLSP 416 Spanish Language for Native Speakers (3)

This course is designed for native speakers of Spanish who want to improve their formal knowledge of the language. At the undergraduate level it is to be taken in place of FLSP 315 (Spanish Grammar and Composition). Admissions will be determined by Spanish faculty. Prerequisites: Native-speaking ability as determined by the Department and FLSP 310 and 336.

FLSP 421 Spanish Golden Age Literature (3)

This course includes reading and analysis of key literary works of the Spanish Golden Age, with contextual study of medieval and humanist influences upon authors of that period. Prerequisites: FLSP 310, 315.

FLSP 423 Mexican Literature (3)

This course is an intensive study of prose literature which has appeared in Mexico since the Revolution. Reading and discussion of major works by Paz, Rulfo, Azuela, Yanez, Fuentes, and Ruben Romero are included. This course is offered on demand. Prerequisites: FLSP 310.

FLSP 425 Latin American Short Story (3)

This course examines the development of the modern short story in Latin America from its nineteenth-century roots through several twentieth-century phases and into its present forms. Relevant theory and sociocultural context will accompany the study of this literature. Taught in Spanish.

Prerequisites: FLSP 310 and one of the following survey courses: FLSP 402, 444, 445.

FLSP 426 Twentieth Century Spanish Drama (3)

This course is a study of the modern drama including the works of Frederico Garcia Lorca and Alejandro Casona, as well as Post-War dramatists. The course is offered on demand. Prerequisites: FLSP 310.

FLSP 427 The Representative Latin American Novel (3)

This course involves reading and analyzing significant Latin American novels which reflect social, political, intellectual, and cultural developments from the colonial period to the present. The course is offered on demand. Prerequisites: FLSP 310.

FLSP 428 Twentieth Century Spanish Literature (3)

This course is an in-depth study of representative works of prose and poetry from the generation of 1898 to the present. The course is offered on demand. Prerequisites: FLSP 310.

FLSP 430 Modernismo: Prose and Poetry (3)

This course is a study of the writings of the key figures of the Modernismo movement in Latin America and their impact on Hispanic literature in Europe and the Americas. The scope is multinational, and it includes the various generations that constitute this movement. This course is taught in Spanish. Prerequisites: FLSP 310 or 4 years of high school Spanish, FLSP 315

FLSP 435 Afro-Latin American Literature (3)

This course examines the literature and cultural context of peoples of African descent in Latin American societies from the end of the colonial period to the present day. Through critical readings of literary texts by and about Afro-Latin Americans, with supplementary historical documentation and film, students explore the experiences of members of this group and learn how they have been represented in Latin America. Prerequities: FLSP 310 or equivalent or one of the advanced language courses or a language proficiency course (EDC).

FLSP 440 Women and Society in the Literature of Spain and Latin America (3)

This course guides students through an analysis of the representation of female characters in the literature of Spain and Latin America from the sixteenth century to the present. The selected literature will be examined for its aesthetics, for its function within society and for the questions raised by it throughout history. Accompanying the literary readings will be contextual study that highlights the evolution of women's roles in society. Taught in Spanish. For undergraduate students the prerequisites: FLSP 310 and one of the following survey courses: FLSP 401, 402, 444, or 445.

FLSP 444 Cultural History of Spain

This course consists of selected readings and directed discussion on the cultural history of Spain from the pre Roman era to today. Cultural artifacts to be studied include literature, visual art, music and key historical documents. Each student will also engage in more focused research and writing on some aspect of the course material covered. Prerequisites: FLSP 215, 221 or equivalent.

FLSP 445 Cultural History of Latin America (3)

This course consists of selected readings and directed discussion on the cultural history of Latin America from the pre-contact era to today. Cultural artifacts to be studied include literature, visual art, music and key historical documents. Each student will also engage in more focused research and writing on some aspect of the course material covered. Prerequisites: FLSP 215, 221 or equivalent.

FLSP 450 U.S. Latino Literature and Culture (3)

This interdisciplinary course explores the presence, culture, literature and history of the Latino population in the US, through literary texts, film, media, newspapers and other cultural production. This course is offered in Spanish. Prerequisite: FLSP 215, 310 or their equivalents.

FLSP 485 Independent Study (semester hours to be arranged)

FLSP 495 Seminar (3)

This advanced level course will cover varied topics in Spanish and Spanish American literature and culture. Students will write a research paper and present an oral report. (In addition to presenting an in-depth oral report, graduate students will be required to submit a 15-page research paper in strict compliance with MLA guidelines, which must include at least three documented sources). Prerequisites: FLSP 310 and one additional 300/400 level class.

General Science

College of Arts and Sciences

The Faculty of Science
Gessner Science Hall, Room 107
570-422-3341.....www.esu.edu/physics

About the Program
Two programs are available in General Science.The Bachelor of Science in General Science (Secondary Education) is designed to prepare students for careers teaching science in secondary schools. The program of study is similar to the other secondary education programs in science except that it covers all four fields of science (biology, chemistry, earth and space science, and physics). The Bachelor of Arts in General Science provides a background in general science for use in a business, educational, writing or computer science setting.

Bachelor of Science in General Science - Secondary Education

Are you interested in...
- Sharing your love of science with others
- Encouraging students to discover the world around them
- Helping students begin careers in science

Choose General Science — Secondary Education at ESU
- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty
- Partnerships with area school districts

Is General Science - Secondary Education a career path for me?

Career Potential
- Junior High School Life Science Teacher
- Junior High School Physical Science Teacher
- Junior High School Earth Science Teacher
- High School General Science Teacher

Career Settings
- Public High School
- Private High School or Preparatory Academy

More detailed career information is available from the department.

52 semester hours

Coordinator: Professor Robert Cohen, Department of Physics

- **Required major courses:** BIOL 114, 115; CHEM 121, 123, 124, 126; PHYS 121, 122, 131 (or 161), 132 (or 162), 495; GEOG 120 (or 121), 220; 15 credits (200-level or above) chosen with the consent of the adviser in BIOL, CHEM and PHYS, with a minimum of three credits in each discipline. Nine of these 15 credits must be 300-level or above.
- **Corequisite courses:** CPSC 101; MATH 110, 140 (or 131).
- **Required professional education courses:** MCOM 262; PSED 161, 242, 346, 420, 421, 430, 431; REED 321, PHYS 499.
- **Recommended courses:** PHYS 486; CMST 111.
- **Additional requirements:**
  - At least nine credits of required courses (not corequisites), 300-level or above, must be completed at ESU.
  - A minimum of a "C" must be attained in each of the required courses.
  - The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section *The College of Education* in this catalog for specific requirements for admission into teacher education programs.
  - Please see the university requirements in this catalog.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education.

ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

PSED 161: Foundations of Education	3
GEOG 121 GE: Physical Geology*	3
BIOL 114 GE: Introductory Biology I	4
General Education Elective - Group A**	3
ENGL 103: English Composition	3
Subtotal	**16**

Spring

CPSC 101 GE: PC's and Their Uses in Science	3
MATH 110 GE: General Statistics	3
BIOL 115 GE: Introductory Biology II	4
General Education Elective - Group A	3
General Education Elective - Group C	3
Subtotal	**16**

Sophomore Year

Fall

PHYS 121 GE: Astronomy I: Sky and Solar System	3
MATH 140 GE: Calculus I***	4
PSED 242: Educational Psychology	3
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
FIT Elective	1
Subtotal	**15**

Spring

PHYS 122 GE: Astronomy II: Stars and Galaxies	3
General Education Elective - Group C**	3
MCOM 262 Educational Communication and Technology	3
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
General Education Elective - Group A (2nd English)	3
Subtotal	**16**

Junior Year

Fall

REED 321: Teaching in Reading in Secondary School	3
PHYS 131 GE: Fundamental Physics I	4
GEOG 220 GE: Meteorology	3
General Education Elective - Group A	3
General Education Elective - Group C	3
Subtotal	**16**

Spring

PSED 420: Seminar in Secondary Education I	3
PHYS 132 GE: Fundamental Physics II	4
Chemistry Elective	3
Biology Elective	3
Upper Level Science Elective	3
Subtotal	**16**

Senior Year

Fall

PSED 421: Seminar in Secondary Education II	2
PSED 446: Teaching of Science in the Secondary Schools	3
Upper-Level Science Elective	3
Physics Elective	3
General Education Elective - Group A	3
FIT Elective	1
PHYS 495: Seminar	1
Subtotal	**16**

Spring

PSED 430: Student Teaching in Secondary Education/Middle School/Junior High School	6
PSED 431: Student Teaching in Secondary Education/Senior High School	6
PHYS 499: Student Teaching Internship	1
Subtotal	**13**
Total Credits	**124**

**GEOG 120 (Physical Geography) can be taken in place of GEOG 121 (Physical Geology).*

***MCOM 111 (Speech Communication) is recommended.*

***If MATH 135 (Pre-Calculus) is necessary, it should be scheduled during the preceding summer.*

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact Program Coordinator Robert Cohen at 570-422-3428 or via e-mail at rcohen@po-box.esu.edu.

Bachelor of Arts in General Science

Are you interested in...

- Biology
- Chemistry
- Earth Science
- Physics

Choose General Science — Secondary Education at ESU

- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty
- Partnerships with area school districts

Is General Science - Secondary Education a career path for me?

Career Potential

- Science equipment specialist
- Science writing
- Science data analysis

Career Settings

- Local, state and government agencies
- National and private laboratories
- Equipment and technical companies

More detailed career information is available from the department.

Program Features

52 Semester Hours

- **Required major courses:** BIOL 114, 115; CHEM 121, 123, 124, 126; PHYS 121, 122, 131 (or 161), 132 (or 162), 495; GEOG 120 (or 121), 220; 15 credits (200-level or above) chosen with the consent of the adviser in BIOL, CHEM and PHYS, with a minimum of three credits in each discipline. Nine of these 15 credits must be 300-level or above.
- **Corequisite courses:** CPSC 101; MATH 110, 140 (or 131).
- **Additional requirements:**
- At least 9 credits of required courses (not corequisites), 300-level or above, must be completed at ESU.
- A minimum of a "C" must be attained in each of the required courses.
- The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section *The College of Education* in the Undergraduate catalog for specific requirements for admission into teacher education programs.

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
GEOG 121 GE: Physical Geology*	3
BIOL 114 GE: Introductory Biology I	4
General Education Elective - Group A	3
General Education Elective - Group C	3
Subtotal	**16**

Spring

CPSC 101 GE: PC's and Their Uses in Science	3
MATH 110 GE: General Statistics	3
MATH 135 GE: Pre- Calculus (if needed*)	3
BIOL 115 GE: Introductory Biology II	4
General Education Elective - Group A	3
Subtotal	**16**

Sophomore Year

Fall

PHYS 121 GE: Astronomy I: Sky and Solar System	3
MATH 140 GE: Calculus I	4
General Education Elective - Group C	3
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
FIT Elective	1
Subtotal	**15**

Spring

PHYS 122 GE: Astronomy II: Stars and Galaxies	3
FIT Elective	1
General Education Elective - Group A	3
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
General Education Elective - Group A	3
Subtotal	**14**

Junior Year

Fall

PHYS 131 GE: Fundamental Physics I	4
GEOG 220 GE: Meteorology	3
Free Elective	3
Free Elective	3
General Education Elective - Group C	3
Subtotal	**16**

Spring

PHYS 132 GE: Fundamental Physics II	4
Free Elective	3
Free Elective	3
Free Elective	2
Upper Level Science Elective	3
Subtotal	**15**

Senior Year

Fall

Chemistry Elective	3
Biology Elective	3
Free Elective	3
Free Elective	3
General Education Elective - Group A	3
Subtotal	**15**

Spring

PHYS 495: Seminar	1
Physics Elective	3
Free Elective	3
Free Elective	3
Upper-Level Science Elective	3
Subtotal	**13**
Total Credits	**120**

**GEOG 120 (Physical Geography) can be taken in place of GEOG 121 (Physical Geology).*

For more information, contact Program Coordinator Robert Cohen at 570-422-3428 or via e-mail at rcohen@po-box.esu.edu.

Faculty

Professors:

David Buckley (dbuckley@po-box.esu.edu)

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Associate Professors:

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Mark Stewart (mstewart@po-box.esu.edu)

Geography

College of Arts and Sciences

The Faculty of Social Sciences
Science and Technology Center, Room 232
570-422-3285.....www.esu.edu/geog

Faculty

Associate Professors:
Jeffrey Hardy (jhardy@po-box.esu.edu)

Shixiong Hu, Chair (shu@po-box.esu.edu)

Geography Minor

18 semester hours

Required courses: GEOG 120 and five courses in Group A or Group B

A. Physical Geography

- Required courses: Three from the following physical geography courses (GEOG 121, 220, 320,321,422); GEOG 340 or GEOG 341; and one of the following seminar or field-based courses (GEOG 440, 486, 495, BIOL 484, or BIOM 460).

B. Cultural Geography

- Required courses: GEOG 110; one regional geography course (GEOG 130, 230, 231, 232, 234, 330, 333); one human geography course (GEOG 210, 212, 310, 311); GEOG 340 or GEOG 341; and one of the following seminar or field-based courses (GEOG 440, 486, or 495).

Course Descriptions

GEOG 110 GE: Cultural Geography (3)

This course offers a systematic approach to the understanding of human patterns on the Earth's surface. The course analyzes the form, cause, and interrelationship of economic, political, social, cultural, and urban landscapes.

GEOG 120 GE: Physical Geography (3)

This course is a concentrated study of the physical aspects of the environment. Emphasis is placed on understanding the Earth and its planetary relations, the fundamentals of weather, climate, soils, and landforms, and the principles of map projections and interpretations. The course is of particular interest to Earth Science majors.

GEOG 121 GE: Physical Geology (3)

This course focuses on a description and interpretation of the Earth's rock and mineral formations and study of their constant change under the influence of streams, wind, glaciers, volcanism, and other forces.

GEOG 130 GE: World Regional Geography (3)

This course is a regional overview of the countries of the world combined with an introduction to geographic methodology. The course investigates the interaction between physical phenomena and human activity, the distribution of economic development, and the uniqueness of the world's regions.

GEOG 210 GE: Economic Geography (3)

This course examines and analyzes the spatial patterns of primary, secondary, and tertiary economic activities around the world. The problems of these economies and their relationship to the developing world are emphasized as are the problems and methods of measurement of the developing world. Prerequisite: GEOG 110.

GEOG 212 GE: Political Geography (3)

This course is a systematic treatment of the geographic patterns of political phenomena at the local, national and multinational levels with an emphasis on territorial control, definition, integrity, and diffusion. Prerequisite: GEOG 110.

GEOG 220 GE: Meteorology (3)

This course is a descriptive study of the atmosphere providing the student an opportunity to understand the underlying principles of atmospheric change, to become familiar with weather instruments, to observe and record weather data, and to read and interpret weather maps. Prerequisite: GEOG 120.

GEOG 230 GE: Geography of the United States and Canada (3)

This course is the study of the geographic regions of the United States and Canada. Physiography, climate, resources, and industry are reviewed and applied to the various provinces of North America. Special emphasis is placed on the physical and cultural differences among regions.

GEOG 231 GE: Historical Geography of the United States (3)

This course is a study of the spatial patterns of the historical development of the United States from Pre-Columbian times to the present with emphasis on regional development of various cultural phenomena. Prerequisite: GEOG 110.

GEOG 232 GE: Geography of Africa (3)

This course is a regional geographical study of the African continent with a primary focus on Sub-Saharan Africa. The spatial relationships between the physical environment, cultures, economy, and politics of this region will be examined in this course. Prerequisite: GEOG 110 or 130.

GEOG 234 GE: Geography of Europe (3)

The course is a regional analysis of Europe designed to develop spatial relationships underlying economic problems, land utilization, boundary disputes, and dominant international issues. Prerequisite: GEOG 110.

GEOG 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the curriculum.

GEOG 310 GE: Population Geography (3)

This course examines the growth, diffusion, and distribution of population throughout the world; it forms a bridge between economic and cultural geography as a means for exploring ideas and methods concerning a problem of increasing interest. Prerequisite: GEOG 110.

GEOG 311 GE: Urban Geography (3)

This course is a spatial treatment of the origins of urban growth, the economic, social and technological evolution of urban centers, and the design and functions of cities. Prerequisite: GEOG 110.

GEOG 320 GE: Climatology (3)

This course is a review of climate controls and the regional characteristics of climate and the relation of climate to human activities. Prerequisite: GEOG 120.

GEOG 321 GE: Geomorphology (3)

This course is an advanced treatment of the processes that shape the Earth's surface and the classification of their resulting landforms; it includes a study of the historical development of major theories through selected reading from classic works. Special attention is given to evolution of landscapes in the geological provinces of North America and other world areas. Prerequisite: GEOG 121.

GEOG 330 GE: Geography of Eastern Asia (3)

This course is an intensive investigation of geographic, economic and political regions of eastern Asia with an emphasis on geographic background, natural resources, land utilization, population concentrations, and industrialization of countries. Prerequisite: GEOG 110.

GEOG 333 GE: The Geography of Australasia (3)

This course is a regional geographic study of Australia and the countries of the southern Pacific. The course will emphasize distinctive regional characteristics, physical geographic phenomena, exploration, and the diffusion of cultural geographic phenomena. Prerequisite: GEOG 110.

GEOG 340 Cartography (3)

This course focuses on the use and interpretation of various map projections from a geographical point of view, the history of mapping, development of map symbols and scales, the construction of selected projections, and the construction and use of maps and diagrams. Prerequisite: GEOG 120.

GEOG 341 Geographic Information Systems (3)

The course will examine the basics of Geographic Information System (GIS) technology using the Arc View program. Students will learn the principles of GIS and produce simple maps from a variety of data sources. Prerequisite: GEOG 110 or 120.

GEOG 421 Marine Geology (3)

This course is an analysis of the structural and sedimentary environment of the continental shelf, slope, and ocean basin. The techniques and findings of recent geophysical and geochemical research are used to gain an insight into the genesis of ocean basins and their features. Emphasis is on laboratory and field problems. Offered periodically during summer sessions at the Marine Science field station at Wallops Island, Virginia. Prerequisites: GEOG 120, 121.

GEOG 422 Watershed Hydrology (3)

This course is designed to provide an introduction to different components of the hydrologic cycle at the watershed scale. The emphases will be on surface processes and watershed responses to perturbations such as climate change and land use/land cover change. This course will cover the fundamental principles of hydrology and their applied uses. The ultimate goal of this course is to help students understand and learn how to mitigate water-related environmental problems, such as floods, droughts and water pollution. Prerequisites: MATH 110; GEOG 120 or 121; GEOG 220 or BIOL 210.

GEOG 440 Field Techniques in Geography (3)

This course is an introduction to methods of collecting field data; it includes recognition of features of the physical or cultural environment or a combination of the two, interview procedures, field mapping, preparation of geographical reports and finished maps based on field work, and experience in use of field equipment and aerial photographs. Emphasis on cultural or physical geography depends on class interest. Prerequisites: GEOG 110, 120 and 340.

GEOG 485 Independent Study (Semester hours arranged)

This course, offered by a faculty member to a student, does not properly fall within the scope of other courses listed in the catalog. Students will receive a reading list which will be accomplished on a set schedule and will meet periodically with the instructor for discussion and examination. The student will also prepare a paper or complete an exercise or workbook. Evaluation will be from discussion, examinations, papers, and/or exercises.

GEOG 486 Field Experiences and Internship (Semester hours arranged)

GEOG 495 Seminar (3)

This course is an in-depth study of the history and philosophy of geography, an introduction to professional associations and their periodicals, and presentations of student research papers based on library or fieldwork. Prerequisites: GEOG 110, 120, 340.

Gerontology Certificate Program

College of Health Sciences

The Faculty of Health Sciences
www.esu.edu/sppa

Coordinator:
Elaine Shuey, Speech-Language Pathology (eshuey@po-box.esu.edu)

About the Program

The primary focus of this interdisciplinary program is to provide concentrated knowledge in gerontology to supplement the course work completed in the student's academic major. The Gerontology Program will prepare students to work directly or indirectly with older adults. The program is open to students in any major.

Gerontology Interdisciplinary Program

21 semester hours

Required courses (select 3):

- BIOL 420/520 - Biology of Aging
- PSY 225 - Lifespan Developmental Psychology
- SOC 331 - Sociology of Aging and the Life Course
- A six-semester hour internship in gerontology related to the student's major.

Electives (select 2):

- HLTH 340 - Nutrition for Healthful Living
- HLTH 432 - Death and Dying – Implications for Health
- HLTH 444/544 - Health Promotion Programs and Aging
- HLTH 530 - Nutrition Across the Lifespan
- HLTH 532 - Death and Dying Education
- EXSC 445 - Seminar in Adult Fitness Program
- EXSC 560 - Physical Activity Across the Lifespan
- NURS 304 - Gerontological Nursing
- RECR 261 - Leisure and Aging
- SPPA 321 - Communication and Aging

Please see the university requirements in this catalog.

Health Studies

College of Health Sciences

The Faculty of Health Sciences
The DeNike Center for Human Services, Room 249
570-422-3702.....www.esu.edu/hlth

About the Program

Through teaching, research and service the Department of Health Studies is dedicated to preparing exemplary practitioners who will function as leaders in our global society affecting changes to eliminate health disparities and improve societal health.

The Department of Health Studies is an active partner in the economic and community development of Northeast Pennsylvania, and a recognized regional center of academic excellence in Public Health, Health Education and Health Teacher Preparation.

The Department of Health Studies at East Stroudsburg University provides diverse opportunities for students interested in careers in both the healthcare and education sector. The coursework, as well as the hands on experiences built into the curriculum provide a solid foundation for students wishing to either start a career after graduating or going on to complete a graduate degree.

Recent graduates of our program:

- Have careers as healthcare administrators and health educators in hospitals, nursing homes, government agencies, non-profits, schools, universities, pharmaceutical companies, or
- Are enrolled in master or doctoral degrees programs in public health, health education, health policy and/or health administration.

The department offers three baccalaureate degree programs, one minor and one teacher certification program. These include a Bachelor of Science in Public Health with a concentration in Community Health; a Bachelor of Science in Public Health with a concentration in Health Services Administration; and a Bachelor of Science in Health Education with a concentration in School Health. An 18-credit minor in Health Services Administration is offered as well as a 33 credit Health Education teacher certification program.

The undergraduate and graduate curriculum provides students with the opportunity to apply theory with practice and to work side-by-side with both their academic faculty and field-based professionals. The programs within the department are accredited by the National Council for Accreditation of Teacher Education (NCATE) and the Council for Education of Public Health (CEPH).

The course requirements and course descriptions for these programs are listed below, followed by a suggested plan for completing the three degree(s) in eight semesters.

Bachelor of Science in Health Education - Concentration: School Health (Teacher Certification)

About the Program

Through teaching, research and service the Department of Health Studies is dedicated to preparing exemplary practitioners who will function as leaders in our global society affecting changes to eliminate health disparities and improve societal health.

The Department of Health Studies at East Stroudsburg University is an active partner in the economic and community development of Northeast Pennsylvania, and a recognized regional center of academic excellence in Public Health, Health Education and Health Teacher Preparation.

The Department of Health Studies provides diverse opportunities for students interested in careers in both the health care and education sector. The coursework as well as the hands-on experiences built into the curriculum provide a solid foundation for students wishing to either start a career after graduating or going on to complete a graduate degree.

Degree Options

Bachelor of Science in Health Education - A 120 credit degree program with 42 credits that prepares candidates for a health education career as a teacher in elementary or secondary schools.

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

Are you interested in...

- Implementing units of instruction that assist children and youth to engage in positive healthy behaviors
- Engaging in the opportunity to promote and implement a coordinated school health program
- A program that is part of the dual certification for Health and Physical Education

Choose Health Education at ESU

- Qualified, experienced faculty
- Clinical experiences/student teaching

Is Health Education a career path for me?

Career Potential and Settings

- The School Health Program is designed to provide training for a health education career as a teacher in the elementary or secondary schools. The program is also advisable for careers as health coordinators for elementary or secondary schools or as health instructors in school related health centers.
- The Health Education Teacher Certification program has been approved by the Pennsylvania Department of Education as an approved K-12 certification. Also the program has attained approval status from The American Association for Health Education (AAHE) and the National Council for Accreditation of Teacher Education (NCATE) accreditation as part of the Teacher Education Unit at ESU.

More detailed career information is available from the department.

44 semester hours

For the Health and Physical Education certification requiring a dual major see Physical Education Teacher Education.

The School Health Program is designed to provide training for a health education career as a teacher in the elementary or secondary schools. The program is also advisable for careers as health coordinators for elementary or secondary schools or as health instructors in school related health centers.

- **Required major courses:** HLTH 210, 220, 230, 240, 310, 341, 350, 356, 365, 431, 461, and 462; Five additional credits from HLTH 250, 290, 340, 355, 370, 405, 406, 408, 440, 442, 444, 485
- **Corequisite courses:** BIOL 111, 112 (112 is waived for dual majors, majoring in Physical Education and Health), PSED 150, 250 CMST 111, PSY 100, SOC 100, REED 350.
- Three credits in English Literature course; Six credits in Mathematic
- Please see the university requirements in this catalog.

The student must complete the following requirements for admission into the health education teacher certification program:

1. **Initial Requirements** - Pass 60 credits including: 1) BIOL 111, BIOL 112, HLTH 210, 220, 230, 240. 2) Complete 6 credits MATH and 6 credits ENGL. 3) Pass Praxis Level I: Reading, Writing, and Math. 4) Demonstrate successful clearance of Act 34 Act 114 and Act 151. 5) Obtain membership to a health education professional organization.
2. **Interview Process for Admission** - Between 45-60 Credits: 1) All Initial Requirements must be complete. 2) Participate in an interview with School Health Teacher Education faculty and present the admission criteria portfolio (including: Praxis I results, Act 34, Act 114 and Act 151, HLTH 240 certification cards, current transcript, Eligibility Checklist, Membership from professional organization).
3. **Continued Enrollment** - 1) Pass Praxis II: Fundamental Subjects: Content Knowledge prior to HLTH 431. 2) Eligibility for Student Teaching (2.8 QPA, complete all GE, HLTH and PSED courses, and successful Act 34 and 151 Act 114 TB Test clearances).
4. **Certification and Graduation Standards** - Pass HLTH 431 (with a grade of C or better). 2) Satisfy degree and program requirements including a 3.0 QPA in HLTH and overall. 3) Pass Praxis II: Health Content Knowledge. 4) Complete certification application and immigration form. 5) Complete Act 34, Act 114, and Act 151 Clearances for employment.

The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section The College of Education in this catalog for specific requirements for admission into teacher education programs.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education.

All teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
BIOL 111 GE: Human Anatomy & Physiology I	4
HLTH 210: Foundations of Health Science	3
MATH GE (100/101)	3
General Education Elective	3
Subtotal	**16**

Spring

ENGL 1... English Literature	3
BIOL 112 GE: Human Anatomy & Physiology II	4
HLTH 220: Personal and Consumer Health	3
PSED 150: Introduction to Teaching All Students	6
Fitness Elective	1
Subtotal	**17**

Sophomore Year

Fall

HLTH 230: Community Health	3
PSED 250: Psychology of Learners in Diverse Communities	3
PSY 100 GE: General Psychology	3
MATH 110 GE: General Statistics	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

HLTH 240: Health Emergencies	3
SOC 111 GE: Introduction to Sociology	3
CMST 111 GE: Speech Communications	3
General Education Electives	3
Elective	3
Subtotal	**15**

Junior Year

Fall

HLTH 341: Nutrition Education	1.5
HLTH 356: Drug Education	1.5
HLTH 310: Family Health	3
REED 350: Teaching Reading to Diverse Communities	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

HLTH 350: Promoting Emotional Well-Being	3
HLTH 365: School Health Program	3
General Education Elective	3
Health Electives	5
Electives	3
Subtotal	**17**

Senior Year

Fall

HLTH 461: Methods in Health Education	3
HLTH 462: Assessment in School Health Education	3
Elective	3
General Education Elective	3
Subtotal	**12**

Spring

HLTH 431: Student Teaching	12
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3702 or visit **www.esu.edu/hlth**

Health Education Teacher Certification

33 semester hours

This program is designed for the student seeking teacher certification in Health Education only.

Teacher certification in health is built into the school health concentration of the health education degree. Students in other disciplines may enroll in this program as an adjunct to their primary area of study.

The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section *The College of Education* in this catalog for specific requirements for admission into teacher education programs.

- **Required courses**: HLTH 210, 220, 230, 240, 310, 341, 350, 356, 365, 370, 430, 431 and 461.
- **Corequisite courses**: BIOL 111, 112 (112 is waived for dual majors, majoring In Physical Education and Health), PSED 161, 242, PSY 100, SOC 111, PSED 161, 242, CMST 111.
- English Literature course, Math 110 and MATH 100/101.
- **Note:** A full-time student teaching experience (HLTH 431) is required. A 2.80 quality point average is required in the major courses for approval to enroll in student teaching.

Health and Physical Education Dual Certification and Major

See Physical Education Teacher Education

Bachelor of Science in Public Health - Concentration: Community Health

About the Program

The Department of Health Studies degree programs provide students with an innovative curriculum to pursue a variety of career paths in the health field, as well as providing the foundation needed for future graduate studies. The health field is the second largest employer in the United States.

Community Health Educators are professionals who design, carry out and evaluate programs that help improve the quality of health within communities. The quality of health attained by communities is what in turn determines the society's overall quality of life.

The Community Health Education program prepares students for a rewarding service career that improves the health behavior and health outcomes of residents living in local communities, counties, as well as statewide.

The Community Health Education program also provides a solid foundation for those wishing to pursue graduate training in the public health sciences. The curriculum provides a solid foundation in assessing community needs, planning and implementing community-based health education and health promotion programs; program evaluation; and resource acquisition and development.

Career Opportunities

Employment opportunities in health education and promotion continue to expand due to the increasing emphasis on cost-effective approaches in early detection and prevention of maladaptive health behaviors and resulting disease.

Employment opportunities exist working with youth, families, and the growing number of senior citizens. Typical employment settings include community medical centers and hospitals, local and state departments of health, insurance companies, pharmaceuticals, nonprofit organizations (i.e., American Cancer Society), and other public health settings.

Are you interested in...

- Improving the quality of health within communities
- Preventing illness by educating communities
- A service career in health care

Choose Community Health Education at ESU

- Small class size
- Qualified, experienced faculty
- Practical internships

Is community health education a career path for me?

Career Potential

- Coordinator of community prevention programs
- Patient educator for disease management
- Trainers
- Community organizers
- Worklife-wellness specialists
- Wellness project managers
- Outreach workers
- Case managers
- Research associates
- Public health program managers

Career Settings

- Hospitals and service delivery organizations
- Local and state health departments
- Long-term care facilities
- Pharmaceutical firms
- Health insurance agencies
- Government entities (Centers for Disease Control, Health and Human Services, Departments of Health)
- Hospice and home health agencies
- Nonprofit organizations (American Cancer, Red Cross, United Way)
- Graduate schools in public health

More detailed career information is available from the department.

Bachelor of Science in Public Health - Concentration: Community Health

Program Features:

49 semester hours

- **Required major courses:** HLTH 210, 230, 260, 270, 280, 370, 386, 409, 440, 460, 470, 486; and 12 additional semester hours from HLTH 220, 240, 250, 290, 310, 340, 350, 355, 365, 380, 405, 406, 408, 421, 442, 444, 461, 485.
- **Corequisite courses:** BIOL 111, 112, CMST 111, CPSC 100, MATH 110, MCOM 262, PSY 100, SOC 111.
- **Note:** A full-time, 12-credit internship experience (HLTH 486) is required. Completion of all health education coursework and an overall quality point average of 2.50 and a quality point average of 2.50 within the major is required for approval to enroll in the internship.

Program Curriculum

The curriculum prepares students to take the Certified Health Education Specialists (CHES) examination. The CHES credential indicates that a Health Educator has achieved professional competency required in many employment settings.

The coursework prepares graduates to...

- Determine individual, organizational and community health education needs.
- Plan, develop, implement, manage and evaluate health education programs.
- Communicate health education needs.
- Develop coalitions.
- Advocate for community health issues.
- Train health educators.
- Employ a variety of educational methods and materials.

Internships

Students in the bachelor of science program have the opportunity to complete internships with community and public health agencies located in the Poconos, Lehigh Valley, and other organizations within Pennsylvania, as well as New Jersey. Some students also obtain internships in Washington, D.C., the Center for Disease Control (CDC) in Atlanta, and other locations nationally.

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

HLTH 210: Foundations of Health Science 3

CPSC 100 GE: Personal Computers and Their Uses	3
MATH 110 GE: General Statistics	3
CMST 111 GE: Speech Communications	3
BIOL 111 GE: Human Anatomy & Physiology I	4
Subtotal	**16**

Spring

HLTH 230: Community Health	3
BIOL 112 GE: Human Anatomy & Physiology II	4
PSY 100 GE: General Psychology	3
SOC 111 GE: Introduction to Sociology	3
General Education Elective	3
Subtotal	**16**

Sophomore Year

Fall

MCOM 262: Educational Communication and Technology	3
Health Elective 1	6
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

HLTH 260: Foundations of Epidemiology	1.5
HLTH 270: Environmental Determinants of Community Health	1.5
HLTH 280: Fundamentals of Health Administration	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**18**

Junior Year

Fall

HLTH 386: Pre-Practicum in Public Health Practice	3
HLTH 409: Health Counseling	1
HLTH 470: International Health Science	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

HLTH 370: Planning & Evaluation for Public Health Practice	3
HLTH 440: Modifying Health Behaviors	3
Health Elective 2	3
Health Elective 3	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

HLTH 460: Community Health Organization	3
Health Elective 4	3
General Education Elective	3
General Education Elective	3
Subtotal	12

Spring

HLTH 486: Field Experience & Internship	12
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3702 or visit **www.esu.edu/hlth**

Bachelor of Science in Public Health - Concentration: Health Services Administration

About the Program
If you are interested in a rewarding career that allows you to improve the lives of others while working in a rapidly changing field, you should consider a career in health administration.

The Health Department at East Stroudsburg University provides diverse opportunities for students interested in health administration. The curriculum and experiences also provide a solid foundation for students wishing to pursue graduate school training.

At ESU, students receive innovative academic preparation, with an emphasis on public health practice, public administration and management theory and extensive applied experiences within professional settings. The Public Health degree with a concentration in Health Services Administration provides broad exposure to the health sciences, as well as the natural and social sciences.

Upon completion of the degree programs, students are prepared to assess community needs, and design, implement and manage health and medical programs that promote health and prevent disease. The curriculum provides students with the opportunity to network with practicing professionals.

Degree Options:
The Health Services Administration program is designed to prepare students for administrative careers in an expanding healthcare field. The program is interdisciplinary, so students take courses in three departments: Health, Political Science, and Economics.

- **Bachelor of Science in Public Health with a concentration in Health Services Administration –**
  A 44-credit interdisciplinary major that provides students with the educational foundation for careers in health administration, delivery, and policy.
- **Health Administration Minor –** An 18-credit program that provides students enrolled in other majors with a general understanding of health administration.

Are you interested in...
- Planning, coordinating, directing, and supervising healthcare delivery
- Managing a medical facility/clinical department
- Improving the quality of care and efficiency in healthcare facilities

Choose Health Services Administration at ESU
- Small class size
- Qualified, experienced faculty
- Practical internships

Is health services administration a career path for me?

Career Potential
- Students who graduate with training in health services administration can find career opportunities in administration or resource development in the public or private sectors of health service delivery, and can specialize in planning, organization, policy formation and analysis, finance, economics, and marketing. Health service administrators play a leadership role in regional, state, national, and international agencies and organizations. Students who graduate from our programs can enjoy successful careers in a variety of settings.

Career Settings
- Ambulatory clinics
- Hospital inpatient and outpatient departments
- Managed care organizations
- Insurance and pharmaceutical companies
- Administrators in training for long-term care
- Consulting firms
- Government agencies
- Nonprofit agencies
- Pharmaceutical companies

More detailed career information is available from the department.

Bachelor of Science in Public Health - Concentration: Health Services Administration

54 semester hours
The Health Service Administration concentration is an interdisciplinary program that provides the educational foundation for careers in health services administration, delivery and policy.

The program prepares students to work in the challenging healthcare sector in the administration of health services. The program prepares students for careers that make a significant contribution to improving the health of communities. The program consists of courses from the Economics Department, the Political Science Department, and the Health Department.

The program is designed to prepare students to enter careers in healthcare delivery settings (hospitals, clinics, home health agencies), public health settings (county and state health departments or community-based organizations), in other allied health settings (nursing homes) or in the insurance segment (insurance companies and HMOs).

- **Required major courses** - HLTH 210, 230, 260, 270, 280, 370, 380, 381, 382, 386, 440, 460, 470, 486.
- **Corequisite courses** - BIOL 111, 112, CPSC 100, MATH 110, CMST 111, MGT 200, 211, POLS 293.
- **Another 6 additional credits from** - ECON 332, MGT 204, 212, 352, POLS 416, 466, 467, 468.
- **Other requirements** - A full-time, 12-credit internship experience (HLTH 486) is required. Completion of all health coursework and an overall quality point average of 2.50 and a quality point average of 2.50 within the major is required for approval to enroll in the internship.

Health Services Administration Minor

18 semester hours
This minor is designed for students planning to enter public health careers. Enrollment in a major related to public health is strongly recommended. Some of these courses offered by other departments are scheduled on an every other year basis.

- **Required courses**: EMGT 200, HLTH 280, 381, POLS 293
- **Corequisite courses:** 6 credits from HLTH 260, 270, 380, 382; POLS 416, 467, 468, EMGT 204, 211.
- **Required quality point average:** 2.00 for the seven courses.

Health Services Administration Internships

Students in the Bachelor of Science program have the opportunity to complete internships with major health care facilities throughout the northeast. Student internship sites include:

- Government agencies: federal, state and local health departments;
- Medical centers, hospitals and other health care institutions;
- Community coalitions and health improvement programs;
- Not-for-profit organizations (i.e., American Cancer Society, American Red Cross); and
- Worksite wellness and health promotion programs for employees.

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

HLTH 210: Foundations of Health Science	3
CPSC 100 GE: Personal Computers and Their Uses	3
MATH 110 GE: General Statistics	3
BIOL 111 GE: Human Anatomy & Physiology I	4
Elective	3
Subtotal	**16**

Spring

HLTH 230: Community Health	3
BIOL 112 GE: Human Anatomy & Physiology II	4
ECON 112 GE: Principles of Microeconomics	3
POLS 211 GE: American Government	3
General Education Elective	3
Subtotal	**16**

Sophomore Year

Fall

CMST 111 GE: Speech Communication	3
EMGT 200: Principles of Management	3
EMGT 211: Financial Accounting Fundamentals	3
General Education Elective	3
Elective	3
Subtotal	**15**

Spring

HLTH 280: Fundamentals of Health Administration	3
HLTH 260: Foundations in Epidemiology	1.5
HLTH 270: Environmental Determinants	1.5
POLS 293: Public Policy & Administration	3
General Education Electives	3
General Education Elective	4
Subtotal	**16**

Junior Year

Fall

HLTH 381: Health Economics & Financing	3
Corequisite coursework (EMGT or POLS)	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

HLTH 380: Health Project and Grant Development	3
HLTH 370: Planning & Evaluation	3
HLTH 382: Health Law and Ethics	3
HLTH 440: Modifying Health Behaviors	3
General Education Electives	3
Subtotal	**15**

Senior Year

Fall

HLTH 386: Pre-Practicum & Public Health Practices	3
HLTH 460: Community Health Organization	3
HLTH 470: International Health Science	3
Corequisite coursework (EMGT or POLS)	3
Elective	3
Subtotal	**15**

Spring

HLTH 486: Field Experience and Internship	12
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3702 or visit www.esu.edu/hlth

Faculty

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Course Descriptions

HLTH 210 Foundations of Health Science (3)

The historical and philosophical perspectives of the development of health science will be discussed in this course. A comparison will be made of the major concepts and theories of health and characteristics of health education programs in schools and communities. For those interested in the Health major only.

HLTH 220 Personal and Consumer Health (3)

This course deals with the identification of individual capability and responsibility for the development of attitudes and patterns of health behavior leading to a full and satisfying life. In addition, the course

investigates the factors to be considered by a consumer purchasing products and services, including a study of the agencies and programs designed for consumer protection.

HLTH 230 Community Health (3)

This course consists of an exploration of the current major community health problems, the programs for preventing and controlling health problems, and the various community organizations which deal with these problems.

HLTH 240 Health Emergencies (3)

This course deals with training in life saving measures for all types of emergency situations with the opportunity to become certified in First Aid instruction and Cardiopulmonary Resuscitation (heart-lung resuscitation).

HLTH 250 Human Sexuality for Healthful Living (3)

This course examines the current knowledge and attitudes of human sexual behavior with emphasis on topics ranging from the sex act, orgasm, childbirth, birth control, sexual dysfunction, masturbation, to homosexuality.

HLTH 260 Foundations of Epidemiology in Public Health (1.5)

This course is a study of the basic principles and methods of epidemiological investigations for human health problems. An overview of the nature of epidemiological research will be provided. Special emphasis will be placed on the use of epidemiology in health services administration, and public health practice, including the planning of health promotion and health education programs in the community.

HLTH 270 The Environmental Determinants of Community Health (1.5)

This course is a study of the basic principles and methods of epidemiological investigations for human health problems. An overview of the nature of epidemiological research will be provided. Special emphasis will be placed on the use of epidemiology in health services administration, and public health practice, including the planning of health promotion and health education programs in the community.

HLTH 280: Fundamentals of Health Administration (3)

This course is designed to acquaint students with fundamental concepts and methods of modern management in health care settings. Various administrative practices among private for-profit, not-for-profit, and public health agencies are covered with particular focus on common integral principles and responsibilities of administration.

HLTH 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for them as a part of the curriculum.

HLTH 303 Elementary School Health (3)

This course develops a health education curriculum designed for K-6 including an investigation of methods, materials, and evaluative techniques.

HLTH 310 Family Health Education (3)

The course examines human sexual behavior from a historical and socio-psychological perspective. It also includes biological and psychosocial development from infancy to adulthood, sexual response, and sexual dysfunction. The goals of sex education and the need for discussing sexuality in the schools will be stressed. Curriculum development, content and implementation will be included. Prerequisite: Advanced standing of 60 semester hours or HLTH 220 or 230.

HLTH 340 Nutrition for Healthful Living (3)

This course is an overview of the principles of nutrition and how nutrition applies during the critical periods throughout the life cycle. Special attention will be given to the planning of diets for a better quality of health. Prerequisite: Advanced standing of 60 credits.

HLTH 341 Nutrition Education (1.5)

This course is designed to prepare students in the health and physical education teacher certification program to teach the principles of nutrition in the school setting. Emphasis will be placed upon methods and materials necessary for the teaching of nutrition in grades K-12. Prerequisite: HLTH 220 or 230.

HLTH 350 Promoting Emotional Well-Being (3)

This course focuses on emotional health and its relationship to all school-aged children. Primary emphases will be placed on recognizing factors influencing emotional well-being and development. In addition, considering all school-aged learners, recognition, development, and facilitation of methods related to constructive responses, positive personal and social skills, and emotional aspects of mental health will be examined. Prerequisite: Advanced standing of 60 credits.

HLTH 355 Drug Abuse Education (3)

This course is designed to prepare teachers who can organize and administer a drug education program in the school and community. Prerequisite: Advanced standing of 60 credits.

HLTH 356 Drug and Alcohol Teacher Preparation (1.5)

This course provides future teachers with the understanding, information, attitudes, and skills for use in the application of primary prevention programs for drug abuse. Special emphasis will be placed on decision-making skills, coping behaviors, and interpersonal growth. Prerequisite: HLTH 220 or 230.

HLTH 365 School Health Programs (3)

This course deals with building leadership and collaboration skills to support a Coordinated School Health Program. (CSHP) that will meet the needs of all children/adolescents in a school setting. Candidates will become familiar with national and state standards, nation at risk statistics, community resources, technology, health literacy, and communication skills to encourage healthy children/adolescents. Prerequisite: Admission to the PH-CERT or HL-CTSH.

HLTH 370 Planning and Evaluation in Public Health Practice (3)

The course serves as an introduction to the means of assessing the need for health education, the planning of health education, and the evaluation of the effects of health education. It includes selection and development of appropriate instruments of assessment/evaluation of both Community and School Health, and the theoretical foundations and practical applications of planning for health education. Prerequisite: HLTH 220 or 230.

HLTH 380 Health Project and Grant Development (3)

By the end of the course students will know how and where to collect qualitative and quantitative community data to plan needed health services, and a rational paradigm of community health project planning. Students will have practical experience with laboratory exercises with community-based organizations. Prerequisites: HLTH 230 & 280.

HLTH 381 Health Economics and Finance (3)

Students are acquainted with socioeconomic factors influencing the health care industry and the ways these factors influence health services development and health policy, regulation, and law. Students learn the history of health care financing in the United States and study comparative health systems and the effects of changing social and economic factors on the financing of health care. Prerequisite ECON 111, 112 or equivalent; EMGT 211, 212; and HLTH 230, 280.

HLTH 382 Health Ethics and Law (3)

The student learns how professional ethics and health law interrelate and how both influence the development and delivery of health services by governments and the private sector. Prerequisites: HLTH 230, 280

HLTH 386 Pre-Practicum in Public Health Practice (3)

This guided early field experience is designed to introduce students to the application of health education skills in a supervised setting. This practicum provides an introduction to the various roles and competencies for health education in applied settings. Prerequisite: HLTH 210, 230 and two additional health courses.

HLTH 405 Non-Medical Healing Arts (1)

This course examines the role of Osteopathy, Acupuncture, Faith Healing, and other health services which deviate from or compete with "Medicine" in relation to health education. The social and legal issues concerning these services, reliability of sources of information about the services, and the role of health education in utilization of these services are studied. Focus of the course will be on the development of guidelines for utilization of these services. Prerequisite: Advanced standing of 90 credits.

HLTH 406 Analysis of Health Information (1)

This course is an overview of the use and misuse of statistics, the manipulation of human needs and drives, and the provision of false and misleading information by providers and suppliers of health products and services. All major sources of information related to consumer health will be examined for inherent biases and common forms of misinformation. Prerequisite: Advanced standing of 90 credits.

HLTH 407 Trends in Dieting (1)

This course is a study of the issues surrounding popular health foods and diets. The desirable and undesirable qualities of "natural" and "organic" foods, "exotic" foods, and nutrient enriched foods are examined. The advantages and disadvantages of diets emphasizing specific nutrients or types of foods, crash diets, drug aided diets, and diets for specific purposes are also studied. Focus of the course is on development of guidelines for evaluating information and sources of information. Prerequisite: Advanced standing of 90 credits.

HLTH 408 Women's Health Concerns (3)

This course is designed to address the unique health concerns of women in today's society. Specific topics such as alcoholism, anorexia nervosa, premenstrual syndrome (PMS), domestic violence, child abuse, rape, menopause and many others will be included. Prerequisite: Advanced standing of 90 credits.

HLTH 409 Health Counseling (1)

The purpose of this course is to provide health professionals with an introduction to counseling theory and the skills of counseling techniques. The course emphasis is on the use of counseling techniques to improve the quality of health care, facilitate health-related decision-making and enhance the relationships between client and the health professional. Health behavior theory will also be addressed. Prerequisite: HLTH 461; PSY 225.

HLTH 420 Cardiopulmonary Resuscitation Instructor's Training (1)

This is an instructor's training course in cardiopulmonary resuscitation. This course is designed to train the student in proper techniques and procedures in emergency measures in cardiopulmonary resuscitation. The course is recognized by the American Heart Association and the American Red Cross. Offered on demand. Prerequisites: Advanced standing of 90 credits, HLTH 240.

HLTH 421 Advanced Emergency Care (3)

The course will consist of advanced emergency procedures including CPR during transportation, shallow water rescue and emergency measures in cervical (neck) and back injuries, extrication from an automobile, and proper procedures in the administration of oxygen to a victim of an accident or sudden illness. There is also the opportunity to become certified in advanced emergency care and as an emergency medical technician. Prerequisites: Advanced standing of 90 credits, HLTH 240.

HLTH 430 Professional Practicum in Health Education (2)

This course is designed to develop insight during field experiences of student teachers. It includes the study of typical problems encountered in student teaching, analysis of materials and methods being used, management of health promotion activities, consideration of current priorities in the field, and orientation to professional and legal responsibilities in the field. Prerequisites: Advanced standing of 96 credits; department approval; HLTH 461, 220, or 230.

HLTH 431 Student Teaching in Health Education (5-12)

This experience consists of a semester of guided teaching experience in school health education both in an elementary and secondary placement. This field experience is designed to provide the candidate with the opportunity to develop and refine knowledge, skills and dispositions needed in a PK-12 setting. This experience focuses on candidates implementing units of instruction that are developmentally appropriate and provide a positive and effective learning experience for all learners. Prerequisites: Admission to HP-CTPE or HL-CTSH, Passed Praxis II: Fundamental Subjects-Content Knowledge; All required HLTH courses with a "C" or better, PSED 150, 250 and REED 350; ACT 34 and/or FBI Clearance and ACT 151; Minimum 2.8 QPA overall and Health Students must have a 3.0 or higher GPA prior to graduation from East Stroudsburg University to be certified in the Commonwealth of Pennsylvania.

HLTH 432 Death and Dying-Implications for Health (3)

This course investigates the phenomenon of death and dying with the focus on the development of reinforcement of healthy attitudes, values, and behaviors. Prerequisite: Advanced standing of 60 credits.

HLTH 440 Modifying Health Behaviors (3)

This course is an overview of the major theoretical models used in public health for modifying health behaviors. This course examines efficacy of interventions in relation to current practices in public health. Best practices and applications of theory-driven health behavior change are studied within the context of community-based settings. The focus of the class is to identify the critical factors necessary to create health behavior changes in order to address the Center for Disease Control and Prevention revised "Healthy People" goals and objectives. Prerequisite: HLTH 461, 220, or 230.

HLTH 442 HIV and AIDS Prevention and Education (3)

This course is designed to provide a comprehensive overview of HIV/AIDS infection in Pennsylvania, New Jersey, and other states. The course will provide information about recent research on modes of HIV transmission and risk reduction strategies. Particular emphasis will be placed on the design and evaluation of HIV prevention and education programs geared towards high-risk populations.

HLTH 444 Health Promotion Programs and Aging (3)

This course will emphasize health promotion programming for elderly populations. Social and demographic factors will be addressed in regard to health education's role in the aging process. Healthful aging will be examined and discussed from a public health and school health perspective with a primary focus on developing and implementing programs that enhance the health of the elderly.

HLTH 460 Community Health Organizations (3)

This course is designed to investigate the theories, principles, and practices of community organizations for health, techniques of group work, current research in community organizations, and examination of programs of community health agencies. Prerequisites: Advanced standing of 90 credits; HLTH 230.

HLTH 461 Methods in Health Education (3)

This course is designed to prepare the future teacher in methods for presenting health concepts to the elementary and secondary student. It focuses on using standard-based instructional framework in order to provide developmentally appropriate instruction and assessments for all learners. Prerequisite: Admission to HP-CTPE or HL-CTSH and taken concurrently with HLTH 462, semester prior to HLTH 431.

HLTH 462 Assessment in School Health Education (3)

This course is designed to provide the school health education candidate with the knowledge, dispositions and skills to assess the impact of health education on PK-12 student learning. Various types and methods of student assessment will be explored and practiced to create a learning environment that is supportive for all student success. The candidate will be provided the opportunity to participate in a professional development school experience to demonstrate assessment skills. Prerequisite: Admission to HP-CTPE or HL-CTSH and taken concurrently with HLTH 461, semester prior to HLTH 431.

HLTH 470 International Health Science (3)

The course is designed to familiarize the student with international health problems and the social, physical, emotional, and spiritual complexities related to changing health status. Emphasis is placed on how change instituted for improvement of physical health may positively or negatively affect the total well being of people. Examination of international health organizations and programs is included. Prerequisites: HLTH 230; advanced standing of 90 credits.

HLTH 482 Health Leadership and Strategic Management (3)

This course familiarizes students with theories of personnel supervision, leadership style, and the application of behavioral sciences and techniques of strategic planning in organizational development and work group behavior, and different modes of administrative decision making. Pre-requisite(s): Advanced standing of 90 credits.

HLTH 485 Independent Study (Semester hours arranged)

With the guidance of a faculty member of the Health Department, the student pursues a pattern of readings, study, and research related to professional knowledge and understanding in health science. Topics should be established prior to enrollment. Prerequisites: Department approval; advanced standing of 90 credits.

HLTH 486 Field Experiences and Internships (Semester hours arranged)

Prerequisites: Department approval; 2.50 overall QPA, 2.50 QPA in major, completion of all requisite and corequisite courses, and advanced standing of 90 credits.

HLTH 499 School Health Education Internship (1)

This course is designed to provide the candidate with an opportunity to work with a Health Education Content Specialist during the student teaching experience. The course will enhance the candidate's ability to understand and maximize the relationship between the disciplinary subject matter and pedagogy. The candidate will implement units of instruction that are supportive of all students Prerequisites: Concurrent with HLTH 431 and PETE 440.

History

College of Arts and Sciences

The Faculty of Social Sciences
Stroud Hall, Room 409
570-422-3286.....www.esu.edu/hist

About the History Department
We pride ourselves on being a teaching-focused institution with scholars who also contribute publications in their specific field of history. Our faculty offers a diverse range in courses.

The department's most popular track is the Social Studies Secondary Education concentration. The program is highly valued because of its balanced combination of content, pedagogy, and high job placement level.

We are also proud to be among a small list of history departments throughout the country to have a Public History concentration for undergraduate students.

About the Program
The Bachelor of Arts in History program affords students the unique experience of working closely with professors in a small setting, while allowing them to pursue a degree that meets their personal needs so they will be prepared for a fulfilling career.

We offer three concentrations: American and World History, Public History and Latin America and Latino History.

Students may also choose a dual major in History and Education (Social Studies certification).

Are you interested in...
- How the past affects the future America's place in the world

Choose History at ESU
- Small advanced class sizes
- Local history internships
- Qualified, experienced faculty

Is History a career path for me?

Career Potential
- Researcher
- Archivist
- Writer
- Preservationist

Career Settings
- Museums
- Library
- Government
- Law office

More detailed career information is available from the department.

Bachelor of Arts in History - Concentration: American and World

36 semester hours

- **Required major courses:** HIST 390 and 495; one of the following: HIST 111, 112, or 113; one of the following: HIST 141, 142, 143, or HIST 144; one of the following: HIST 270, 271, 272, 281, 282, 288, 335, 371, 381, 382, 424, 471, 472, 473, or 474; 21 additional semester hours in History.
- **Additional Requirements:** Twenty-one hours of this total must be completed at ESU. Fifteen hours must be 300/400 level courses.

Bachelor of Arts in History - Concentration: Public History

39 semester hours

- **Required major courses:** HIST 320, 352, 390, and 495; one of the following: HIST 111, 112, or 113; two of the following: HIST 141, 142, 143, or 144; one of the following: HIST 270, 271, 272, 281, 282, 288, 335, 371, 381, 382, 424, 471, 472, 473, or 474; HIST 486 (6 semester hours); nine additional hours in History.
- **Corequisites:** One of the following: ART 101, 201, or 202; CMST 111; CPSC 100; ENG 205; GEOG 110; MGT 200. One semester of a foreign language.
- **Additional Requirements:** Twenty-one hours of this total must be completed at ESU. Fifteen hours must be 300/400 level courses.

Bachelor of Arts in History - Concentration: Latin America and Latino

36 semester hours

- **Required major courses:** HIST 315, 360, 363, 390, and 495; one of the following: HIST 141 or 142; one of the following: HIST 143 or 144; one of the following: HIST 111 or 113; one of the following: HIST 270 or 271; nine additional semester hours in History.
- **Corequisites:** ENG 190, POLS 111, POLS 211, ECON 111, SOC 111, SOC 343, GEOG 110; one of the following: GEOG 210 or 212.
- **Required Minor in Spanish:** — See *Modern Languages*.
- **Additional Requirements:** Twenty-one hours of this total must be completed at ESU. Fifteen hours must be 300/400 level courses.

Students may also choose a dual major in History and Education.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

HIST 141: Foundations of United States or HIST 142: U.S. as a Developing Nation or HIST 143: 20th Century Untied States History	3
ENGL 103: English Composition	3
General Education – Arts and Letters	3
General Education – Natural Science	3
General Education – Social Science	3
Subtotal	**15**

Spring

HIST 111: World Civilization to 1300 or HIST 112: Modern World Civilization 1300-1914 or HIST 113: 20th Century World Since 1914	3
HIST Elective	3
General Education – Arts and Letters	3
General Education – Natural Science	3
General Education – Social Science	3
Subtotal	**15**

Sophomore Year

Fall

HIST European Requirement	3
HIST Elective	3
General Education – Arts and Letters	3
General Education – Natural Sciences	3
General Education – Social Science	3
Subtotal	**15**

Spring

HIST Elective	3
General Education – Arts and Letters	3
General Education – Natural Sciences	3
General Education – Social Science	3
Free Elective	3
Subtotal	**15**

Junior Year

Fall

HIST 390: Seminar I	3
HIST Elective (Non Western)	3
Fitness Elective	1
General Education – Arts and Letters	3
General Education – Natural Sciences	3
General Education – Social Science	3
Subtotal	**16**

Spring

HIST Elective	3
HIST Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Fitness Elective	1
Subtotal	**16**

Senior Year

Fall

HIST Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Subtotal	**15**

Spring

HIST 495: Seminar: Historical Research and Presentation	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	1
Subtotal	**13**
Total Credits	**120**

Department of History 570-422-3286 or visit www.esu.edu/hist

Bachelor of Arts in History - Concentration: Secondary Education Social Studies

37 semester hours

- **Required major courses:** Two of the following: HIST 111, 112 or 113; two of the following: HIST 141 or 142 or 143; one of the following: HIST 270, 271, 272, 281, 282, 288, 335, 371, 381, 424, 471, 472, 473, 474; one of the following: HIST 115, 313, 314, 330, 333, 343, 363: HIST 352, 390, 495, 499. Nine additional semester hours in History.
- **Required Social Science courses:** POLS 111, 211, one POLS elective(200 level or above), ECON 111, SOC 111, GEOG 130, ECON 112 or SOC 102.
- **Required Education courses:** PSED 150, PSED 250, REED 350, SPED 350, PSED 420, PSED 421, PSED 430, PSED 431 and PSED 458.
- **Additional requirements:** All Social Studies Certification students must take PSY 100; two Math courses and one English Literature course. Twenty-one credits in History must be completed at East Stroudsburg University. Fifteen credits in History must be in 300 - 400 level courses.

See *Social Studies* for Program Curriculum Plan

History Minor

18 semester hours

- **Required courses:** At least one course in each of three areas: United States History, European History, and Area Studies/World History; nine additional semester hours of History.
- **Note:** Nine credits of this coursework must be at the 300-400 level.

Faculty

Associate Professors:

Marie Donaghay (mdonaghay@po-box.esu.edu)

Shannon Frystak (sfrystak@po-box.esu.edu)

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Assistant Professors:

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Christopher Dudley (cdudley@po-box.esu.edu)

Bonar Hernandez (bhernandez@po-box.esu.edu)

Erin O'Donnell (eodonnell@po-box.esu.edu)

Course Descriptions

HIST 111 GE: World Civilization to 1300 (3)

This course traces the development of civilization through the rise and fall of cultures in Europe, Asia, Africa and the Americas to 1300 A.D.

HIST 112 GE: Modern World Civilization, 1300-1914 (3)

This course acquaints students with the history of Europe, Asia, Latin America, and Africa.

HIST 113 GE: Twentieth Century World, Since 1914 (3)

This course examines political and social developments since World War I and their relationship to the wars of the century, materialism, imperialism, industrialism, socialism, communism and democracy. Selected events and problems may be examined to illustrate basic trends and concepts.

HIST 115 GE: History of the Non-Western World, Since 1800 (3)

This course traces developments in Asia, Africa, and Latin America from the colonial era to independence. Special emphasis is given to the diverse cultures in the non-western world and their interaction with the west.

HIST 141 GE: Foundations of the United States (3)

This course deals with European colonization of the New World, the social, economic and political development of the colonies, the growth of revolutionary movements, and the political and social consequences of independence.

HIST 142 GE: The United States as a Developing Nation in the Nineteenth Century (3)

This course is a study of continued growth of the federal republic from the age of Jackson to the end of the century with particular attention to political problems, economic development, social changes, the Civil War and growing industrialization, culminating with the emergence of the United States as a world power.

HIST 143 GE: Twentieth Century United States History (3)

This course is a study of the United States during the twentieth century. The course has strong emphasis on the Progressive movement, World War I, the Great Depression, the New Deal, World War II, the Cold War, the Civil Rights Movement and contemporary social, political and cultural changes and their origins.

HIST 211 GE: The Ancient World (3)

This course studies the origins of western cultural traditions in the Middle East and the rise and fall of the Greco-Roman world with special emphasis on political institutions, intellectual, religious, artistic, and literary achievements. Prerequisite: One of HIST 111, 112, or 113.

HIST 241 GE: American Colonial History (3)

This course is an in-depth study of the colonial period. It stresses developments that later contributed to the growth of the United States. Prerequisite: HIST 112 or 141.

HIST 253 GE: Women in American History (3)

This course is a study of the role of women in American history from colonial times to the present. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 270 GE: Early Modern Europe, 1500-1789 (3)

This course explores the development of Europe between the Reformation and the French Revolution, focusing on the religious revolution of the sixteenth century, the rise of absolute rulers, mercantilism and the European state system, the Scientific Revolution, and the Enlightenment.

HIST 271 GE: Foundations of Modern Europe, 1789-1914 (3)

The course presents the history of Europe from the French Revolution to World War I: the fall of the Old Regime in France and its effect upon European political developments in the 19th century; the Napoleonic episode and the conservative reaction; romanticism, nationalism, socialism, democracy; and imperialism, and international relations.

HIST 272 GE: Modern European History, 1914-1990 (3)

This course presents Europe since 1914: World War I, Paris Peace Conference, The League of Nations and Collective Security, rise of Bolshevism and Fascism, World War II, the Cold War, NATO and the Warsaw Pact, the political and economic search for a new Europe in the 1980's.

HIST 278 GE: History of Everyday Life, Since 1800 (3)

This course explores changes in the everyday activities of common people. It deals with leisure, entertainment, sports, health, urban and suburban life, non-elite mass media, the social effects of modern transportation, and other selected topics.

HIST 281 GE: The Third Reich - from Hitler to Holocaust (3)

This is an interpretive survey of Europe during the Hitler era centered on the history of Nazi Germany. Topics covered include the origins of National Socialism, Adolf Hitler, Nazi political and social revolutions, the S.S. terror system, the Nazi "new order" in Europe, the Holocaust, and the Nuremberg Trials. Prerequisite: One of HIST 112, 113, or 144.

HIST 282 GE: Women in European History (3)

This course is a study of the role of women in European history up to the present. Emphasis is placed on the changing social and political position of women in European society since the Industrial Revolution. Prerequisite: One of HIST 111, 112, 113, 141, 142, or 143.

HIST 288 GE: Social History of Victorian and Twentieth Century England (3)

Using the new social history the course will explore the character of upper, middle, and working class society in England from the Victorian era to the present. It will study the social changes and continuity of English society since 1832. Prerequisite: HIST 112 or 113.

HIST 290 Special Topics (Semester hours arranged.)

These courses are designed to meet specific needs of students or are offered on a trial basis in order to determine the demand for and the value of introducing them as a part of the university curriculum.

HIST 313 China: History and Politics (3)

This is a study of China since traditional times examining political, cultural, and economic aspects of her society up to the present and its influence on East Asia and the world. A companion to HIST 314. Prerequisite: One of HIST 111, 112, 113, or 115.

HIST 314 Japan and the Rimland of East Asia (3)

This course presents the historical and cultural evolution of Japan, Korea, and the nations of Southeast Asia and their contemporary government and politics. This is a companion course to HIST 313. Prerequisite: One of HIST 111, 112, 113, or 115.

HIST 320 Introduction to Public History (3)

The focus of this area of study is to promote the subject of public history as a way of offering a new dimension to the study of history. Public history will be examined through the exploration of the role of museums and historic sites, and by studying their purposes, practices and relationships to the scholar and classroom educator. Prerequisite: Any two of the following: HIST 141 or 142 or 143 or 144; any one of the following: HIST 111 or 112 or 113.

HIST 321 African-American History to 1865 (3)

This course covers African-American history from colonization of the Americas to the end of the Civil War. Topics covered in this course include the following: Africans and the slave trade, origins of American slavery and racism, origins of African-American culture, the slave family, roots of resistance, abolitionism, and African Americans in the Civil War. Prerequisite: HIST 141 or 142.

HIST 322 African-American History since 1865 (3)

This course examines the African-American narrative from the Reconstruction era through the Modern Civil Rights movement to the present day. Emphasis is placed on black social and political thought and action. Topics covered include the role of black intellectuals, black working-class politics, the Great Migration, Pan-Africanism, black radicalism, black feminism, and the various issues confronting the black community in the 21st Century. Prerequisite: HIST 143.

HIST 323 The Gilded Age and Progressive Era (3)

This course explores the major themes and issues in American history from the end of Reconstruction to the United States entry into World War I (1877 to 1917). Some of the topics covered in this course will be industrialization and its impact on the United States, the populace and progressive movements, how the United States became an imperial power and how questions of race and ethnicity shape American culture and politics. Prerequisite: HIST 142 or 143.

HIST 324 United States History, 1914-1945 (3)

This course examines the tumultuous history of the United States between 1914 and 1945. Topics will includee the profound economic upheaval of the period; the rise of consumerism and mass culture, racial, ethnic, and religious conflict; the women's suffrage movement and changing gender roles; the Great Depression; the labor movement; the New Deal and the development of the welfare state; and the ascendancy of the U.S. to global superpower. Chronologically framed by two global conflicts, the course will explore the impact of both wars on American culture, political development, and social relations. In studying these topics, we will continually return to four fundamental questions that confronted Americans then, and continue to face Americans today: (1) What is the proper role of the federal government in American Society?; (2) What role should the United States play in world affairs?; (3) How do Americans confront the challenges that arise from living together in a complex society marked by differences of class, race, ethnicity, and gender?; (4) What is the impact of war on American culture, society and political institutions?. Prerequisite: HIST 142 or 143.

HIST 326 History of the Civil Rights Movement in America (3)

This course examines, in depth, the modern black struggle for equality in the United States. Attention will be devoted to the legislative, social, economic, and political aspects of the movement from the perspective of those at the grassroots as well as the national levels. Prerequisite: HIST 143.

HIST 330 South Asia (3)

This course examines the social, political, and cultural history of the South Asian subcontinent in the modern period. Topics discussed will include the establishment and consequences of foreign rule, the rise of nationalism and the partition of the subcontinent. Prerequisite: one of HIST 111 or 112 or 113 or 115.

HIST 333 Africa (3)

Substantial attention is given to the African experiences before 1800, emphasizing the roots of modern Africa. The course traces the development of European empires in the 19th century, the emergence of African nationalism in the 20th Century, and the interaction of Western and African cultures. This course is also listed as POLS 333. Prerequisite: Advanced standing of 60 credits.

HIST 335 History of Modern Italy (3)

This course traces the development of Italy from the Napoleonic Era to the present. Among topics covered are unification, the Liberal Period, Fascism, and the postwar years. Emphasis is on social, political, and economic trends. Prerequisite: HIST 112 or 113.

HIST 340 Origins of American Republic (3)

This course is an intensive study of the origins of the United States Constitution, beginning with the 1750s. The struggle over ratification of the Constitution and the creation of the Bill of Rights also receive their due. This course will further include a close examination of the Federalist Papers and the Anti-Federalist papers. Prerequisite: HIST 141.

HIST 341 GE: U.S. Military History (3)

This course is a study of the development of American military institutions, policies, and traditions from colonial times to the present. Emphasis is on the strategic and tactical deployment of our armed forces in war and peace. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 342 Civil War and Reconstruction (3)

This course examines the major events, battles, and leaders of the Civil War, Union and Confederate, and the outcome of the conflict. The Reconstruction period is studied with emphasis on the political, social, and economic conflicts of the era and the reasons for the failure of Reconstruction. Prerequisite: One of HIST 141 or 142.

HIST 343 The Middle East (3)

This is an introductory survey of ancient civilization and an intensive study of growth and effects of colonialism and imperialism. Emphasis is placed on cultural backgrounds and the revolutionary nationalism of the modern period, and discussion of contemporary events. This course is also listed as POLS 343. Prerequisite: One of HIST 111, 112, 113, or 115.

HIST 344 Frontier History (3)

This course is a study of the movement of the American Frontier from colonial times to 1890. Emphasis is placed on the impact of the changing frontier on Native Americans, westward expansion, the development of the various forms of transportation, and the environmental factors which contributed to the rise of the conservation movement. Prerequisite: Any one of the following: HIST 141, 142, 143, or 144.

HIST 346 GE: History of Urban America (3)

This course provides an examination of the growth and transformation of the American city from the colonial period to the present. Attention is focused on the evolution of political and economic institutions, social change, technological innovations, planning theories, and reactions of sensitive observers to the process of urbanization as expressed in imaginative literature and scholarly studies. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 347 GE: American Business History (3)

This course traces the growth and development of American business from the late 18th century to the present. Emphasis is placed on the transportation revolution, labor, technology, the impact of the Civil War, modern industrialization, trusts and antitrust movements, unionization, the Great Depression, World War II, and the problems of contemporary business. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 350 Economic History of Modern Europe (3)

This course traces the economic development of Europe from industrialization to the creation of the European Union. Emphasis is placed on the industrial revolution, patterns of development, strategic sectors, the role of the state, the economic consequences of war, planning for the postwar economy, and the origins and evolution of the European Union. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 352 History of Pennsylvania (3)

This course will cover the development of Pennsylvania from the period of exploration and colonization to the present and its inter-relationships with the rest of the country. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 354 African-Americans and the Courts (3)

This course places African-American History within the broader context of United States History via the lens of the United States judiciary. Major precedent will be the primary focus, beginning with the legal state of those of African descent in colonial America through the different roles taken by African-Americans in the 1990s. Prerequisites: one of the following: HIST 141, 142 or 143

HIST 355 United States Constitutional History and Law (3)

This course investigates distinguishing aspects of the American constitutional system; judicial processes and decisions of major cases of the United States Supreme Court; interpretation of the fourteenth and other amendments; and evaluation of the contemporary court from a topic perspective. Prerequisite: HIST 141 and POLS 211.

HIST 357 History of the Supreme Court: 1789-1914 (3:3:0)

This course will examine the history of the Supreme Court beginning with the Court under John Jay to that of Melville W. Fuller. Relevant topics included are the lives and contributions of some of the more influential U.S. Supreme Court justices and how the institution has changed over time. Prerequisite: HIST 141 and HIST 142.

HIST 359 Labor History and Industrial Relations (3)

This course examines the roles of labor and management in industrial relations with special references to labor history, wage-rate determination, collective bargaining, and government intervention into labor relations. The implications of the changing structure of the American economy are analyzed. Prerequisite: One of HIST 141, 142, 143, or 144.

HIST 360 Latinos in Modern America (3)

This course explores the historical experiences of the peoples from Latin America and the Spanish-speaking Caribbean, and those of their descendents, in the modern United States. The focus of the course will be to compare and contrast the twentieth-century experiences of the four largest Latino populations: those who can trace their heritage to Mexico, Puerto Rico, Cuba and the Dominican Republic. Prerequisite: HIST 143 or 144.

HIST 362 GE: Colonial Latin America (3)

This course examines the history of Latin America during the colonial era. It traces the Iberian conquest and colonialization, the emergence of colonial societies, and the end of colonial rule in the early nineteenth century. The course focuses on such key themes as religious, slavery, racial and gender relations, reform, and revolution. Pre-requisite(s): HIST 111 or HIST 112 or HIST 113 or HIST 141

HIST 363 Modern Latin America (3)

This course provides an examination of modern Latin America. It focuses on the process of nation-building during the nineteenth century and the rise of the reformist, revolutionary and military movements in the twentieth century. The course places emphasis on selected themes such as gender and racial relations, populism, liberalism, revolution, and democracy. This course is also listed as POLS 363. Prerequisite: One of HIST 111 HIST 112, 113, or 115.

HIST 371 Medieval and Renaissance Europe, 500-1500 (3)

This course traces the history of Europe from the fall of the Roman Empire to the Reformation. Topics covered include origins of the European States, the feudal system, Church-State relations, international relations, origins of the universities, scholasticism, literature and arts, the Renaissance of the 14th and 15th centuries. Prerequisite: HIST 111 or 112.

HIST 381 GE: The Rise of England to 1760 (3)

This course is a survey from the Anglo-Saxon Conquest to the beginning of the Industrial Revolution, centering on the development of the common law and Parliament as well as the growth of England as a national state. Particular emphasis is placed on economic, social, and political developments in the Tudor, Stuart, and early Georgian periods. Prerequisite: One of HIST 111, 112, 113, or 141.

HIST 382 GE: Modern Britain (3)

This course stresses the growth of modern industrial Britain from 1760 with emphasis on social and economic factors of growth, the position of Britain as a world power, the development of the cabinet system, and the emergence of modern social and political reform, including the welfare state. Britain's role in world affairs is analyzed along with her changing status in contemporary Europe. Prerequisite: One of HIST 112, 113, 141, 142, or 144.

HIST 390 Seminar I: Introduction to Historical Methodology (3)

This course is required of History majors who have completed 12 credits in history. It is writing intensive and introduces basic research techniques in primary and secondary sources. The course also surveys historical literature and examines conflicting historical interpretations and approaches. For History majors only. Prerequisite: Must have completed at least 30 credits, at least 12 credits of which must be in history.

HIST 395 Scapegoats and Witchhunts (3)

This course is an interdisciplinary seminar that explores the phenomena of cultural scapegoating and witchhunting. The primary perspectives will be rhetorical, historical, and psychological. By

focusing on various targeted individuals and groups, past and present, the seminar will culminate in a synthesized view based on the instructor's various disciplines. Prerequisite: Honors program or permission of instructor.

HIST 424 Russia and Eurasia (3)

This course focuses on the emerging political units created as a result of the break up of the Soviet Union. Students will examine the causes, nature, and course of the Soviet collapse, the challenges of the successor states, and the consequences of this major historical development for the post-cold war world. This course is also listed as POLS 424. Prerequisites: Advanced standing of 90 credits; one of POLS 101, 111, 211, or 222.

HIST 442 Diplomatic History of the United States, Since 1900 (3)

This course emphasizes the United States' emergence from a tradition of isolationism into a position of international responsibility by examining its progressively deeper involvement in the world's diplomatic and military confrontations. This course is also listed as POLS 442. Prerequisite: Advanced standing of 90 credits.

HIST 471 History of Russia, to 1917 (3)

This is a study of the political, social, and cultural evolution of Russia from the 9th century to the Bolshevik Revolution of 1917 with special emphasis on the development of institutions, social classes, reform and revolutionary movements, foreign policy objectives and achievements, and the growth of Russia as a world power. Prerequisite: Advanced standing of 90 credits.

HIST 472 The Soviet Union (3)

This course is a study of the origins of the development of the U.S.S.R., the social, economic and political transformation of old Russia into a socialist state under Lenin and Stalin, the Bolshevik Revolution of 1917, the civil war, the struggle for power and the great purges, Soviet foreign policy before and after World War II, the cold war, and the post-Stalin era of Khrushchev, the Brezhnev-Kosygin regime, and the collapse of the Soviet Union. Prerequisite: Advanced standing of 90 credits.

HIST 473 Modern Germany (3)

This course studies the Napoleonic impact, the Prussian reform movement, romanticism, liberalism, and nationalism in Germany, the Revolutions of 1848, the age of Bismarck, the Wilhelmian period, World War I, the Weimar Republic, the Nazi revolution, World War II, and the post war era. Emphasis is on political, cultural, and economic changes, 1789 to the present. Prerequisite: Advanced standing of 90 credits.

HIST 474 History of Modern France, 1789-1990 (3)

This course acquaints students with a basic knowledge of France's political, social, economic, and diplomatic history since 1789 and provides a firm grasp of French institutions. Prerequisites: HIST 112 or 113 or advanced standing of 90 credits.

HIST 485 Independent Study (Semester hours arranged)

Independent study is designed to provide in-depth coverage of subject matter not covered in courses offered by the Department and must be justified to meet a specific need. A student wishing to take independent study should discuss the plan first with his/her adviser and then with a member of the Department. If a faculty member agrees to supervise the study, the proposal will be submitted to the chair of the Department. The chair, after acting on the proposal, shall present it to the Department for action. It will then be transmitted to the dean of the college.

HIST 486 Field Experiences and Internships (Semester hours arranged)

HIST 495 Seminar: Historical Research and Presentation (3)

This course is required of seniors majoring or minoring in history. Students must write and defend a research paper that shows a grasp of historical logic and exposition. The course also covers historiography and the major schools of historical thought. Prerequisites: 90 Credits and over.

HIST 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy.

Hotel, Restaurant and Tourism Management

About the Program

The travel and tourism industry is one of the largest, most dynamic industries in the world. Students in the Hotel, Restaurant and Tourism Management program are introduced to this exciting industry and will be prepared to enjoy a successful career in the restaurant, travel and tourism industry.

The Department of Hotel, Restaurant and Tourism Management offers a bachelor of science degree with three concentration options for majors: Hotel Management, Restaurant Management or Tourism Management. All courses are taught by faculty who combine excellent academic credentials with a strong professional background.

The Hotel, Restaurant and Tourism Management program is further enhanced through activities supported by the hospitality industry. Students participate in hotel and restaurant shows, tour hospitality facilities, listen to industry speakers, attend career days, and conduct special projects for the industry.

Are you interested in...

- Coordinating and planning events
- Organizing and directing resources
- Promoting and marketing an event
- Multitasking
- Working with people

Choose Hotel, Restaurant and Tourism Management at ESU

- Small class size
- Internationally accredited program
- Practical field experiences through the department's restaurant, P & J's Café
- Qualified, experienced faculty
- Three concentration options: Hotel Management, Restaurant Management, or Tourism Management

Is Hotel, Restaurant and Tourism Management a career path for me?

Career Potential

- Banquet Director
- Club Manager
- Lodging/Resort Manager
- Catering Director
- Event Planner
- Tourism Director
- Conference Coordinator

Career Settings

- Hotels
- Casinos
- Resorts
- Restaurants
- Country Clubs
- Convention Centers
- Airlines
- Cruise Lines
- Amusement Parks
- Institutional Food Service

Program Features:

57 – 60 semester hours

Suggested Program Curriculum Plan *(Subject to change by university without notice)*

- **Required Major Courses**: Hotel Management: HRTM 101, 211, 212, 241, 321, 331, 351, 391, 392, 421, 431, 441, 451, 486 (9-12 credits), 491 and 2 HRTM electives courses (6 crs.). Restaurant Management: HRTM 101, 211, 212, 251, 311, 321, 331, 351, 391, 392, 421, 441, 451, 486 (9-12 crs.), 492 and 2 HRTM electives courses (6 crs.). Tourism Management: Required major courses: HRTM 101, 211, 212, 232, 321, 331, 334, 335, 351, 421, 431, 436, 441, 451, 486 (9-12 crs) and 2 HRTM electives courses (6 crs.).
- **Corequisite Courses:** Hotel Management: ECON 111, 112; ENGL 205; PSY 100; CMST 111 or 210; EMGT 211. Restaurant Management: ECON 111, 112; ENGL 205; PSY 100; CMST 111 or 210; EMGT 211. Tourism Management: PSY 100; SOC 111; CMST 111 or 210; ECON 112; EMGT 211. Please see the university catalog for general education requirements.
- **Required Quality Point Average**: No less than 2.5 for enrollment in HRTM 486 and graduation.

Accreditation

The Hotel, Restaurant and Tourism Management program is accredited with the Accreditation Commission for Programs in Hospitality Administration.

Student Organizations

Students are encouraged to participate in clubs. The Hotel/Restaurant Management Club is the largest and one of the most active organizations on the campus, providing opportunities to observe, learn and participate in related hotel and restaurant operations.

The HRTM Tourism Club provides an added opportunity for students interested in a career in Tourism.

The department also hosts a chapter of Eta Sigma Delta, the international scholastic honorary society for hospitality students.

The Marketing Club acquaints its members with the basic concepts and philosophies of sales and marketing in the hospitality industry. Student members are offered the opportunity to become familiar with the overall objectives of the parent organization, Hospitality Sales and Marketing Association (HSMA) International.

Transfer Students

Many students transfer from community colleges and other universities. We welcome your inquiries. More information about credit and course transfers is available from the Office of Admissions, 877-230-5547.

More detailed career information is available from the department.

Bachelor of Science in Hotel, Restaurant and Tourism Management

College of Business and Management

The Faculty of Leisure and Sport Management
Hospitality Management Center
570-422-3511.....www.esu.edu/hrtm

The travel and tourism industry is one of the largest, most dynamic industries in the world. Students of the Hotel, Restaurant, and Tourism Program are introduced to this exciting industry and will be prepared to enjoy a successful career in the hospitality industry.

The Department of Hotel, Restaurant and Tourism Management offers a bachelor of science degree with three concentration options for majors: Hotel and Lodging Management, Restaurant Management or Tourism Management. All courses are taught by faculty who combine excellent academic credentials with a strong professional background.

The Hotel, Restaurant and Tourism Management Department is enhanced with activities supported by the hospitality industry. Students participate in hotel and restaurant shows, tour hospitality facilities, interact with industry professionals, attend career days and conduct special projects for the industry. Students are encouraged to participate in department activities.

Students are required to complete an internship in the hospitality industry. The faculty supervised internship provides each student the opportunity to apply the knowledge gained from their coursework in a professional industry setting. Students are encouraged to select an internship that meets their individual learning objectives. Information concerning internship and career opportunities may be acquired by contacting the Hotel, Restaurant and Tourism Management Department.

Concentration: Hotel Management

- **Required major courses:** HRTM 101, 211, 212, 241, 321, 331, 351, 391, 392, 421, 431, 441, 451, 486 (9-12 credits), 491 and two HRTM electives courses (6 credits)
- **Corequisite courses:** ECON 111, 112; ENGL 205; PSY 100; CMST 111; MGT 211.
- **Note:** ECON 111, 112; PSY 100; & CMST 111 or 210 may be used to satisfy university general education requirements.
- Please see the university requirements in this catalog.
- Majors must attain an overall quality point average of not less than 2.5 for enrollment in HRTM 486 and graduation.

Concentration: Restaurant Management

- **Required major courses:** HRTM 101, 211, 212, 251, 311, 321, 331, 351, 391, 392, 421, 441, 451, 486 (9-12 credits), 492 and 2 HRTM electives courses (6 credits)
- **Corequisite courses**: ECON 111, 112; ENGL 205; PSY 100; CMST 111; MGT 211.
- **Note:** ECON 111, 112; PSY 100; and CMST 111 or 210 may be used to satisfy university general education requirements.
- Please see the university requirements in this catalog.
- Majors must attain an overall quality point average of not less than 2.50 for enrollment in HRTM 486 and graduation.

Concentration: Tourism Management

- **Required major courses:** HRTM 101, 211, 212, 232, 321, 331, 334, 335, 351, 421, 431, 432, 436 441, 451, 486 (9-12 credits) and 2 HRTM electives courses (6 credits)
- **Corequisite courses:** PSY 100; SOC 111; CMST 111; ECON 112; MGT 211.
- **Note:** ECON 112; PSY 100; SOC 111 & CMST 111 or 210 may be used to satisfy university general education requirements.

Majors must attain an overall quality point average of not less than 2.5 for enrollment in HRTM 486 and graduation.

Please see the university requirements in this catalog.

Faculty

Professor:
Robert A. McMullin (rmcmullin@po-box.esu.edu)

Associate Professors:
Carol L. Miller (cmiller@po-box.esu.edu)

Albert J. Moranville, Chair (moranville@po-box.esu.edu)

Margaret A. Persia (mpersia@po-box.esu.edu)

Assistant Professors:
Richard Donnelly (rdonnelly@po-box.esu.edu)

For more information, contact the department by calling 570-422-3511 or visit **www.esu.edu/hrtm**

Course Descriptions

HRTM 101 Introduction to Hotel Management (3)

This course introduces the student to the scope, structure, historical development, and current trends in the field of hotel and restaurant administration. It includes an initial investigation into the requirements and responsibilities of a manager in the industry, the techniques used by managers, and career opportunities in the industry.

HRTM 211 Basic Food Techniques (3)

This course is an introduction to the skills and knowledge required to assist students with commercial food production management. Emphasis is placed on the explanation and demonstration of management techniques that occur in the preparation, production, service and profitability of food products. Current trends in foodservice methodology and technology or emphasized. HRTM major only or with permission of instructor

HRTM 212 Menu Planning and Presentation (3)

This course is designed to develop the student's knowledge of menu preparation, item presentation and the concepts of theme, color, and decor in menu development. Various control systems necessary for profitability and quality are examined including the menu as a cost control and marketing tool; sales mix analysis; recipe costing; pricing theories and methodology. Prerequisite: HRTM 211.

HRTM 232 Principles of Travel and Tourism (3)

This course is designed for students to gain an understanding of the basic principles and practices of the tourism industry.

HRTM 241 Rooms Division Management (3)

This course is the study of the service function as it relates to the Rooms Division. Specifically, it is the study of the front office and housekeeping departments as they relate to the total hotel organization. Topics include organizational structure of the Rooms Division, front office and reservation procedures, price structures and accounting, and scheduling and training in these areas. Prerequisite: HRTM 101.

HRTM 251 Applied Foodservice Safety and Sanitation (3)

Applied Foodservice Safety and Sanitation is a course designed to provide the student with the fundamentals and techniques of food management that apply to environmental sanitation. Emphasis is placed on the application of principles necessary to manage a sanitary and safe foodservice operation. For Certification with the National Restaurant Association. Prerequisite: HRTM 212.

HRTM 261 Club Management (3)

An overview of Club Management industry with emphasis on the analysis of country clubs, night clubs, and private clubs. Students will be exposed to the history and structure of club management, physical organization, operating club departments, and entertainment within club management.

HRTM 271 Casino Management (3)

An overview of Casino Management with emphasis on the analysis of casino hotel operations, the gaming industry and its trends, and casino organizational structure. Students will learn the gaming history, casino management, physical organizations, and government regulations of gambling. Related topics include layout and design of facilities, surveillance, demographic profiles, psychological profiles, and economic impact.

HRTM 290 Special Topics (Semester hours arranged)

This course is designed to meet specific needs of groups of students or courses to be offered on a trial basis in order to determine the demand for and value of introducing them as a part of the curriculum.

HRTM 311 Haute Cuisine and Oenology (3)

This course consists of an introduction to the classic dishes of haute cuisine, general information on menu planning, preparation of various international dishes, and sources and characteristics of selected wines of the world, how they are produced, stored, and selected. Prerequisites: HRTM 101, 212.

HRTM 321 Human Resources I (3)

This course introduces the student to the human resource function in the hospitality industry. It stresses the importance of modern personnel techniques to the successful operations of lodging, food service, or tourism business. Prerequisites: HRTM 101, 211.

HRTM 331 Hospitality Marketing I (3)

This course establishes the importance of a formalized marketing program in successful hotel, restaurant and tourism operations. Prerequisites: HRTM 101, 211.

HRTM 334 Tourism Destinations (3)

This course examines the major national and international tourism destinations according to their attractiveness and accessibility to tourists. Prerequisite: HRTM 232.

HRTM 335 Perspectives of International Tourism (3)

At the conclusion of this courses students are expected to be able to identify the major tourism centers of Western, Eastern and Central Europe; South and Southeast Asia; the Middle East; Oceania; and Africa. Students should also be able to describe the locations of the tourism centers using relevant geographic characteristics as well as attractions and other elements which create tourist interest in these areas. Prerequisite: HRTM 232.

HRTM 336 Community Tourism Development (3)

This course presents a localized perspective of the organizational, planning, promotional, and operational procedures utilized for successful tourism development at the community level. Prerequisite: HRTM 232.

HRTM 351 Information Systems for Hospitality Management (3)

This course is a study of various types of computer-based information and communication systems used by managers in the hospitality industry. Topics will include: the essentials of computer systems, property management systems, food and beverage management systems, and e-commerce. Prerequisites: HRTM 321, 331; EMGT 211; CPSC 100.

HRTM 371 Hotel Development and Design (3)

The development of market and feasibility studies, location and site selection, creation of concept, budgetary planning, selection of equipment, space allocation, and maintenance costs are covered in this course. Prerequisites: HRTM 101, HRTM 211.

HRTM 381 Hotel Energy/Engineering Management (3)

This course consists of an introduction to the management of the major engineering systems required to operate the physical plant of a hotel, the importance of energy conservation and controls, impact on efficient cost management, and the need for a continuing rehabilitation program for all areas of the physical plant. Prerequisites: HRTM 101, 211; one of PHYS 101, 103, 117.

HRTM 391 Hotel Purchasing (3)

This course presents the vocabulary, systems, controls specifications, and products typical to hotels. It shows how to set up a purchasing department and defines and establishes its relationship to other hotel departments and hotel operations as a whole. Prerequisites: HRTM 101, 211.

HRTM 392 Quantity Food Production and Service (3)

In this course the student learns to integrate all of the techniques and information of previous culinary courses and participates in the operation of a food service business on campus. Emphasis is placed on planning, preparation, service, and stewarding phases of the operation. Prerequisites: HRTM 101, 211.

HRTM 421 Human Resources II (3)

This course provides an in-depth study of supervisory techniques from first-line to top management in a hotel. It investigates training programs and techniques at all levels of supervision in a hotel, including hotel opening. Prerequisite: HRTM 321.

HRTM 431 Hospitality Marketing II (3)

Building on the marketing principles and concepts learned in Hospitality Marketing I, this course develops the analytical and critical thinking skills necessary for effective strategic marketing. Prerequisites: HRTM 101, 211, 331.

HRTM 432 Tour Planning and Management (3)

This course familiarizes the student with the tour planning process including designing, costing, and marketing an escorted tour. Responsibilities of the tour manager and the tour operator are discussed. Prerequisites: HRTM 232, 334 or 335.

HRTM 436 Meeting and Convention Planning and Management (3)

Students who complete this class are expected to understand the scope and organization of the meetings and convention industry, and to develop the skills necessary to plan and manage a meeting or convention. Prerequisites: HRTM 232, 331.

HRTM 439 Touring Abroad (3)

This course is designed to be an educational experience that combines classroom instruction in the basics of international travel and tour operations (HRTM 335 and HRTM 432) within an authentic setting. Destination of the tour varies. Prerequisites: HRTM 232, 335.

HRTM 441 Hospitality Financial Management (3)

This course continues the study of the financial structure of business at an advanced level with emphasis in the hotel/restaurant (hospitality) industry. It includes an examination of food, beverage, room, and labor cost controls, franchise accounting, hotel/restaurant cost-volume-profit analysis, pricing methods, and other management interests in the financial structure of the hotel entity. Emphasis is placed upon the preparation, interpretation, and application of financial instruments. Prerequisites: HRTM 101, 211; EMGT 211

HRTM 451 Hotel Law (3)

This course traces the origin and development of innkeeping law and introduces the language and role of common law and statutory law in delineating the legal rights and responsibilities in the hotel industry through the analysis and interpretation of actual case studies. Prerequisites: HRTM 101, 211, 321.

HRTM 485 Independent Study (Semester hours arranged.)

Enrollment is contingent upon the student's compliance with all departmental standards and requirements.

HRTM 486 Field Experience and Internship (Semester hours arranged)

Placement for the intern is arranged on an individual basis by the internship instructor in consultation with the intern and the intern-employer. Enrollment in this course requires a minimum cumulative point average of 2.5, 90 semester credits, departmental approval, and 400 hours of documented work experience in the hospitality industry.

HRTM 488 Research Skills in Psychology and Hospitality (Semester hours arranged)

This course is designed for students preparing for and others already employed in the hospitality industry who need a greater degree of sophistication in the methodological problems and the research strategies which are employed in the industry to enable them to become better consumers as well as planners of such applied research. Also listed as PSY 488. Prerequisites: PSY 101; HRTM 101; or advanced standing of 90 credits and permission of departments.

HRTM 491 Advanced Hotel Management (3)

This course is an advanced study of the techniques used in modern hotel management. It includes planning, organizing, leadership, control and other management functions and concepts. The course is structured so that case studies are the primary means of study. Prerequisites: HRTM 321, 392.

HRTM 492 Advanced Food and Beverage Management (3)

This course investigates the systems approach to management in foodservice organizations. Prerequisite: HRTM 392.

Intercultural and Interdisciplinary Studies

College of Arts and Sciences

The Faculty of Arts & Letters
411 Normal Street
570-422-3451.....www.esu.edu/iis

About the Program

The Department of Intercultural and Interdisciplinary Studies was established to highlight the study of diversity and the impact of gender, race, ethnicity, class, sexuality and physical ability on individual lives, culture, and society.

A minor in Interdisciplinary Studies will offer courses that will intentionally explore intercultural issues. This minor will connect and integrate several established disciplines, in order to engender an appreciation for the complexity of intercultural connections.

To inquire about courses in the department of Intercultural and Interdisciplinary Studies contact the department chairperson.

To inquire about the Women's Studies Minor contact the Coordinator of Women's Studies, Mollie Whalen.

Department Faculty

Professors:
Patricia Graham, Chair (patgraham@po-box.esu.edu)

Alfredo Ahumada (aahumada@po-box.esu.edu)

Bachelor of Arts or Bachelor of Science in Interdisciplinary Studies

42 semester hours

An interdisciplinary program of study can be arranged to satisfy an educational objective of an individual student. Such programs may involve either two or three departments. Normally a student must declare an interdisciplinary studies major before completing 60 credits (or before the completion of the first semester for students transferring in 60 or more credits). Exceptions may be approved in extraordinary circumstances. In any case, the student must complete 30 credits after officially declaring an interdisciplinary studies major.

Application forms, available in the Center for Enrollment Services, require a student statement of the goals of the program and how it addresses the student's professional aspirations, a list of courses to be taken from each department, and dated signatures of the student, the chairperson of Intercultural and Interdisciplinary Studies, and the department chair of each cooperating department. The completed form will be filed in the Center for Enrollment Services and copied to the student and each adviser.

Required Courses:

- **Two-department program** - A minimum of 21 credits (at least nine at the 300 level or above) from each department - approved by student, department chair, deans, and chairperson of IIS department.
- **Three-department program** - A minimum of 15 credits (at least six at the 300 level or above) from each of two departments and a minimum of 12 credits (at least three at the 300 level or above) from the third department - approved by student, department chair, deans, and chairperson of IIS department.
- **Note:** Grades of A, B, or C must be earned in all 42 credits.
- Please see the university requirements in this catalog.

Women's Studies Minor

18 semester hours

Mollie Whalen, Professor, Program Director (mwhalen@esu.edu)

This is an interdisciplinary minor designed to enhance any degree program. Women's Studies seeks to recognize the diversity of human experience and examine the interplay of gender, race, class and sexuality by focusing on the experience of women, the concept of gender, and the cultural productions by and about women within different contexts and across various identities and academic disciplines.

- **Required courses:** WMST 150, 495.
- **Corequisites:** 12 credits of Women Studies electives; ART 412; CMST 220; ENGL 183, 393 (Wharton / Austen / Morrison /Cather); HIST 253, 282; HLTH 408; SMGT 403; PHIL 260; POLS 243; PSY 292; RECR 241; SOC 345, 377, SOSW 325; THTR 320; WMST 200, 310, 350; or other courses in the Women's Studies as approved by Coordinator of Women's Studies.
- At least six of the required 18 semester hours for the minor must be 300 to 400 level courses.
- A field experience/internship option, WMST 486, is available as enhancement to the Women's Studies minor. These credits are in addition to the required 18 credit hours indicated above.

Course Descriptions

Intercultural and Interdisciplinary Studies Courses

IIS 100 Introduction to Intercultural Perspectives (3)

This course provides a basic theoretical framework that will enable students to apply intercultural principles and concepts to individual and group interactions. Students will be introduced to strategies that will help them to develop positive working relations with diverse populations by being actively involved in cross-cultural interactions. Prerequisite: Completion of or concurrent enrollment in ENGL 103.

IIS 485 Independent Study In Intercultural Studies (Semester hours arranged)

This course consists of directed research or study on an individual basis. It is taken upon the initiative of a student who seeks to study with the guidance of a faculty member with expertise in intercultural studies. It is designed to provide in-depth coverage of subject matter not covered in courses offered by the department. The student must secure a faculty sponsor, submit a "Request for Independent Study" form, and obtain the approval of the Dean of Arts and Sciences. Prerequisites: IIS 100, 60 credits

Women's Studies Courses

WMST 150 Introduction to Women's Studies (3)

This course will provide an overview of the history, theories, and methodological approaches of Women's Studies; examine the implications of our cultural understandings of women, gender, race, and class; raise questions about the goals and direction of social

change; and review the impact of Women's Studies on traditional disciplines and knowledge. Prerequisite: ENGL 103 (may be taken concurrently).

WMST 200 WS: Women of the African Diaspora (3)

This course will familiarize students with experiences of women of the African Diaspora, by focusing on Africana women in the United States, the Caribbean, South America, Britain, Canada, and France. The focus will center around phenomena of power, oppression, and control, as well as the creative and political contributions such women (and their female descendants) have made. Prerequisite: Completion of or concurrent enrollment in ENGL 103.

WMST 310 Queer Topics: Sex, Gender, and Sexuality (3)

This course examines the complex interrelationships and dilemmas associated with contemporary understandings of human biological sex determination, experiences of gender that cross biological sex categories (i.e., transgenders), and the range of sexual identities, orientations, and preferences. The term "queer" is intended as a synonym for odd, peculiar or anomalous, but is also appropriated as a term to challenge the "hardening of the categories" and dichotomies of male-female, masculine-feminine, and hetero-homosexuality. Prerequisite: WMST 150 or PSY 292.

WMST 350 Feminist Theories (3)

In this course, students will study the theories, conceptual developments, debates, and epistemological and methodological issues that chart the evolution of feminist theories. In particular, students will critically examine feminist theories such as liberal feminism, radical feminism, marxist feminism/socialist feminism, postmodern feminism, and postcolonial feminism. The course is interdisciplinary--highlighting theoretical contributions from scholars of different disciplinary backgrounds. Prerequisite: WMST 150.

WMST 486 Field Experience and Internship in Women's Studies (Semester hours arranged)

This course is designed to provide the student with practical experience and work in a feminist agency or organization. Written assignments will require students to analyze the connections between feminist theory and praxis and between Women's Studies curricula and social activism. Prerequisite: 9 credit hours of Women's Studies coursework, including WMST 150 and 350; Junior standing; minimum QPA of 2.0; permission of Coordinator of Women's Studies.

WMST 495 Seminar in Women's Studies (3)

This seminar is designed to enable students from various disciplines to analyze and synthesize data, ideas, and academic perspectives as they focus on the personal and societal dimensions of gender and roles as these differentiate and affect female experience and activities. Prerequisite: Completion of 9 credits of Women's Studies courses (WMST or co-requisite in other departments), including WMST 150.

International Studies

College of Arts and Sciences

Coordinating Department:
Intercultural & Interdisciplinary Studies.....www.esu.edu/iis

International Studies Minor

21 semester hours

The International Studies Minor at East Stroudsburg University is designed to provide the undergraduate student with an interdisciplinary program of coursework and international experience that enhances the knowledge and skills acquired in the student's chosen major.

Students pursuing this minor become better equipped to engage the process of globalization in an informed way. In addition, they develop a multilingual dimension that is not only sought by employers but also advocated nationally as a step toward constructive world citizenship. The minor is open to all matriculating students at East Stroudsburg University, and it may be used to enrich any degree program.

In conjunction with his or her academic adviser and with a member of the Modern Language Department, the student develops a plan of coursework fulfilling two areas of study, as follows:

A. Focused coursework on an international theme (up to 12 credits). International themes might include area studies, economic interdependence, global environmental issues, comparative cultural studies, transnational business, world political systems, international healthcare alternatives, or others.

Specific requirements: At least six of the 12 credits must be from the following departments: Economics, Geography, History or Political Science. Only three of the 12 credits may be from a 100-level course. At least six of the 12 credits must be at the 300/400 level. All courses must fit the student's pre-approved study plan.

More than 12 credits may be accepted for this requirement if fulfillment of the language requirement (below) requires fewer than nine credits.

B. Foreign language proficiency (up to nine credits). Students must achieve Intermediate-level fluency in a second (or third) language. This requirement may be met in a number of ways.

Native English-speaking students have two options:

- They may complete semesters 1 through 4 of a language offered at ESU. Students with some prior experience or coursework with the language may be placed directly into level 2, 3 or 4, as determined by the placement process followed within the Modern Language Department.
- Alternatively, they may be evaluated as having achieved Intermediate-equivalent proficiency via transfer credits in language from another university (U.S. or foreign), or via other non-academic experiences. In this case, the evaluation will be made by members of the Modern Language Department or by other appropriate language professionals.

Students whose native language is not English may seek recognition of fluency in their native language, and will be asked to fulfill two requirements:

- Completion of a course designed specifically for native speakers of their language, such as the one currently offered regularly at ESU for Spanish. If unavailable in the desired language, the course may be waived at the discretion of the Modern Language Department.
- Completion of six credits of coursework in a language that is neither English nor their native language.

Students will be very strongly encouraged to engage in a semester-length or summer study abroad experience, with appropriate guidance provided. Credits earned overseas can be applied toward completion of the minor's 21 credits.

A quality point average of 2.5 must be maintained.

Upon completion of both components of the minor the student will write a final essay that includes reflections on his or her coursework and intercultural experiences.

Leadership Studies and Military Science

Army Reserve Officer Training Corps (ROTC)
427 Normal Street
570-422-3872.....www.esu.edu/rotc

Career Path in Leadership

Participating in Army Reserve Officers' Training Corps (ROTC) at ESU puts you in control of your future. Leadership instruction, experiential leadership development, and camaraderie coupled with academic and professional mentorship program will prepare you for service to your country and for a lifetime of successful leadership in any career. Army ROTC develops your physical, analytical and leadership skills while strengthening your sense of ethical responsibility. Upon graduation students are commissioned as Second Lieutenants in either the Active Army, Army National Guard or the United States Army Reserve.

Program Philosophy

The greatest focus of ROTC is on all cadets successfully completing their academic degree, competing in athletics and participating in student activities while continually developing as future leaders. Army ROTC leverages the education, values and principles of service in all students attending ESU reinforced with the best leadership development instruction in the nation. This unique combination produces leaders prepared and motivated to complete their officer training and lead elements of the most powerful Army in the world or be leaders in the civilian community. All cadets will be grounded and willing to live by the Army's values and the Warrior ethos.

The Local Program

The East Stroudsburg University Army ROTC is a primary partner in the Northeast Pennsylvania (NEPA) Army ROTC Battalion consisting of 13 colleges and universities in Luzerne, Lackawanna and Monroe counties. The NEPA Battalion was recently recognized as one of the top 15% of all ROTC programs in the country.

The battalion averages 145 students enrolled in ROTC each year, making it the second largest program in Pennsylvania. All classes, labs and physical training are conducted at ESU. The cadets are frequently seen around campus in uniform going to class, and participating in physical training.

Is Leadership Studies and Military Science a career path for me?

Upon graduation students are commissioned as Second Lieutenants in either the

- Active Army
- Army National Guard
- United States Army Reserve

Program Diversity

The NEPA Army ROTC Battalion is very diverse in its makeup. The men and women who comprise the battalion represent 97 different high schools with 43 different majors, from 14 states and two foreign countries. There are also students who have served in the active Army, Army National Guard and the Army Reserve, many who were deployed prior to joining Army ROTC. The wide range of the students' backgrounds enhances the diverse experience of ESU cadets enrolled in the Northeast Pennsylvania Army ROTC Battalion.

Leadership Development

Army ROTC develops confident leaders who will succeed in any endeavor. Army ROTC leadership training means spending time outside of the classroom, sometimes way outside of the classroom. You may find yourself leading your fellow classmates on a tactical training exercise, parachuting from a military aircraft, training with a foreign military organization, or serving as a staff officer at an Army installation.

Students regularly conduct briefings to university staff, mentor fellow students in military and civilian subjects and develop plans and training for the ROTC Battalion. Junior and senior students also have the opportunity to conduct military-sponsored internships related to their major as well as training with industry. Army ROTC also supports service learning and community support leadership.

Exceptional Scholarship Opportunities

Most of our military science students earn Army ROTC scholarships. Army ROTC offers two-, three- and four- year scholarships to qualified students interested in serving as officer leaders in the Army. East Stroudsburg University Army ROTC Scholarships pay full tuition, all academic fees, a yearly book allowance and a monthly stipend ranging from $3,000 to $5,000 per year. High school seniors majoring in certain medical concentrations may qualify for five- or six-year scholarships through Army ROTC. Special nursing, Army National Guard and Army Reserve scholarships are also available.

No Military Obligation for Non-Contracted Cadets

Until you accept an Army ROTC scholarship or sign a contract that you wish to accept a commission as a Second Lieutenant in some component of the Army, there is no military or financial obligation for taking ROTC. Army ROTC can be a college leadership program that allows you to gain valuable leadership skills and earn up to 15 elective credits toward your GPA and graduation.

You can be as involved in Army ROTC as you want to be. You may choose to take a one-hour leadership class each week or you may choose to add the military fitness class, add leadership labs or get involved in one of the Army ROTC clubs or special teams. Many students start by taking the class and gradually increase their activities as they experience first-hand the camaraderie, mentorship, adventure and professional leadership training that is Army ROTC.

Contact Information

ESU Department of Leadership Studies and Military Science
Phone: (570) 422-3872/3962
Email: rotc@po-box.esu.edu
Web sites: www.esu.edu/rotc or www.goarmy.com/rotc

Program Description

East Stroudsburg University offers students the opportunity to participate in Army ROTC through a partnership with the Northeast Pennsylvania (NEPA) Army Reserve Officer Training Corps (ROTC) Battalion. The primary objective of the Army ROTC program is to offer exceptional Leadership Development Training that will serve its students in every aspect of their career, both in the military and civilian positions The commissioning track program prepares the student to serve as an officer in either:

- Active Army
- U.S. Army Reserves
- Pennsylvania (or other state) Army National Guard

Whichever component you choose to serve in, there are more than 20 different specialty fields and career paths to choose from. With as little as seven hours a week you can earn as many as 21 elective credits in this extensive Leadership Development Program that concentrates on developing leaders through the demonstration and hands on practice of the seven Army Values and 16 Key Leadership Dimensions. Through this program each student will learn to lead by using a crawl, walk, and run hands-on progressions. They will plan, communicate, organize, and execute events such as marksmanship training, small unit tactics, land navigation, rappelling, paint ball, obstacle and confidence courses, and many other practical hands-on training opportunities.

The NEPA Army ROTC Battalion continually ranks in the top 10 percent of all ROTC programs nationwide and was ranked third in the Eastern United States in 2006. The NEPA Battalion has recently celebrated 50 years of commissioning officers for the Army.

The Army ROTC program can be tailored to fit any student's schedule, particularly in the freshman and sophomore years. Military Science instruction is offered at East Stroudsburg University with two-, three- and four-year programs leading to a commission as an officer in one of the three components of the U.S. Army. Any East Stroudsburg University student may participate in any basic Army ROTC course without cost or obligation.

To be commissioned as a second lieutenant, students must pass a physical examination and complete at least the final two years of the ROTC program of Military Science courses. The commissioning track consists of three components that the student will typically take each semester; Physical Training (PT), Leadership Lab, and classroom instruction. All together, the program takes as much as seven hours each week and can earn the students as much as 21 elective credits towards graduation.

The Army ROTC provides all uniforms, equipment, and textbooks required for the classes. Each semester there is a military social event and at least one optional weekend training session that includes such events as military marksmanship, cross country orienteering, military rappelling, leadership application courses and obstacle/confidence courses, even paint ball or rock climbing.

Additional Training Opportunities

During breaks and vacations students can volunteer for active army training such as military parachute operations, helicopter operations, military mountain climbing and training with active army units in the United States and overseas. There are also numerous opportunities for leadership internships with state and federal agencies through Army ROTC. All training is cost free to the student and, students are paid for some summer training courses. See the Department of Leadership Studies – Army ROTC to receive specific information about courses available

Students who have completed basic training in any U.S. service may qualify for placement in the advanced course. Additionally students who have not completed the ROTC basic course may qualify for the advanced course by attending a paid four-week long Leadership Training Course conducted each summer at Fort Knox, Ky.

Scholarships, Stipend, and Book Money Available

Freshman and sophomore students can compete for two, two and one-half, and three year ROTC scholarships that pays full tuition and fees regardless of cost and up to $1,200 per year for books in addition to the monthly stipend The Army will commission successful graduates as a second lieutenant with a starting salary of more than $35,000 per year plus housing allowance, food allowance, medical and dental benefits as well as 30 days paid vacation per year.

All students receiving ROTC scholarships, as well as sophomores, juniors and seniors who are contracted with the Army receive a monthly stipend. The stipend starts at $300 per month during the freshman year, increases to $350 during the sophomore year, $450 during the junior year and $500 during the senior year. The stipend is paid directly to the student each month that they are in school.

For more information on the ROTC program at East Stroudsburg University contact the Department of Leadership Studies - ROTC at 570-422-3872 or visit www.esu.edu/rotc.

Faculty

Senior Instructor of Military Science:
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RRemley@scranton.edu

Instructors of Military Science:
LTC Philip Christensen
pchristensen@po-box.esu.edu

SFC Travis Griffith
Tgriffith@po-box.esu.edu

427 Normal Street 570-422-3872 www.esu.edu/rotc

Course Descriptions

MSL 101 Leadership and Personal Development (1)

This course will introduce the critical components of effective leadership. The focus is on comprehension of Army leadership dimensions, an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MSL 102 Introduction to Tactical Leadership (1)

This course covers leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Students will practice leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises.

MSL 201 Innovative Team Leadership (1)

This course examines innovative tactical leadership strategies and styles by examining team dynamics. Students practice aspects of personal motivation, team building, planning, executing, and assessment team exercises in the classroom and tactical environment. Prerequisites: MSL 101, 102 or Department approval.

MSL 202 Foundations of Tactical Leadership (2)

This course examines the challenges of leading tactical teams in a complex contemporary operating environment (COE). Continued study of the theoretical and practical basis of the Army leadership framework explores the dynamics of adaptive leadership in the context of military operations. Prerequisites: MSL 101, 102, 201, or Department approval.

MSL 205 Army Physical Fitness Training (1)

U.S. Army Master Fitness trainers supervise a comprehensive fitness program based on the latest military fitness techniques and

principles. The classes are conducted 3 days a week at Zimbar Gym and are one hour sessions.

MSL 301 Adaptive Team Leadership (2)

This course challenges the student to study, practice, and evaluate adaptive team leadership skills in preparation for the ROTC Leadership Development and Assessment Course (LDAC). Over all objectives of the course are to integrate the principles and practices of effective leadership, military operations, and personal development in preparation for the summer LDAC program. Prerequisites: Advanced placement credit.

MSL 302 Leadership in Changing Environments (2)

This course challenges and evaluates the students' ability to develop a leadership style when faced with challenging scenarios related to small unit tactical operations and the changing environment of today's Army. Over all objectives of the course are to integrate the principles and practices of effective leadership, military operations, and personal development in preparation for the summer LDAC program. Prerequisites: MSL 301 and Advanced placement credit.

MSL 401 Developing Adaptive Leaders (2)

This course develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Students will identify responsibilities of key staff, coordinate staff roles, and use battalion operational situations to teach, train, and develop subordinates through a mentoring program. Prerequisites: MSL 301, 302, and Advanced placement credit.

MSL 402 Leadership in a Complex World (2)

This course explores the dynamics of leading in the complex situations of current military operations, such as interacting with non-government organizations, international terrorism, civilians on the battlefield, and host national support. This course puts significant emphasis on preparing cadets for their first duty assignment, preparing cadets to face the complex ethical and practical demands of leading as commissioned offices in the United States Army. Prerequisites: MSL 301, 302, 401, and Advanced placement credit.

Marine Science

College of Arts and Sciences

The Faculty of Sciences
63 semester hours
See Biological Sciences on page 85.....www.esu.edu/biol

Mathematics

College of Arts and Sciences

The Faculty of Science
Science and Technology Center, Room 118
570-422-3447.....www.esu.edu/math

About the Program
The Bachelor of Arts in Mathematics is a rigorous introduction to the discipline of mathematics. Students in this program will be exposed to both applied and theoretical mathematical ideas. This program prepares students to enter graduate school for further study or to seek employment in fields that value people with well-honed quantitative and problem-solving skills.

Are you interested in...
- Working with numbers
- Formulating and solving problems
- Thinking abstractly
- Arguing logically
- Analyzing data
- Identifying patterns

Choose Mathematics at ESU
- Small class sizes
- Qualified, experienced faculty
- Frequent faculty interactions

Is mathematics a career path for me?

Career Potential
- Economist
- Financial Analyst
- Mathematician
- Statistician
- Budget Analyst
- Cryptographer

Career Settings
- Municipal, state and federal government agencies
- Pharmaceutical companies
- Financial institutions
- Engineering firms
- Market research firms

More detailed career information is available from the department.

Bachelor of Arts in Mathematics

40 semester hours
The Bachelor of Arts in Mathematics is a rigorous introduction to the discipline of mathematics. Students in this program will be exposed to both applied and theoretical mathematical ideas. This program prepares students to enter graduate school for further study or to seek employment in fields that value people with well-honed quantitative and problem-solving skills.

- **Required major courses:** MATH 140, 141, 220, 240, 311, 320, 341, 421, 425, and two math courses numbered 300 or higher, except MATH 430 and 431, 486 and 499.
- **Corequisite course:** CPSC 130.
- Please see the Foreign Language Competency Requirement in this catalog.
- Please see the university requirements in this catalog.
- **Note:** A grade of "C" or above in all courses used to satisfy the major. At least 15 credits of the mathematics courses required for this degree must be completed at East Stroudsburg University.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

MATH 140 GE: Calculus 1 or MATH 135 GE: Pre-Calculus	4 or 3
ENGL 103: English Composition	3
Foreign Language I	3
General Education Elective	3
General Education Elective	3
Subtotal	**15 or 16**

Spring

MATH 141 GE: Calculus 2 or MATH 140 GE: Calculus 1	4
CPSC 130 GE: Introduction to Computer Programming I	3
Foreign Language II	3
General Education Elective	3
Fitness Elective	2
Subtotal	**16**

Sophomore Year

Fall

MATH 220: Discrete Mathematics Structures	3
MATH 240: Multivariate Calculus or MATH 141 GE: Calculus 2	4
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

MATH 240: Multivariate Calculus	4
MATH 320: Linear Algebra	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Junior Year

Fall

MATH 311: Statistics I	3
General Education Elective	3
General Education Elective	3

General Education Elective	3
Elective	3
Subtotal	**15**

Spring

MATH 341: Differential Equations	3
MATH 425: Intro to Mathematical Modeling	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall

MATH 421: Abstract Algebra I	3
Math Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

Math Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**12**
Total Credits	**120/121**

NOTE: These suggested schedules assume eight semesters of attendance, beginning in a fall semester, and normal progress. Students should consult with their adviser to determine the best sequence of mathematics courses. Some courses are offered only in fall semesters (MATH 421) and others are only offered in the spring semester (MATH 341 and 425). Some electives are offered only once every year or once every two years, so prior planning is important.

For more information, contact the department by calling 570-422-3447 or by email at math_dept@po-box.esu.edu.

For assistance or special accommodations, call 570-422-3954.

118 Science and Technology Center 570-422-3447
www.esu.edu/math

Bachelor of Science in Mathematics - Applied Mathematics

About the Program

The Bachelor of Science in Mathematics - Applied Mathematics program provides the student with an opportunity to gain a solid and comprehensive knowledge of mathematics with an extensive introduction to one of the many areas that rely heavily on mathematics. Students in this program will have an option of including an internship experience as part of their studies.

The student must complete the core requirements and the requirements for one of the tracks to fill the requirements for this major. Track options include biology, chemistry, computer science, finance and physics.

Are you interested in...

- Hands-on working experiences
- Problem solving
- Real world applications
- Analyzing data
- Constructing mathematical models

Choose Mathematics at ESU

- Small class sizes
- Qualified, experienced faculty
- Frequent faculty interactions

Is applied mathematics a career path for me?

Career Potential

- Computer Scientist
- Actuary
- Computer Software Engineer
- Financial Analyst
- Operations Research Analyst

Career Settings

- Municipal, state and federal government agencies
- Pharmaceutical companies
- Financial institutions
- Engineering firms
- Market research firms

More detailed career information is available from the department.

Program Features

60 - 61 semester hours

This program provides the student intent on seeking employment once the bachelor's degree is completed with an opportunity to gain a solid and comprehensive knowledge of mathematics together with an extensive introduction to one of the many areas that rely heavily on mathematics. Students in this program will have an option of including an internship experience as part of their studies.

The student must complete the core requirements and the requirements for one of the tracks below to fill the requirements for this major.

- **Core Courses:** Required for all tracks: MATH 140, 141, 220, 240, 311, 320, 425, and Nine additional credits in MATH courses numbered 300 or higher, excluding MATH 351, 430, 431 and 499 (no more then three credits of MATH 486 can be applied toward these credits).
- **Corequisites:** All tracks CPSC 101, 130, ENGL 204, and CMST 111

Tracks:

- Biology Track: MATH 341, BIOL 114, 115, and 3 credits of 300 or higher level Biology courses
- Chemistry Track: MATH 341, CHEM 121, 123, 124, 126, and 3 credits of 300 or higher level Chemistry courses
- Computer Science Track: MATH 341, CPSC 130, 141, 230, 251, and 3 credits of 300 or higher level Computer Science courses
- Finance Track: MATH 280, ECON 111, 112, 332, and 3 credits of 300 or higher level Economics courses
- Physics Track: MATH 341, PHYS 161, 162, and 3 credits of 300 or higher level Physics courses

A grade of C or better in all courses used to satisfy the major.

A minimum of 15 credits of the mathematics courses required for this degree must be completed at East Stroudsburg University.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

MATH 140 GE: Calculus 1 or MATH 135 GE: Pre-Calculus	3 or 4
ENGL 103: English Composition	3
CPSC 101 GE: PC's and Their Uses in Science	3
General Education Elective	3
General Education Elective	3
Subtotal	**15 or 16**

Spring

MATH 141 GE: Calculus 2 or MATH 140 GE: Calculus 1	4
CPSC 130 GE: Introduction to Computer Programming I	4
CMST 111 GE: Speech Communication	3
General Education Elective	3
Fitness Elective	2
Subtotal	**16**

Sophomore Year

Fall

MATH 220: Discrete Mathematical Structures	3
MATH 240: Multivariate Calculus or MATH 141 GE: Calculus 2	4
Track Course 1	3 or 4
General Education Elective	6
Subtotal	**16 or 17**

Spring

MATH 240: Multivariate Calculus	4
MATH 320: Linear Algebra	3
Track Course 2	3 or 4
ENGL 204: Technical Writing	3
Subtotal	**13 or 14**

Junior Year

Fall

MATH 311: Statistics	3
Track Course 3	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

Math Track Course	3
Track Course 4	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

Math Elective	3
Math Elective	3
General Education Elective	3
General Education Elective	3
Elective	3
Subtotal	**15**

Spring

MATH 425: Intro to Mathematical Modeling	3
Math Elective	3
General Education Elective	3
Elective	3
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3447 or email at mathdept@po-box.esu.edu.

For assistance or special accommodations, call 570-422-3954.

118 Science and Technology Center 570-422-3447
www.esu.edu/math

Bachelor of Science in Mathematics - Secondary Education

About the Program

A combination of courses in mathematics and pedagogy, this major prepares students for a successful career as a mathematics teacher in grades seven to 12. In this program, which has achieved National Recognition status from the National Council of Teachers of Mathematics, students complete a full and rigorous mathematics program that satisfies state and national standards for content and which blends practical and theoretical knowledge with hands-on experiences.

Are you interested in...

- Formulating and solving problems
- Teaching ideas to others
- Being creative
- Helping others

Choose Mathematics at ESU

- Small class sizes
- Qualified, experienced faculty
- Frequent faculty interactions
- Technology

Is teaching mathematics a career path for me?

Career Potential

- Teacher of Mathematics

Career Settings

- Public schools
- Private schools
- Charter schools

More detailed career information is available from the department.

Program Features

80 semester hours

- **Required major courses:** MATH 140, 141, 220, 240, 311, 320, 351, 421, 425, 430, 431, 499; three semester hours from courses numbered 300 to 485.
- **Corequisite course:** CPSC 130.
- **Required professional education courses:** PSED 150, 250, 420, 421, 430, 431, 436, REED 350, SPED 350,
- Admission to Teacher Education Program
- 2.5 GPA in Math and 3.0 GPA overall
- **Note:** Grades of A, B, or C must be earned in all of the required MATH and CPSC courses. A minimum of 15 credits of the mathematics courses required for this degree must be completed at East Stroudsburg University.
- Please see the university requirements in this catalog.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education.

All teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

MATH 140 GE: Calculus 1 or MATH 135 GE: Pre-Calculus	4 or 3
ENGL 103: English Composition	3
PSED 150: Introduction to Teaching All Students	6
General Education Elective	3
Subtotal	**15 or 16**

Spring

MATH 141 GE: Calculus 2 or MATH 140 GE: Calculus 1	4
CPSC 111 GE: Introduction to Computer Programming	4
PSED 250: Psychology of Learners in Diverse Communities	3
General Education Elective	3
Fitness Elective	2
Subtotal	**16**

Sophomore Year

Fall

MATH 220: Discrete Mathematical Structures	3
MATH 240: Multivariate Calculus or MATH 141 GE: Calculus 2	4
General Education Elective	3
English Literature Course	3
General Education Elective	3
Subtotal	**16**

Spring

MATH 240: Multivariate Calculus or General Education Elective	4 or 3
MATH 320: Linear Algebra	3
REED 350: Teaching Reading to Communities of Diverse Learners	3
Math Elective	3
General Education Elective	3
Subtotal	**15 or 16**

Junior Year

Fall

MATH 311: Statistics I	3
MATH 351: Modern Geometry	3
SPED 350 Assessment of Student Learning and Behavior in Diverse Classrooms	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

MATH 425: Mathematical Modeling	3

MATH 431: Teaching Math Using Technology	3
PSED 420: Seminar in Secondary Education I	3
PSED 436: Teaching of Mathematics in the Secondary Schools	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

MATH 421: Abstract Algebra I	3
MATH 430: History of Mathematics	3
PSED 421: Seminar in Secondary Education II	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSED 430: Student Teaching in Secondary Education/Middle School/Junior High School	6
PSED 431: Student Teaching in Secondary Education/Senior High School	6
MATH 499: Student Teaching Internship	1
Subtotal	**13**
Total Credits	**121**

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact the department by calling 570-422-3447 or email at mathdept@po-box.esu.edu.

For assistance or special accommodations, call 570-422-3954.

118 Science and Technology Center 570-422-3447
www.esu.edu/math

Mathematics Minor

21 semester hours

- **Required courses**: MATH 140, 141, 220, 240, 320, and one MATH elective (300 level or higher).

Actuarial Science Concentration

21 semester hours

- **Required courses**: MATH 140, 141, 240, 311, 320, 411.
- The above courses should provide the student with the mathematics background needed for the first two actuarial examinations. Students who wish to take the third examination should also take MATH 480.
- **Suggested courses:** MATH 280; ECON 111, 112.
- Students must demonstrate competency in Basic Mathematical Skills before enrolling in mathematics courses numbered 100 or higher. (See Basic Mathematical Skills Competency on page 32)

Faculty

Professors:
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Course Descriptions

MATH 090 Intermediate Algebra (3)

This course covers topics from basic algebra, solutions of first degree equations and inequalities, graphing of polynomial functions, polynomial functions, polynomial algebra, solutions to linear systems of equations, exponential and logarithmic expressions. Credits may not be used toward the 120 hours required for graduation.

MATH 100 GE: Numbers Sets and Structures (3)

This course presents mathematics as a deductive science which starts with empirical observations but goes beyond the level of simple, unrelated facts. Search for patterns and, when discovered, justification of them is the essence of this course. Similarities and differences between structures of numbers, sets, and some algebraic objects are discussed. Does not apply toward the Mathematics major. Prerequisite: MATH 090 or 3 units of high school mathematics including Algebra 1 and Geometry.

MATH 101 GE: Excursions in Mathematics (3)

This introductory course deals with selected topics in contemporary mathematics applied to the social and natural sciences. Topics include voting and weighted systems, fair division, apportionment, game theory, Euler circuits, the Traveling Salesman Problem, minimum networks, scheduling, linear programming, types of growth, measurement, symmetry and patterns, collecting and describing data, elementary probability and inference. Does not apply to the Mathematics Major. Prerequisite: MATH 090 or three units of high school mathematics including Algebra I.

MATH 105 Mathematical Problem Solving for PreK to Grade 8 Education Majors (3)

This course is designed to give PreK to grade 8 Education majors experiences in being independent solvers of mathematical problems while giving them the mathematical foundation for early mathematics. Concepts in elementary education including sets, whole, integer, rational and real numbers are covered. Prerequisite: MATH 090 or three units of high school mathematics including Algebra I; Major in Early Childhood, Middle Level or Special Education.

MATH 110 GE: General Statistics (3)

This course deals with the collection and presentation of data, frequency distributions, measures of central tendency and dispersion, elementary probability, randomness, expectations, significance testing on large and small samples, correlation, regression, introduction to analysis of variance, and other common statistical methods. Does not apply toward Mathematics major. Prerequisite: MATH 090 or three units of high school mathematics including Algebra 1.

MATH 130 GE: Applied Algebraic Methods (3)

This course introduces students to mathematical modeling using linear, exponential, and power functions and systems of equations. Algebraic and geometric techniques are developed. Applications to the life, social, and management sciences include linear programming and difference equations. Does not apply toward the Mathematics major. Prerequisite: MATH 090 or three years of college preparatory high school mathematics including Algebra I and Geometry.

MATH 131 GE: Applied Calculus (3)

A one-semester introduction to the techniques of differential and integral calculus, this course will concentrate on the application of these techniques in the life and social sciences. Does not apply toward the mathematics major. Prerequisite: MATH 130 with a grade of C or higher.

MATH 135 GE: Pre-Calculus (3)

This course is designed to prepare students for calculus. Topics include equations, inequalities, functions and their graphs, polynomial, rational, exponential, logarithmic, and trigonometric functions. Prerequisites: College preparatory mathematics including Algebra 2 and Geometry and an appropriate score on the mathematics placement test.

MATH 140 GE: Calculus 1 (4)

Together with Calculus 2 and Multivariate Calculus, the basic concepts and applications of elementary analysis are covered. Calculus 1 topics include functions, continuity, the derivative and its applications, and an introduction to the definite integral. Prerequisites: MATH 135 with a grade of C or better, or four units of college preparatory mathematics including Algebra 2, Geometry, and Trigonometry and a satisfactory score on the Calculus Readiness Test.

MATH 141 GE: Calculus 2 (4)

The concept of the integral is developed in detail. Techniques of integration, applications of the integral, and an introduction to differential equations are covered. Also, infinite series of numbers and functions are used to illustrate approximation theory. Prerequisite: MATH 140 with a grade of C or higher.

MATH 205 Geometry for PreK to Grade 8 Education Majors (3)

This course is designed to give PreK to Grade 8 Education majors experiences in being independent solvers of mathematical problems while giving them the mathematical foundation for early mathematics. Topics include probability, geometry and geometric systems. Prerequisite: MATH 105; early childhood, middle level or special education major.

MATH 220 Discrete Mathematical Structures (3)

This course introduces some basic concepts of finite algebraic structures. Topics covered include logic, sets, induction, matrices, order relations, Boolean algebras, semigroups, and groups. Prerequisite: MATH 140.

MATH 240 Multivariate Calculus (4)

This course develops calculus of several variables. Topics covered include vectors, functions of many variables and their derivatives and integrals, optimization, parametric curves and surfaces, and applications. Prerequisite: MATH 141 with a grade of C or higher.

MATH 280 Mathematics of Finance (3)

This course consists of an introduction to the theory and mathematics of simple and compound interest with application to and emphasis on annuities, sinking funds, amortization, life insurance, stocks, bonds, and installment buying. Prerequisite: MATH 130.

MATH 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the curriculum.

MATH 311 Statistics I (3)

This course gives a rigorous introduction to descriptive statistics, discrete and continuous probability distributions, sampling estimation, and hypothesis testing. Prerequisite: MATH 141.

MATH 320 Linear Algebra (3)

This course deals with the arithmetic of matrices, linear transformation of the plane, algebra of determinants with applications to the systems of linear equations, vector spaces, characteristic values and their application. Prerequisite: MATH 220.

MATH 341 Differential Equations (3)

This course examines solutions of first order differential equations, linear equations of higher order, numerical techniques of solution, power series methods, LaPlace transform, and applications. Prerequisite: MATH 240 or permission of instructor.

MATH 351 Modern Geometry (3)

Problem solving in geometry will be the main focus of this course. Three types of problems are studied. The first will be straightedge and compass constructions from Euclidean Geometry. The next will develop the Newton-Poincare model of Lobachevskian Geometry. The third will be isometries of the Euclidean plane. Prerequisite: MATH 220.

MATH 360 Introduction to Combinatorics (3)

This course introduces the basic techniques and modes of reasoning of combinatorial problem solving. Topics covered include elementary counting principles, permutations and combinations, the inclusion/exclusion principle, recurrence relations, basic properties of graphs and digraphs, trees, graph coloring, and Eulerian and Hamiltonian circuits. Prerequisite: MATH 220.

MATH 411 Statistics II (3)

The mathematical properties of the sampling distributions of statistics will be investigated to develop criteria for precise estimation, powerful hypothesis testing, and assessing the robustness of model assumptions. Emphasis will be placed on the classical methods associated with the normal distribution and to the analysis of real data with linear models. Standard software packages will be used. Prerequisite: Math 311.

MATH 416 Linear Statistical Modeling Methods with SAS (3)

This course is intended for advanced undergraduate students, graduate students, and working professionals who engage in applied research. Statistical linear modeling methods are used in conjunction with SAS computer software to analyze data from experiments and observational studies. Topics include regression analysis, analysis of variance, multiple comparisons and multiple tests, mixed models, analysis of covariance, logistic regression, and generalized linear models. Prerequisites: Satisfactory completion of a college course in statistics.

MATH 420 Number Theory (3)

This course deals with the study of the divisibility properties of integers, the theory of congruences, continued fractions, linear diophantine equation in one variable and more than one variable,

algebraic number fields, and rings of algebraic integers. Prerequisite: 12 hours of college mathematics.

MATH 421 Abstract Algebra (3)

This course will introduce the students to the basic algebraic structures, including groups, rings and fields. Prerequisites: MATH 220, 240.

MATH 425 Introduction to Mathematical Modeling (3)

This course initiates the construction, analysis and research of real world mathematical models in order to promote creativity and emphasize ingenuity for finding reasonable solutions to open-ended problems, including experimentation and simulation. The study of theoretical model types is left for more advanced courses. Prerequisites: MATH 240, 320

MATH 430 History of Mathematics (3)

This course studies the biographies of leading mathematicians and their contributions to mathematics, the historical development of subject-matter fields of mathematics, and the role that mathematics has played in the development of civilization. Prerequisite: MATH 220, 240

MATH 431 Teaching Mathematics Using Technology (3)

This course is designed for pre-service and in-service teachers of secondary mathematics. It is a capstone course in both mathematics and the technology used in the mathematics classroom. Students will use various calculators and computer programs to solve significant problems and prepare lessons in calculus, statistics and geometry. This course may not be used as an elective for the B.A. in Mathematics or the B.S. in Applied Mathematics. Prerequisites: 24 credits of mathematics (140 or higher) or graduate standing in Mathematics Education.

MATH 440 Real Analysis (3)

This course introduces students to the basic analytical structures of the real number and functions, including limits, sequences, series, topology, and continuity. Prerequisites: MATH 220, 240.

MATH 445 Mathematics in Modern Technology (3)

This course is designed to introduce the student to some of the contemporary mathematical practices that have been developed to address problems relating to such technologies as digital image compression, edge detection and signal de-noising. Using appropriate software the students will learn how to model a variety of filters and advanced mathematical transformations and to apply them to real-life problems. Prerequisite: MATH 141 and 320.

MATH 470 Numerical Methods (3)

This course will develop the numerical algorithms and error estimates for finding roots, solving equations, and curve fitting. The emphasis is on algorithms with good error characteristics and reduction of round off error. Prerequisites: MATH 240, 320; CPSC 111 or 211.

MATH 480 Operations Research (3)

This course gives an introduction to both deterministic and stochastic operations research. The covered topics will include the nature of operations research, linear programming, project scheduling, dynamic programming, integer programming, queuing theory and stochastic simulation. Prerequisites: MATH 311 and 320 with grades of C or higher.

MATH 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular academic discipline.

MATH 486 Applied Mathematics Internship (Semester hours arranged)

This course consists of in-depth involvement in an environment that focuses on the use of mathematics to model and solve industrial, administrative, business or governmental problems. The student will work under direct professional supervision. Prerequisites: MATH 220, 240, 311, and 320.

MATH 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy.

Media Communication and Technology

College of Education

Rosenkrans Hall East

570-422-3763.....www.esu.edu/mcom
http://www4.esu.edu/academics/majors2/programs/mcom/mcom.cfm

About the Program

Bachelor of Science in Media Communication and Technology

The Media Communication and Technology Department (MCOM) prepares media generalists in both theory and application of media communication concepts and techniques. Eleven theoretical and hands-on foundation courses in animation, video, television, graphics, audio, photography, web design and media theory are required. Advanced level elective courses offer students specialization in media production or expansion into new and emerging technologies.

Student-run and MCOM faculty-supervised television and photography clubs are available. Students from the Television Club and MCOM are engaged in media productions that support local athletic, non-profits and other agencies. Productions are aired over cable television.

Associate of Applied Science in Media Paraprofessional Program

This two-year technically oriented program is designed for students seeking to develop media production skills. Completion of the program prepares students for entry-level positions in the field of communication. Students may transfer into the four-year bachelor of science degree program.

Internships

The internship experience provides a unique learning experience. The internship experience is in a professional environment where the course work competencies are applied and refined. In planning for an internship, students are advised to discuss career goals, qualifications and potential internships with their academic adviser and department faculty. In most cases, students should have completed basic and advanced courses in the media production area in which they plan to intern.

Is Media Communications and Technology a career path for me?

Career Potential

- Multimedia producer and/or director
- Television, video, and motion production
- Photographer
- Animation
- Graphic design and web media production

Career Settings

- Television and audio studios
- Animation
- Photography studios
- Print publications
- Multimedia companies
- Web design and web media companies

More detailed career information is available from the department.

Are you interested in...

- Audio, video, and high definition television production
- Animation and graphics
- Web design and web media publishing
- Photography

Choose Media Communication and Technology at ESU

- Student media productions
- Small class size, professional level software and hardware
- Close faculty interaction
- Professional full semester internship experiences

Bachelor of Science in Media Communication and Technology

Program Features:

48 Semester Hours

- **Required core courses:** MCOM 105, 110, 140, 160, 210, 230, 255, 315, 375, 440, 495; any three of prescribed advanced MCOM courses; and completion of 6 semester hours of related electives.
- **Co-requisites:** CMST 111 or 253; PSY 100; SOC 111, and an advanced writing course.
- **Track I Internship:** (12 semester hours) A 2.75 grade average in MCOM courses, no incompletes in MCOM courses, and faculty approval are required before enrolling in an internship. Notice to the academic adviser or intent to apply for internship must be made upon completion of 80 semester hours and before completing 90 semester hours.

OR

- **Track II:** (12 semester hours) A minimum of nine additional hours of 300 or 400 level MCOM courses and three hours of 200 level MCOM courses or related electives.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

MCOM 105: Photography: Camera Techniques	3
MCOM 140: Communication Theories and Practices	3
MCOM 110: Introduction to Motion Media	3
General Education	3
General Education	3
Subtotal	**15**

Spring

MCOM 160: Introduction to Multimedia	3
MCOM 210: Television: Studio Production	3
MCOM 230: Sound Recording and Amplification Techniques	3
General Education	3
General Education	3
Subtotal	**15**

Sophomore Year

Fall

MCOM 315: Electronic Field Production	3
MCOM 255: Desktop Publishing	3
General Education	3
General Education	3
General Education	3
Subtotal	**15**

Spring

MCOM 375: Imaging Technology	3
General Education	3
General Education	3
General Education	3
Elective	3
Subtotal	**15**

Junior Year

Fall

Advanced MCOM course: 305, 310, 350, 355, 464 or 477	3
MCOM 440: Law and Ethics in Media	3
General Education	3
General Education	3
Elective	3
Fitness	1
Subtotal	**16**

Spring

Related Elective	3
Advanced MCOM courses: 305, 310, 350, 355, 464, or 477	3
General Education	3
General Education	1
Related Elective	3
Fitness	1
Subtotal	**14**

Senior Year

Fall

Advanced MCOM course: 305, 310, 350, 355, 464, or 477	3
General Education	3
Elective	4
MCOM 495: Seminar in Media Communications and Technology	3
Advanced Writing Course	3
Subtotal	**16**

Spring

MCOM 486: Field Experience and Internship	12
Subtotal	**12**
Total Credits	**12**
	0

For more information, contact the department by calling 570-422-3763 or e-mail Richard Otto at rotto@po-box.esu.edu

Rosenkrans Hall East 570-422-3763

Media Communication and Technology Minor

Program Features:

18-21 Semester Hours

This program offers a choice of one of four different tracks: Photography, Graphics, Interactive or Video. Selection of one of these minors is done after consultation with the appropriate faculty adviser in the student's major and/or the chair of the Department of Media Communication and Technology.

- **Track Requirements:**
- **Interactive:** MCOM 160, 255, 355, 375, 477, 478
- **Photography:** MCOM 105, 140, 160, 205, 305.
- **Graphics:** MCOM 105, 140, 160, 255, 350.
- **Video:** MCOM 105, 110, 140, 160, 210, 230, 315.

Faculty

Professor:

Elzar Camper, Chair (ecamper@po-box.esu.edu)

Associate Professors:

Susan Bonser (sbonser@po-box.esu.edu)

Gary Braman (gbraman@po-box.esu.edu)

Beth R. Sockman (bsockman@po-box.esu.edu)

Assistant Professors:

Yi-hui Huang (yhuang@po-box.esu.edu)

Richard Otto (rotto@po-box.esu.edu)

Media Paraprofessional Program

Coordinating Department:
Media Communication and Technology

Rosenkrans Hall East

570-422-3763.....www.esu.edu/mcom

This two-year technically oriented program is designed for students seeking to develop media production skills.

Completion of the program prepares students for entry-level positions in the field of communication. Students may transfer into the four-year bachelor of science degree program.

Associate of Applied Science in Media Paraprofessional Program

Program Features:

60 Semester Hours

- **Required core courses:** MCOM 105, 160, 210, 230, 255, 315, 375, and 486 (12 credits); six semester hours of advanced level MCOM 305, 310, 318, 350, 410, 440, 464, 475, 478, 495
- **Corequisites:** ENGL 103, advanced English Writing course, and 12 credits as approved by adviser.

Course Descriptions

MCOM 001 Information Highway: Coming up to Speed (0)

This one-day workshop will focus on the electronic information highway now being developed. The sessions will introduce e-mail, Internet, etc. to the novice user and will offer a diverse mix of computer practice, public policy, and simplified media presentation techniques.

MCOM 100 Black and White Photo I (3)

Introductory Technique in black and white still photography including camera operation, lens use, darkroom techniques (developing and enlarging), and photography are presented.

MCOM 105 Introduction to Digital Photography (3)

This course will consist of picture taking, analysis, and technique applications. General topics include how a camera works, lighting, composition and how to take better pictures, how to choose and use digital photographic equipment and related accessories, and how to apply digital techniques to enhance and display images.

MCOM 110 Introduction to Motion Media (3)

This course presents the common elements of basic motion media production. It includes the study of the theoretical, photographic, mechanical, and electronic methods used in the production of motion media. In addition to studying the various aspects of motion media, students will also produce motion media projects.

MCOM 140 Communication Theories and Practices (3)

Communication theories, practices, problems, and issues in a variety of settings are examined. This is a foundation survey course for the majors in the Media Communication and Technology program.

MCOM 160 Introduction to Multimedia (3)

This course introduces basic software and develops skills in message design, graphic design, and interactive web design. The course is a prerequisites for most of the other courses in the department.

MCOM 205 Photography: Wildlife and Nature (3)

Methods for photographing wildlife and nature are explored. Equipment needs, fieldwork techniques, and special considerations necessary in performing wildlife and nature photography will be emphasized.

MCOM 210 Television: Studio Production I (3)

Television studio production techniques including directing, lighting, audio, and camera operation are covered with actual practice and application in the TV studio. Students will script and produce a variety of television programs.

MCOM 230 Sound Recording (3)

This course offers preparation necessary for successful activity in sound recording and reinforcement. It deals with the history of recorded sound, technical principles of microphone usage, console operations, multi-track recording and sound reinforcement in both analog and digital formats. The course includes hands-on experience in recording and editing sound in a variety of productions.

MCOM 255 Desktop Publishing (3)

This course provides the student with the necessary skills to design and produce layouts that would be used in various print media formats. Topics include: graphic design, publication layout, typography, print media formats, image formats and type specification.

MCOM 262 Educational Communications and Technology (3)

Techniques in the preparation, selection, and proper use of media for educational communications are presented. Included are the design, preparation, and selection of still photographs, motion pictures, audiotape, videotape, transparencies, and microcomputer software.

MCOM 265 Instructional Computing Methods (3)

Techniques of using computers in the classroom will be presented. Students will become familiar with software and computer tools used for instructional and classroom administrative tasks. Prerequisite: MCOM 262.

MCOM 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the University curriculum.

MCOM 305 Intermediate Digital Photography (3)

Students will create photographic images in a variety of situations. These photographs will be manipulated using computer technology to create images that can be used in various media formats. Prerequisites: MCOM 105 and 160.

MCOM 310 Television: Studio Production II (3)

Studio production techniques beyond those presented in Television: Studio Production I including electronic special effects, computer graphics and the directing of programs to be broadcast from a television studio are covered. Prerequisite: MCOM 210.

MCOM 315 Electronic Field Production (3)

This course is designed for the acquisition of practical experience in electronic field production and post-production editing. Advanced skills in field directing, lighting and audio work will be developed. Students will effectively produce, direct and edit a variety of field based media programs. Prerequisites: MCOM 105 and 110.

MCOM 318 New Media Technologies (3)

This course introduces students to new media development including interactive media, games, television, and the on-line world. The rapidity of change in media product development in photography, graphics, television audio/video and evolving regulatory communications policy will be discussed. The work for this class includes reading articles, analyzing existing systems, designing innovative interfaces, and class field trips. Prerequisite: MCOM 140.

MCOM 350 Media Graphics and Design (3)

This is an advanced level course which expands upon the concepts presented in Desktop Publishing. This course concentrates on producing layouts to be used in various media formats. Classroom demonstrations are presented, and students gain hands-on experience through work on assigned projects. Prerequisite: MCOM 255.

MCOM 355 Electronic Publishing (3)

Students will learn the basics of producing electronic publications which can be used for various media including the Internet. Assignments will give students hands-on experience in designing and producing Web pages. Topics include: Web page design, anatomy of the Internet, proper use of type and graphics in electronic publishing, creating links and integration of various media into electronic publications. Prerequisite: MCOM 255.

MCOM 375 Imaging Technology (3)

This course offers advanced use of image design and production for education, marketing, business, and training. Extensive work will be on the use of the microcomputer as a tool in image creation. Animation, 3D effects, and overlay techniques will be introduced. Prerequisite: MCOM 160, 255.

MCOM 410 Advanced Digital Production (3)

This course is designed to teach direction, camera operation, production, sound, lighting and other components for digital and high definition (HD) production. Webstreaming and multi-media convergence applications will be studied and utilized in projects. Prerequisite: MCOM 210 and 315 or permission of instructor.

MCOM 440 Law and Ethics in Media (3)

This course offers an examination of the role of ethics and legal issues in the field of professional media. Students will study how society's ethical heritage provides a basis for guidance in ethical decision-making. Prerequisite: MCOM 140 and junior class standing.

MCOM 464 Media Communication and Technology Projects (Semester hours arranged)

Students are provided with the opportunity to work on an in-depth project which presents experiences in planning, implementation, and follow-up activities. Projects are done with a cooperating faculty member. Prerequisite: 90 credit hours.

MCOM 475 Educational Software for Computers (3)

Techniques for designing and developing educational courseware for computers are presented. Author language systems and interactive instructional system software will be examined. Students will also learn to develop materials which combine computer and video technologies (interactive video). Prerequisites: MCOM 262, 470.

MCOM 477 Interactive Media (3)

This course is designed to introduce the student to the technology of interactive media. Special emphasis is placed on the various applications for interactive media. Students will gain practical experience in creating interactive media programs. Prerequisite: MCOM 160, 375.

MCOM 478 Introduction to Interactive 3D (3)

This course is designed to introduce students to technology for interactive 3D. Students will create interactive, virtual worlds by utilizing 3D modeling techniques and interaction design principles. A mix of theory and hands-on experiences provides students with opportunities to create small games, visualizations and training applications. Prerequisite: MCOM 160, 375.

MCOM 485 Independent Study (Semester hours arranged)

Directed research and study on an individual basis.

MCOM 486 Field Experiences and Internship (Semester hours arranged)

The internship experience is to provide professional supervision in an on-the-job situation to apply skills learned in the university classroom. Enrollment requires the completion of 90 semester hours, a 2.75 cumulative point average in the major, no incompletes in the major, and departmental approval.

MCOM 488 Professional Practicum (2)

Students are provided with insights into professional experiences and job requirements through an examination of the activities of the internship. This course must be taken concurrently or the semester immediately following MCOM 486. Prerequisites: Senior class standing; approval of instructor.

MCOM 495 Seminar in Media Communications and Technology (3)

Seniors will engage in discussion and research on current media, communications and technology literature, theory, applications, and how to read and analyze research designs, methods, and assessments. Field experiences such as conferences, workshops, and interactive experiences with practitioners will be provided. Required for all Media, Communication and Technology majors prior to internship or degree completion. Prerequisite: MCOM 140, 440.

Music

College of Arts and Sciences

The Faculty of Arts and Letters
Fine and Performing Arts Center, Room 205
570-422-3694.....www.esu.edu/mus

About the Program
Music majors and minors, as well as anyone at East Stroudsburg University with an interest in music, have many opportunities to develop their skills through numerous performances on and off campus. Individual talents are nurtured through personalized instruction in voice, piano, guitar, band, and string instruments.

Presentations by guest artists provide students with an opportunity to hear and interact with world-class musicians.

All concerts take place in the 300-seat Cecilia S. Cohen Recital Hall, with its outstanding acoustics.

Potential students are always welcome to visit the department or to attend one of the many presentations through the academic year.

Choose Music at ESU
- Qualified, experienced faculty
- Small class size
- Close faculty interaction
- Opportunities for participation in multiple performing groups
- Individual applied vocal and instrumental lessons

Performance Opportunities:
- Concert Choir
- University/Community Concert Band
- University/Community Orchestra
- Brass Ensemble
- Woodwind Ensemble
- Warrior Marching Band
- A Cappella Ensemble
- University Singers
- University Jazz Ensemble
- More information is available from the department.

Bachelor of Arts in Fine Arts - Music

Screening into the major will be by audition and/or meeting with adviser in the area of concentration

- **Required Core Courses** (21 credits): MUS 203, 220, 211, 311, 320,410, and 496 Senior Seminar (or ART 496 or THTR 496)
- **Corequisites**: Any (9) credits in ART and any (9) credits in THTR

Senior Seminar will consist of a major recital (Applied Music concentration majors and/or Jazz Studies concentration majors) a lecture-presentation conducting experience with one or more of the university ensembles (to include program notes), or a research project (Music Theory/History/Literature majors and/or Jazz Studies concentration majors not doing a recital).

All students are required to pass a basic piano proficiency consisting of:

- One prepared piece equivalent to a late beginner level of Anna Magdeline Book of Piano Literature
- One sight-reading piece equivalent to a standard hymn

Completing two semesters of piano class (MUS 110 and MUS 111) with a grade of C or better will fulfill this requirement.

Applied Music Concentration (48 credits)
- 21 credits of core music credits
- 12 credits of applied music (MUS 160, 161, 260, 360, 361, 460, 162, 163, 262, 362, 363, 462, 463, 164, 165, 264, 265, 364, 464, 465)
- 15 credits from the following electives: MUS 204, 245, 304, 306, 370, 400, 403 and any 400 level in Applied Music (4 credits maximum)

All students are required to participate in a major performing ensemble each semester. Piano majors may fulfill this requirement by serving as an accompanist for major performing ensembles and/or recitals.

Jazz Studies Concentration (48 credits)
- 21 credits of core music credits
- 8 credits of applied music (MUS 160, 161, 260, 360, 361, 460, 162, 163, 262, 362, 363, 462, 463, 164, 165, 264, 265, 364, 464, 465)
- 13 credits from the following electives: MUS 204, 306, 315, 403 and 404 (this may be taken twice towards degree)
- 6 additional credits of music electives

All students are required to participate in either the ESU Jazz Ensemble or the ESU Pop/Jazz Singers each semester.

Music Literature and Theory Concentration (45 credits)
- 15 credits of core music credits
- 12 credits of Music Literature from the following: MUS 204, 304, 315, 400, 404
- 4 credits of Keyboard Music Theory (MUS 370 & 403)
- 8 credits of music electives

All majors are required to attend a minimum of four recitals each semester. The concerts must be varied in content and may not be one in which the student is performing.

Other Requirements: Students must have a minimum:
- QPA of 2.5 in MUS courses
- 12 credits in MUS courses at the 300-400 level
- 18 credits in MUS course completed at East Stroudsburg University

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

MUS 220: Music Theory I	3
Ensemble	1
Applied Lesson	2
ART 101: Introduction to Art or THTR 100: Introduction to Theatre	3
ENGL 103: English Composition	3

General Education Course	3
Subtotal	**15**

Spring

Music 320 Music Theory II	3
Ensemble	1
Applied Lesson	2
ART 101: Introduction to Art or THTR 100: Introduction to Theatre	3
General Education Course	3
General Education Course	3
Subtotal	**15**

Sophomore Year

Fall

MUS 203: Jazz and Popular Music	3
MUS 225: Ear Training & Music Reading I	2
Ensemble	1
Applied Lesson	2
General Education Course	3
General Education Course	3
Fitness Course	1
Subtotal	**15**

Spring

Music Elective	2
Ensemble	1
Applied Lesson	2
ART or THTR Course	3
General Education Course	3
General Education Course	3
Fitness Course	1
Subtotal	**15**

Junior Year

Fall

MUS 211: Music of Renaissance and Baroque Era	3
Ensemble	1
Applied Lesson	2
ART or THTR Course	3
General Education Course	3
General Education Course	3
Subtotal	**15**

Spring

MUS 311: Music of Classical and Romantic Era	3
Ensemble	1
Applied Lesson	2
ART or THTR Course	3
General Education Course	3
General Education Course	3
Subtotal	**15**

Senior Year

Fall

MUS 410: 20th Century and American Music	3
Ensemble	1
Applied Lesson	2
Music Elective	3
ART or THTR Course	3
General Education Course	3
Subtotal	15

Spring

MUS 496: Fine Arts Seminar	3
Ensemble	1
Applied Lesson	2
Music Elective	3
Music Elective	3
ART or THTR Course	3
Subtotal	**15**
Total Credits	**120**

For more information, contact the department by calling 570-422-3694 or visit www.esu.edu/mus

Music Minor

A music minor is taken in conjunction with another major course of study.

18 semester hours
One three-credit music history courses at the 200 level or above.
One three-credit music theory at the 200 level or above.
Three credits of a performance ensemble or applied lessons.
Nine credits of music courses at the 300-400 level

Faculty

Professor:
Patrick Dorian (pdorian@po-box.esu.edu)

Associate Professors:
Otis French (ocfrench@po-box.esu.edu)
James Maroney (jmaroney@po-box.esu.edu)

Associate Professor:
Betsy Buzzelli-Clarke, Chair (bbuzzelli@po-box.esu.edu)

Course Descriptions

*Courses marked with * fulfill the requirements for Fine Arts.*

*Courses marked with ** fulfill the requirements for Performing Arts.*

MUS 100 GE: Introduction to Music (3)*

This course is a survey of western music from the Pre-Renaissance to the present; styles and musical periods are studied and correlated with other areas of learning; listening both in and out of class is stressed.

MUS 101 GE: Fundamentals of Music (3)*

This course is designed to give students basic knowledge and skills in music reading, theory or harmony, and aural theory so that they can intelligently read, sing, and perform a simple musical score or diatonic melody. It is recommended that the course be taken during the semester prior to enrolling in Music Theory I.

MUS 105 GE: Popular Music from Mozart through the New Millennium (3)

This course will examine popular music from the classical period through today. Students will compare and contrast the diverse styles of popular music genres throughout the various time periods. Political, social, cultural, and historical influences upon music will also be discussed.

MUS 110 GE: Piano Class I (2)**

This course provides elementary class instruction in piano and keyboard harmony and harmonic materials applicable to the piano. An individual approach is used.

MUS 111 GE: Piano Class II (2)**

This course is a continuation of the study of material in MUS 110. Since an individual approach is used, this course may be elected more than once for credit. Prerequisite: MUS 110.

MUS 113 GE: Class Voice (2)**

Group voice instruction for the beginning singer will include emphasis upon posture, breathing, voice building, and the appropriate vocal literature which will develop the full potential of each student.

MUS 115 GE: Guitar I (2)**

This is a course that includes elementary class instruction in classic guitar technique and performance, fingerboard harmony, and applied music theory. An individual approach is used.

MUS 116 GE: Guitar II (2)**

This course is a continuation of the material studied in MUS 115 with an emphasis on sight-reading and performance. Since an individual approach is used, this course may be elected more than once for credit. Prerequisite: MUS 115.

MUS 130 GE: Concert Choir (1)**

The Concert Choir is the university's large mixed voice choral group. Rehearsals stress the preparation of high quality choral music from various periods of music history and in various musical styles. Musical skills such as reading musical notation, ensemble blend, tone quality, and proper interpretation are emphasized at rehearsals. Public performances may be scheduled by the group's director.

MUS 134 GE: Marching Band (1)**

The University Marching Band is open to all university students with prior experience at the high school or college level, or with permission of the instructor. The group will be exposed to both standard marching band music and accompanying drill movements. Emphasis will be placed on developing musicianship in the areas of intonation, rhythm and balance, as well as visual effect. The ensemble may be taken for credit or no credit. Prerequisite: Attendance at Band Camp one week prior to Fall semester.

MUS 135 GE: University/Community Concert Band (1)**

The University/Community Concert Band is open to all university and community instrumentalists with previous experience in high school and/or college band. This group will be exposed to standard concert band literature, marches, musical show selections, and pop music. Emphasis will be on developing musicianship, especially tone, blend, balance, intonation, rhythmic accuracy, and sight-reading. Public performances may be scheduled by the group's director.

MUS 140 GE: University/Community Orchestra (1)**

The University/Community Orchestra is open to all university and community instrumentalists with prior experience at the high school or college level. The group will be exposed to standard orchestral literature as well as seasonal and popular music. Emphasis will be placed on developing musicianship in the areas of intonation, rhythm, sight-reading, and the nuances of playing in an ensemble.

MUS 160, 161, 260, 261, 360, 361, 460, 461 GE: Applied Music: Piano (2)**

This course offers the private music study of developmental skills as it relates to tone production, phrasing, and other performance related concerns. Repertoire and technique requirements will be selected by the instructor. Prerequisite: Permission of instructor who will assign the course number based on the student's prior experience and skill level.

MUS 162, 163, 262, 263, 362, 363, 462, 463 GE: Applied Music: Voice (2)**

This course offers the private music study of developmental skills as it relates to tone production, phrasing, and other performance related concerns. Repertoire and technique requirements will be selected by the instructor. Prerequisite: Permission of instructor who will assign the course number based on the student's prior experience and skill level.

MUS 164, 165, 264, 265, 364, 365, 464, 465 GE: Applied Music: Band/Orchestra Instruments (2)**

This course offers the private music study of developmental skills as it relates to tone production, phrasing, and other performance related concerns. Repertoire and technique requirements will be selected by the instructor. Prerequisite: Permission of instructor who will assign the course number based on the student's prior experience and skill level.

MUS 203 GE: Discovering Jazz (3)*

This course traces the evolution of jazz from roots in African, European, and American folk music to its emergence as a new art music that is indigenous to the U.S.A. The stylistic genres of jazz history are studied including Dixieland, Blues, Ragtime, Bebop, Free Jazz, and Jazz Rock Fusion. These styles are also discussed in their relationship to popular music. Recordings are studied to exemplify the skills of major jazz artists and the styles with which they are associated.

MUS 204 GE: Musical Theatre (3)*

This course is a broad study of the various elements and repertoire that constitute musical theatre. This study will examine the music, characters, plots of specific works relating them to the music, and artistic achievement, characters, historical significance, social relevance, and performance practices. Material will cover various aspects of musical comedy, operetta, cabaret, and opera. This is a general course for all students interested in broadening their awareness of the form.

MUS 211 GE: Music of the Renaissance and Baroque Era (3)*

This course is a survey of the development of musical art form from ancient times to around 1750. Music listening is an integral part of the course. Prerequisite: MUS 100.

MUS 220 GE: Music Theory I (3)*

This course begins with a review of basic music fundamentals and continues with the study of harmonic progressions in the major and minor mode, principles of voice leading, first inversion and second inversion chords, figured bass, function and structure of melody, non-harmonic tones, harmonization of a melody, and sight singing and dictation activities. Prerequisite: MUS 101 or equivalent experience.

MUS 225 Ear Training and Music Reading I (2)*

This course is designed to develop skills in aural perception of music through melodic/rhythmic performance & dictation, and harmonic identification. Students will learn to perform and identify melodies in major keys with solfege, major/minor intervals within the octave, and basic rhythm patterns in essential simple and compound meters. Students will also learn to recognize chord voicings and progressions integral to Western music compositional techniques. Prerequisite: MUS 101.

MUS 226 Ear Training and Music Reading II (2)*

This course is designed as a continuation of MUS 225, further developing skills in aural perception of music through melodic/rhythmic performance & dictation, and harmonic identification. Students will learn to identify and sing melodies with wide intervals, minor keys and chromaticism. They will also learn to identify and perform rhythm patterns featuring dotted rhythms, triplets, syncopations, and diverse meters. Students will learn to recognize more advanced chord progressions, including those with inversions and dominant seventh chords. Prerequisite: MUS 225

MUS 240 GE: University Singers (1)

The Pop Singers are a medium-sized select ensemble of mixed voices that focus on popular, folk, and Broadway show music. Rehearsals stress all the usual vocal musical skills and, in addition, those special musical and show business techniques that are needed for the successful rendering of music in these styles. Prerequisite: Permission of the instructor. Public performances may be scheduled by the group's director.

MUS 241 Instrumental Chamber Ensemble (1)**

Special ensembles are formed to perform instrumental chamber music works. Ensembles may include a variety of combinations, i.e. strings, woodwinds, brass, percussion, piano, etc. Participants must be prepared to perform works either in recital or for a faculty jury at the conclusion of the semester. Prerequisite: Permission of instructor.

MUS 242 GE: University Jazz Ensemble (1)**

This group will consist of the following instrumental sections: saxophone, trumpet, trombone, and rhythm. The music rehearsed will reflect a wide variety of jazz styles with emphasis on the development of good ensemble techniques, rhythmic accuracy, tonal balance, intonation, improvisation, and sight reading skills. Prerequisite: Permission of instructor. Public performances may be scheduled by the group's director.

MUS 243 A Cappella Ensemble (1)**

A Cappella Ensemble is a medium-sized select group of mixed voices specializing in unaccompanied choral masterpieces from the Renaissance to the 21st century. Enrollment is only by permission of instructor through audition. Rehearsals stress good musicianship, music reading skills, choral tone, blend, and intonation, as well as the learning of different performance styles and languages. The group performs every semester on campus, and additional public performances may be scheduled by the director. The course can be repeated for credit. Prerequisite: Enrollment by audition.

MUS 245 GE: Jazz Improvisation I (2)**

This course explores jazz scales and modes so that instrumentalists and vocalists develop fluency in various jazz styles. By using practice patterns in all keys, transcribed solos, recordings of the jazz masters, and play-along records, students will approach the goal of playing what they hear in their minds. Prerequisite: Permission of instructor.

MUS 250 GE: American Movie Music (3)*

This course emphasizes and explores the connection of American music to film via exceptional American composed scores and the use of American popular music. Basic musical terms and concepts will be applied toward communication about music as sound, and music's relation to the visual aspects of movies. Films will be experienced from not only an auditory perspective, but also from the perspective of American culture and sociology, analyzing American music's effect on many aspects of a film. Prerequisite: MUS 100 or CMST 163.

MUS 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

MUS 304 GE: Opera for Everyone (3)*

Through the use of videos, popular operas will be studied in complete and abridged versions with English subtitles. Emphasis will be placed on characters, plot social historical significance, and vocal performance styles. A research project will be required. Prerequisite: MUS 100 and/or MUS 204.

MUS 306 GE: Jazz Improvisation II (2)**

This course is a continuation of Jazz Improvisation I (MUS 245) and explores advanced rhythms, harmonic structures, minor modes, whole-tone scales, and chord substitutions. Transcribed solos of the jazz masters are analyzed while participants improvise using the above elements. Prerequisite: MUS 245.

MUS 311 GE: Music of the Classical and Romantic Era (3)*

This course consists of discussion and study of the background of classicism and romanticism as it applies to music: forms, content, types of music and their application to the Classic and Romantic periods including correlations with various economic, political, and social phases of the periods. Prerequisite: MUS 100.

MUS 315 GE: The Art of Film Music (3)*

This course will concentrate on how to listen to a film in an analytical and critical manner. This will allow film music to go from being an unconscious experience to a conscious experience. It will focus on the evolution of the unique art of film music, especially its meanings, functions, associations, techniques, and styles. Topics will include the interaction between visual and musical elements; significant film scores/soundtracks and composers; and technological, sociological, practical, and aesthetic issues. Prerequisites: MUS 100 or CMST 163.

MUS 320 Music Theory II (3)*

This course is a continuation of MUS 220. Further aspects of music theory to be explored include cadence types, harmonic rhythm, dominant seventh chords, secondary dominants, modulation, and more complex sight singing and diction activities. Prerequisite: MUS 220.

MUS 343 GE: Brass Ensemble (1)**

This course consists of a select instrument ensemble composed of instruments of the brass family. The course is offered as proper

instrumentation warrants. Prerequisite: MUS 135 or permission of instructor. Public performances may be scheduled by the group's director.

MUS 344 GE: Woodwind Ensemble (1)**

This course consists of a select instrumental ensemble composed of instruments of the woodwind family. The course is offered as proper instrumentation warrants. Prerequisite: MUS 135 or permission of instructor. Public performances may be scheduled by the group's director.

MUS 370 Keyboard Harmony (2)*

This course is designed to develop the musician's ability to invent and organize musical ideas at the piano. Emphasis is placed on harmonizing and transposing melodies with appropriate easy accompaniment, working with harmonic progressions, reading figured bass accurately, reducing easy choral and instrumental scores at the piano, and improvisation. Prerequisite: MUS 101 or equivalent experience, permission of instructor.

MUS 400 Keyboard Literature (3)

This course is a historical survey of music for harpsichord and piano from the Renaissance to the Twentieth Century. The course emphasizes keyboard composers, style, forms, and performance. Prerequisite: MUS 100, one of MUS 211, 311, or Applied Music: Piano.

MUS 403 Jazz Keyboard Chords (2)

Students will learn to perform standard jazz chords with extensions in major and minor keys on a keyboard. Standard chord voicings for two hands and left hand only will assist auditory training, knowledge of music theory, and some jazz improvisation. Students will accompany pre-existing melodies with jazz chords. Prerequisite: MUS 245; MUS 306.

MUS 404 Jazz Masters Seminar (1-3)

Students will study the lives, music, and careers of several accomplished, active jazz professionals. Each artist will then be a guest speaker, interacting with the class. Writing assignments will make this the culminating academic jazz experience. Prerequisite: Any two: MUS 100, 203, 242, 245,306, 403, 492, 496.

MUS 405 Choral Reading Techniques Workshop (1)

This course will emphasize various approaches to reading choral music in terms of diction, nuance, rhythm, phrasing, and dynamics. Nationally known guest conductors and composers will present several sessions where participants will execute reading techniques as an ensemble. Prerequisite: 90 undergraduate credit hours or permission of instructor.

MUS 410 Twentieth Century and American Music (3)

This course is designed to acquaint the student with important developments in twentieth century and American music. An historical background of music in the United States will be explored with an emphasis on American music of the 20th century. Major musical developments in Europe and South America will also be included. Prerequisite: MUS 101 and MUS 211 or 311.

MUS 485 Independent Study (Semester hours arranged)

Directed research and study is provided on an individual basis in order to deepen a specific interest in the discipline.

MUS 491 Choral Music Symposium (1)

This course will be a comprehensive choral training symposium for church choral directors and directors of school choirs. Clinicians, including composers, will direct sessions in choral rehearsal techniques and performance practices and conduct studies on curriculum materials.

MUS 492 Instrumental Music Master Class (1)

This course is a master class taught by a renowned professional instrumental performer. Topics stressed will include instrumental techniques, phrasing, expressive nuances, and practice/performance strategies. Student performance will be evaluated, and constructive suggestions will be provided. Prerequisite: Permission of instructor.

MUS 493 Nonsecular Music Symposium (1)

This workshop will train choir directors and musicians in repertoire selection, performance practices, and the execution of musical elements of various events. Different rehearsal methods and vocal techniques will be demonstrated and discussed. The latest literature and trends in traditional and contemporary choral music programming will be presented in choral reading sessions. Prerequisite: 90 undergraduate credit hours or permission of instructor.

MUS 496 Fine Arts Seminar (3)

This is a team taught interdisciplinary capstone experience for senior Fine Arts majors. In conjunction with this seminar the student and faculty explore selected topics in the fine arts relative to the preparation of a thesis project in Art, Music or Theatre through which the student will demonstrate a satisfactory level of performance and/or research skills. Prerequisite: Advanced standing of 90 credits and permission of the instructor.

Nursing

College of Health Sciences

The Faculty of Health Sciences
DeNike Center for Human Services
570-422-3474.....www.esu.edu/nurs

About the Program

The Department of Nursing offers a four-year program of study that leads to the bachelor of Science degree with a major in nursing. This program is accredited by the National League for Nursing Accrediting Commission and fully approved by the Pennsylvania State Board of Nursing.

Upon completion of the program, a graduate is eligible to apply to the NCLEX-RN Examination for licensure as a registered nurse, and is prepared to function as a generalist in professional nursing practice.

The graduate is also eligible for graduate study based on individual achievement.

The program involves a foundation of liberal arts education with basic preparation in professional nursing.

An internship at the end of the senior year facilitates a smooth transition from student to graduate role.

Registered nurse baccalaureate graduates are prepared to practice in a variety of settings, which may include hospitals, community agencies, and long-term care facilities.

Mission

The mission of the Department of Nursing is to:

- Prepare citizens qualified to practice as professional nurses in successful competition with graduates of colleges and universities throughout the United States;
- Meet national and local leadership needs in nursing and;
- Find personal life satisfaction in nursing practice through ever widening horizons of understanding and service.

Accreditation

The Nursing degree program is accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, NY 10006; 1-800-669-1656), a specialized accrediting agency recognized by the U.S. Secretary of Education. In addition, the program is approved by the Pennsylvania State Board of Nursing.

Faculty

Professor:
Mary Tod Gray (mgray@po-box.esu.edu)

Associate Professors:
Suzanne Fischer Prestoy (sprestoy@po-box.esu.edu)

Marcia Gasper (mgasper@po-box.esu.edu)

Patty Hannon (phannon@po-box.esu.edu)

Laurel T. Pierangeli (lpierangeli@po-box.esu.edu)

Assistant Professors:
Claranne Mathiesen (cmathiesen@po-box.esu.edu)

Laura Waters, Chair (lwaters@po-box.esu.edu)

Instructor:
Paulette Dorney (pdorney@po-box.esu.edu)

Student Organization and Nursing Honor Society

Students are encouraged to join their professional organization, the Student Nurses Association. This is the local chapter of the National Student Nurses Association.

Senior students who have achieved a 3.0 cumulative grade point average and who rank in the highest 35 percent of their class are eligible to apply for induction into the Xi Beta Chapter of Sigma Theta Tau International, the nursing honor society.

Transfer Students

The Department of Nursing admits the majority of students as freshmen. Therefore, very few seats become available for transfer students. Admission for transfer students is very competitive; successful applicants often have 3.5 or higher GPA. Students who are currently East Stroudsburg University students are given preference for admission into the nursing program.

Other Transfer student criteria:

- Completion of 36 credits
- Over all GPA 3,5.
- Completion of Anatomy and Physiology I and II and related labs, Microbiology with lab, Statistics, and English Composition with grades of 3.0 or better in each course.
- Two letters of recommendation from professors
- Letter of intent as to why candidate wants to be a nurse.
- Interview with nursing faculty to be conducted after the review of submitted materials to the nursing department.
- All materials need to be submitted by Feb 1 for fall placement only.

Core Performance Standards for Admission and Progression

Applicants and students enrolled in the Department of Nursing must possess the necessary behavioral, intellectual, physical, interpersonal, and communication skills to provide nursing care that is safe for the clients, for themselves, and for other healthcare providers. They must be able to provide safe nursing care in a wide variety of settings with diverse clients. Students must meet these core performance standards to qualify for and remain in the nursing program. Where possible, reasonable accommodations will be provided for those individuals with disabilities to enable them to meet these standards and ensure that students are not denied the benefits of, excluded from participation in, or otherwise subjected to discrimination in this program. The core performance standards for this program are identified in the Undergraduate Catalog.

Time Limit for Completing the Program of Study:

All requirements for the degree in the nursing program must be completed within seven years from the date students begin their studies. Exceptions to this requirement may be approved by the department if extenuating circumstances exist.

Are you interested in...

- An intellectual challenge
- Caring for people
- Working in a fast-paced environment
- Responsibility
- Making a difference

Choose Nursing at ESU

- Small class size
- Qualified, experienced faculty
- Practical internship
- Variety of clinical placements
- Quality education

Is nursing a career path for me?

Career Potential

- Intensive care/trauma
- Oncology
- Research
- Emergency Room
- Education
- Maternal/Child
- Psychology/Mental Health

Career Settings

- Hospitals
- Clinics
- Community agencies
- Long-term care facilities
- Research settings

More detailed career information is available from the department.

Bachelor of Science in Nursing

Program Features:

60 Semester Hours

- **Required major courses:** NURS 101, 102, 201, 202, 301, 302, 304, 307, 308, 320, 321, 322, 400, 421, 422, 423, 424, 481.
- **Corequisite courses:** BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; PSY 100, 225; SOC 111.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 111 GE: Human Anatomy and Physiology I	4
PSY 100 GE: General Psychology	3
NURS 101: Nursing Seminar	1
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**15**

Spring

BIOL 112 GE: Human Anatomy and Physiology II	4
PSY 225 GE: Lifespan Developmental Psychology	3
ENGL 103: English Composition	3
General Education Elective	3
Fitness Elective	1
Subtotal	**14**

Sophomore Year

Fall

NURS 102: Concepts of Professional Nursing	3
NURS 201: Health Assessment for Nurses	2
NURS 202 Health Assessment for Nurses Laboratory	1
SOC 111 GE: Introduction to Sociology	3
BIOL 424: Mechanisms of Disease	3
BIOL 461: Mechanisms of Disease Lab*	1
CMST 111 GE: Speech Communication	3
Subtotal	**16**

Spring

NURS 301: Nutrition and Diet Therapy	3
MATH 110 GE: General Statistics	3
CHEM 115 GE: Chemistry, Molecules and Life	3
CHEM 117 GE: Chemistry, Molecules and Life Lab	1
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Junior Year

Fall

NURS 302: Intro Community Health Nursing	2
NURS 304: Gerontological Nursing	2
NURS 320: Intro to Nursing Practice	5
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

NURS 307: Nursing Research	3
NURS 308: Pharmacology	3
NURS 321: Nursing Care Childbearing Family	5
NURS 322: Nursing Care Children, Adolescents and Families	5
Subtotal	**16**

Senior Year

Fall

NURS 421: Adult Health I	6
NURS 423: Psychiatric-Mental Health Nursing	5
General Education Electives	3
Subtotal	**14**

Spring

NURS 400: Senior Seminar	1
NURS 422: Adult Health Nursing II	6
NURS 424: Community Health Nursing	5
NURS 481: Senior Internship	2
Subtotal	**14**
Total Credits	**120**

*Not required for students who transfer a microbiology course.

For more information, e-mail: infonursing@po-box.esu.edu.

RN to Bachelor of Science in Nursing

Program Features:

- **Required major courses:** NURS 201, 202, 301, 302, 304, 307, 308, 400, 424, 481.

- **Corequisite courses:** BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; PSY 100, 225; SOC 111.
- RN's are encouraged to apply to the Bachelor of Science Program. Registered nurse courses are offered during the day and early evening to meet their scheduled needs. No online offerings are currently available.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

BIOL 111 GE: Human Anatomy and Physiology I	4
PSY 100 GE: General Psychology	3
General Education Elective	3
Free Elective	1
Fitness Elective	1
Subtotal	**12**

Spring

BIOL 112 GE: Human Anatomy and Physiology II	4
PSY 225 GE: Lifespan Developmental Psychology	3
ENGL 103: English Composition	3
General Education Elective	3
Fitness Elective	1
Subtotal	**14**

Sophomore Year

Fall

CMST 111 GE: Speech Communication	3
SOC 111 GE: Introduction to Sociology	3
BIOL 424: Mechanisms of Disease**	3
BIOL 461: Mechanisms of Disease Lab**	1
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

MATH 110 GE: General Statistics	3
NURS 301: Nutrition and Diet Therapy	3
CHEM 115 GE: Chemistry, Molecules and Life	3
CHEM 117 GE: Chemistry, Molecules and Life Lab 1	1
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Junior Year

Fall

NURS 201: Health Assessment for Nurses	2
NURS 202: Health Assessment for Nurses Laboratory	1
NURS 302: Introduction to Community Health Nursing	2
NURS 304: Gerontological Nursing	2
NURS 309: Dynamics of Nursing Practice	3
NURS 320: Introduction to Nursing Practice*	5
Subtotal	**15**

Spring

NURS 307: Nursing Research	3
NURS 308: Pharmacology	3
NURS 321: Nursing Care Childbearing Family*	5
NURS 322: Nursing Care Children, Adolescents and Families*	5
Subtotal	**16**

Senior Year

Fall

NURS 421: Adult Health I	6
NURS 423: Psychiatric- Mental Health Nursing	5
General Education Elective course	3
Subtotal	**14**

Spring

NURS 400: Senior Seminar	1
NURS 422: Adult Health Nursing II	6
NURS 424: Community Health Nursing	5
NURS 481: Senior Internship	2
Subtotal	**14**
Total Credits	**120**

Note: a minimum of 32 final credits must be taken at ESU.

* RN's graduating from NLNAC accredited, State Board of Nursing approved schools typically transfer credits equivalent to these courses.

** Course content is fulfilled for RNs who transfer a microbiology course.

For more information, e-mail: infonursing@po-box.esu.edu.

Admission

The admission policies for the nursing program are consistent with the university policies found in the university catalog with the following exceptions:

Freshman Admission Criteria

Consideration for admission is based on the following guidelines:

- High school rank in the top 1/3rd
- Combined SAT of 1000 or better (math/verbal), or a 22 composite score on the ACT
- High School QPA of 3.0 or better
- Completion of work equal to the standard high school college preparation course with a minimum of 16 units, including four units of English, two units of Mathematics (one of which is Algebra), and two units of Science with a related laboratory

For more information, e-mail: infonursing@po-box.esu.edu.

DeNike Center for Human Services 570-422-3474 www.esu.edu/nurs

Core Performance Standards for Admission and Progression

Issue	Standard	Examples of Nursing Activities
Critical Thinking	Critical thinking sufficient for clinical judgment	Competent assessment of clients in a timely manner. Correct interpretation of assessment data, identification of necessary nursing interventions, design of appropriate nursing care plans, evaluating the effectiveness of interventions and revising planned interventions.
Cognitive	Ongoing capacity to learn new information and skills to provide safe nursing care. This includes the ability to comprehend, measure, calculate, analyze and evaluate diverse forms of information.	Learn new skills and rationales for nursing care in a timely manner. Learn and adopt new methods of providing nursing care to reflect the dynamic nature of health care provision.
Interpersonal	Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural and intellectual backgrounds.	Establish rapport and relate effectively with clients, their families, and colleagues. Work effectively with these individuals when they are stressed physically and/or emotionally. Provide care socially and culturally acceptable to clients
Communication	Communication abilities sufficient for interaction with others in verbal and written form.	Follow verbal and written instructions. Clearly communicate with other health care providers by appropriately documenting the nursing interventions provided and the clients' responses. Provide effective client teaching. Consult with a health care provider in a professional manner
Mobility	Physical abilities sufficient to move oneself from room to room, along hallways, and in small or confined spaces. The ability to meet the physical demands of providing nursing care.	Lifting, moving, carrying, pushing, pulling, and supporting clients, equipment and other objects independently. Standing, bending, walking, and sitting while working directly with clients and co-workers, and documenting care
Motor Skills	Gross and fine motor abilities sufficient to provide safe and effective nursing care.	Perform vital signs, CPR, physical assessment, use equipment, hang IVs and tube feedings, draw up and give injections. Document nursing interventions and patient care in legible writing or accurate type.
Tactile	Tactile dexterity sufficient for physical assessment.	Perform palpation, functions of physical examination and/or those related to therapeutic intervention, i.e. insertions of a catheter, giving injections
Visual	Visual ability sufficient for observation and assessment necessary in nursing care.	Reading charts, flow sheets, monitors, thermometers. Assessment of patient skin, color, pupils, wound healing. Drawing up and administering medications.
Hearing	Auditory ability sufficient to monitor and assess health needs.	Auscultation of blood pressure, breath sounds, bowel sounds. Hearing alarms, call bells, cries for help by clients and families and co-workers. Understanding mechanically reproduced voices such as on audiotape
Personal Behaviors	Maintains personal behaviors consistent with the American Nurses' Association Code for Nurses.	Demonstrates personal responsibility, accountability, integrity and honesty. Demonstrates respect for self and others through their verbal and nonverbal behaviors. Avoids behavior inconsistent with professional standards such as chemical dependency and abuse, harm toward self or others, or engaging in or supporting criminal behavior.

Adapted from Core Performance Standards Required for Nursing, Board of Directors of the Southern Council on College Education for Nursing (SCCEN), 1993

Academic Progression Criteria

Minimum academic criteria have been established for all students in this degree program. Students are evaluated at the end of each semester based on the following criteria:

1. Students need to maintain a GPA of 2.75 in the major to progress in the nursing program.
2. Cumulative quality point average below 2.25: dismissal from the program.
3. Cumulative quality point average between 2.25 and 2.74 at the conclusion of the fall or spring semester: probation. Student will be considered on probation for an additional semester on a full-time basis. If a cumulative point average of 2.75 has not been attained, dismissal from the program will occur.
4. Students are required to attain a 2.75 cumulative QPA at the time of graduation and meet the general standards for scholarship standing given in the ESU Student Handbook. Students can repeat a nursing core course only once. A grade of "C" or above is required for courses listed as prerequisites to the major and for all courses required for the major. All courses specifically listed on the curriculum plan fall into these categories. However, a "C" or better in all required courses does not guarantee progression since the required cumulative QPA minimum is 2.75.

Clinical Nursing Course Requirements

Two months prior to beginning a clinical nursing course, students must submit evidence of current Act 34 clearance and Act 151 child abuse clearance, current CPR certification, professional liability insurance ($1,000,000 per occurrence/$3,000,000 aggregate minimum coverage), appropriate immunizations and titers, and verification of good health, including a negative Mantoux test, or chest x-ray. Immunizations and titers include DT, measles, mumps, Hepatitis B, Rubella vaccine or titer showing immunity and a serology test (VDRL, RPR or STS).

University Health Services offers health examinations and the Mantoux test as a service to students who are enrolled in classes at the university and have a health form on file at the Health Center. The Mantoux test is required annually, and a health examination is required every other year.

The basic nursing student will pay for malpractice insurance, which can be processed by the Nursing Department office. RN to BS students must purchase their own insurance and present evidence prior to enrolling in a clinical nursing course.

RN to BS students are also required to present evidence of current licensure in Pennsylvania. Act 34 and Act 151 clearance forms can be obtained in the Nursing Department office.

Additional Expenses

Additional expenses required of students as they progress through the Nursing Program are uniform costs, travel expenses to clinical sites, NCLEX review courses, and application fees for licensure.

Credit By Examination

Credit for some of the nursing courses may be earned through credit by examination. Other methods of earning credit are explained in the Advanced Placement section of this catalog.

Eligibility for Licensure Examination

Graduates of the Bachelor of Science program are eligible to apply to the National Council of State Boards of Nursing Examination for licensure to practice as Registered Nurses. Prospective students should note that there are restrictions on licensure due to felony convictions related to controlled substances. For additional information, contact the Nursing Department at 570-422-3474.

Student Organizations

Students are encouraged to join their professional organization, the Student Nurses Association. This is the local chapter of the National Student Nurses Association.

Grievance Procedure

The university's grievance procedure can be found in the university's Student Handbook.

Nursing Honor Society

Senior students who have achieved a 3.0 cumulative grade point average and who rank in the highest 35 percent of their class are eligible to apply for induction into the Xi Beta Chapter of Sigma Theta Tau International, the nursing honor society.

Course Descriptions

NURS 101 Nursing Seminar (1)

This seminar is designed to enable the beginning student in nursing to identify knowledge from support courses relevant to the practice of professional nursing. The functions of caring, communication, critical thinking, therapeutic intervention, and leadership/management are explored from a professional nursing practice perspective. Systems theory is introduced as the integrating mechanism of the ESU Nursing curriculum. Corequisites: BIOL 111, PSY 100, and an enrolled nursing major.

NURS 102 Concepts of Professional Nursing (3)

This course is an introduction to selected concepts that contribute to the foundation of the nursing profession and nursing practice. The individual, environment, health and nursing are the four primary phenomena of concern to the nursing profession. The historical and theoretical basis of nursing professional values and knowledge base are introduced in relationship to the changing health needs of society. The unique contribution of Nursing to health care delivery is explored with emphasis on personal, interpersonal and critical decision making skills inherent in the profession. Corequisites: BIOL 111, PSY 100, NURS 101. This course is only open to students accepted into the Nursing program.

NURS 201 Health Assessment for Nurses (2)

This course is designed to provide an overview of the skills necessary to perform comprehensive health assessments. The course focuses on the health history and physical assessment of the well adult client, although problems such as impairment of skin integrity and ineffective airway clearance are also discusses. Prerequisite: BIOL 111, 112, ENGL 103. Corequisite: NURS 202.

NURS 202 Health Assessment for Nurses Laboratory (1)

This course is taken with NURS 201 and consists of laboratory experiences designed to enhance the student's ability to apply cognitive and psychomotor skills related to health assessment. Prerequisite: This course is only open to students accepted into the Nursing program. Concurrent NURS 201.

NURS 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum. Prerequisite: Permission of the chair and the faculty of the Department of Nursing.

NURS 301 Nutrition and Diet Therapy (3)

This course is designed to provide a comprehensive overview of nutrition and its crucial role in maintaining health and promoting rehabilitation. The course focuses on nutritional and public health; nutrients; metabolism; food sources; food selection for nutritional, psychological and cultural values; and on various therapies for disease conditions. Enrollment is not limited to nursing majors. Prerequisite: BIOL 111, BIOL 112. Corequisites: CHEM 115, 117.

NURS 302 Introduction to Community Health Nursing (2)

The Introduction to Community Health Nursing course is designed to provide students with a foundation for community health nursing practice. The evolution of public health and community health practice will be addressed throughout the course along with the following: health, health care economics, the health care system, levels of prevention, family dynamics, cultural concepts, and the community assessment process. Prerequisites: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, 301; PSY 100, 225; SOC 111.

NURS 304 Gerontological Nursing (2)

Unique health and nursing needs of older adult clients and their significant others will be explored as well as the political, social, economic, ethical and moral issues that have implications for an aging society. This course is designed to provide basic knowledge in gerontological nursing so that the student is better prepared to assist

older adults in realizing their potential for continued growth and better health, regardless of setting or health status. The emphasis is on healthy aging and wellness and for the student to develop a positive perspective on aging. Prerequisite: This course is open only to students accepted into the Nursing program.

NURS 307 Introduction to Research in Nursing (3)

This course is designed to develop an understanding of the fundamental principles of scientific investigation. The basis of study design, methods of data collection and analysis, interpretation of data, and the significance of conclusions to nursing theory and nursing practice are considered. Students will have guided experience in the evaluation and utilization of nursing research. Prerequisites: ENGL 103; MATH 110; NURS 320. This course is open only to students accepted into the Nursing program.

NURS 308 Pharmacology: Implications for Nursing Practice (3)

This course is a study of the use of drugs/medications with respect to mechanism of action, therapeutic uses, side effects, contraindications, interactions, expected outcomes, toxicity/ management of overdose, and safe, effective dosages. Emphasis is placed on lifespan considerations, community-based care, drug prototypes, client teaching, health promotion, economics, and ethical and legal aspects of drug administration. This course may be taken by non-nursing majors. Prerequisite: BIOL 111, 112, 424, 461; CHEM 115, 117; ENGL 103.

NURS 309 Dynamics of Nursing Practice (3)

In this course the Registered Nurse student will examine various nursing themes and concepts; nursing education; adult education; nursing process; leadership, management, systems theory; and components of the U.S. health care system. Emphasis is placed on effective oral and written communication. Students are expected to refine critical thinking skills and express views in class discussion from readings and material presented. Prerequisite: RN status.This course replaces NURS 101 Nursing Seminar and NURS 102 Concepts of Professional Nursing. This course is open only to students accepted into the Nursing program.

NURS 320 Introduction to Nursing Practice (5)

This course introduces the student to therapeutic interventions utilized in the helping relationship. Acquisition and application of therapeutic communication and psychomotor skills to the nursing care of individuals is the focus of this course. Prerequisites: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, NURS 102, NURS 201, NURS 202, NURS 301; PSY 100, 225; SOC 111. Concurrent: NURS 302, NURS 304. This course is open only to students accepted into the Nursing program.

NURS 321 Nursing Care of the Childbearing Family (5)

This course focuses on the role of the nurse in promoting the optimal health of the childbearing family. The course is designed to develop and sharpen the student's assessment skills of expectant and new families and of neonates; to further develop the student's formulation of nursing diagnoses; and to give him/her practice in planning, implementing, and evaluating holistic care for the childbearing family. Principles of care, which are fundamental to Maternal-Child Nursing, are developed throughout the course, along with associated clinical skills. Clinical experiences and opportunities will be provided in a variety of acute care and community settings to enable students to apply nursing care principles. Prerequisites: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, NURS 102, NURS 201, NURS 202, NURS 301,

NURS 302, NURS 304, NURS 320; PSY 100, 225; SOC 111. Concurrent: NURS 307, 308.

NURS 322 Nursing Care of Children, Adolescents, and Families (5)

The focus of this course is to provide an opportunity for the student to learn about the developmental health needs of children and their families. Current trends and nursing skills are stressed regarding the physical and emotional needs of infants, toddlers, and preschoolers, school-age children, adolescents, and the families. Growth and development of the child and the family are discussed. Nursing care of relevant pathological conditions is derived through the application of critical thinking and the nursing process. Prerequisites: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, NURS 102, NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 320; PSY 100, 225; SOC 111. Concurrent: NURS 307, 308.

NURS 323 Nursing Theory and Practical (3)

This is a transition course for licensed practical nurses which includes the study of selected health needs related to infants and childbearing families and to children, adolescents and families. This theory is applied in a clinical component. The following concepts are also applied in the clinical component: critical thinking communication skills, group interaction, beginning leadership and management skills, and theoretical rationale for nursing interventions.

NURS 324 Nursing Theory and Practical II (3)

This is a transition course for licensed practical nurses which includes the study of selected health needs related to adult health care. This theory is applied in a clinical component. The following concepts are also applied in the clinical component: critical thinking, communication skills, group interaction, beginning leadership and management skills, and theoretical rationale for nursing interventions are explored. A clinical component is included.

NURS 400 Senior Seminar (1)

This is a seminar course which focuses on developing personal roles as professional practitioners through an examination of contemporary issues and career opportunities. Prerequisite: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 307, NURS 308, NURS 320, NURS 321, NURS 322, NURS 421, NURS 422; PSY 100, PSY 225; SOC 111, (Basic students only). In addition NURS 323, NURS 324, (LPN students only). In addition NURS 309, (RN students only). Concurrent: NURS 481.

NURS 420 Analysis of Aging (3)

This course is designed to analyze the aging process with a multidisciplinary approach. Physiological, psychological, and sociological factors which influence the individual's response to aging are studied. This course is geared for students preparing for health disciplines. Enrollment is not limited to nursing majors. Prerequisites: BIOL 111, 112; PSY 100, or permission of the instructor.

NURS 421 Adult Health Nursing I (6)

This course focuses on maximizing the health of adults and older adults and their families experiencing responses to altered nutrition, skin integrity, immune function, endocrine function, gastrointestinal function, urinary elimination, and sexual and reproductive function. Emphasis is placed on the development of clinical decision making skills, utilization of nursing research, leadership skills, health promotion, treatment of illness, and rehabilitation. This course builds upon knowledge gained from nursing and other disciplines pertaining to the holistic care of adults and older adults. The clinical component of this course allows the direct application of theory to practice. Clinical laboratory experiences will be provided in acute and community based settings. Prerequisite: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, NURS 102,

NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 307, NURS 308, NURS 320, NURS 321, NURS 322; PSY 100, 225; SOC 111. Corequisite: NURS 423.

NURS 422 Adult Health Nursing II (6)

This course focuses on maximizing the health of adults and older adults experiencing responses to altered cardiac function, peripheral tissue perfusion, respiratory function, neurologic function, and visual and auditory function. Emphasis is placed on the development of clinical decision making skills, health promotion, leadership skills, utilization of nursing research, treatment of illness, and rehabilitation. This course builds upon knowledge gained from nursing and other disciplines pertaining to the holistic care of adults and older adults. The clinical component of this course allows the direct application of theory to practice. Clinical laboratory experiences will be provided in both acute care and community based settings. Prerequisite: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101, NURS 102, NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 307, NURS 308, NURS 320, NURS 321, NURS 322,; NURS 421, NURS 423; PSY 100, 225; SOC 111. Corequisite: NURS 424.

NURS 423 Psychiatric/Mental Health Nursing (5)

The course is based on selected theories of normal and abnormal behavior, psychiatric disorders, treatment modalities and the therapeutic use of self with growing knowledge of self-awareness and self-acceptance. Critical thinking, as well as the nursing process are applied in caring for clients (individuals, families, groups) both in the acute care and community settings. Prerequisite: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENG 103; MATH 110; NURS 101 , NURS 102, NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 307, NURS 308, NURS 320, NURS 321, NURS 322; NURS 421, NURS 422; PSY 100, 225; SOC 111 Corequisite: NURS 421

NURS 424 Community Health Nursing in Practice (5)

The Community Health Nursing in Practice course provides opportunities for senior nursing students to holistically care for families, aggregates, and communities as clients. Concepts inherent to community health nursing practice build on prior and concomitant theory and clinical course content. Prerequisites: BIOL 111, 112, 424, 461; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; NURS 101 NURS 102, NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 307, NURS 308, NURS 320, NURS 321, NURS 322, NURS 421, NURS 422; PSY 100, 225; SOC 111. NURS 423. (LPN students only: NURS 323, NURS 324); (RN students only: NURS 309). Corequisite: NURS 422.

NURS 481 Senior Internship (Semester hours arranged; minimum 2 credit, 112.5 hours)

This course is designed to facilitate professional development and/or transition into practice. Experiences provide for continuous clinical exposure that will assist the student in further development of the nursing generalist role and/or build upon previously attained nursing knowledge and skills. Opportunities for leadership and management development, as well as decision-making are encouraged through participation in the delivery of health services and nursing care. Prerequisite: BIOL 111, 112, 424; CHEM 115, 117; CMST 111; ENGL 103; MATH 110; PSY 100, 225; SOC 111; NURS 101 (Basic students only),NURS 102, NURS 201, NURS 202, NURS 301, NURS 302, NURS 304, NURS 307, NURS 308, (LPN students only: NURS 323, NURS 324; RN students only NURS 309), NURS 320, NURS 321, NURS 322, NURS 421, NURS 422, NURS 423, NURS 424. Concurrent NURS 400.

NURS 485 Independent Study (Semester hours arranged)

This course will provide the opportunity to identify and explore in depth a nursing area of special interest to the student. This study will be under the guidance of a faculty member. Prerequisites: approval by the chair and faculty of the Department of Nursing.

NURS 486 Field Experience and Internship - School Nursing (3)

This course is designed to serve as a field experience for students pursuing certification in school nursing. In addition to validating competencies learned in prerequisite courses, students will have an opportunity to become familiar with the role of the school nurse in various settings and to apply cognitive, affective, and psychomotor skills in an actual practice environment. Experience will be provided in preschool, K-8, and senior high school levels. Prerequisites: HLTH 360 or 539; MCOM 262 or 520; PSED 161 or 510, 242 or 516.

NURS 490 School Nursing (3)

This course is designed to provide an overview of the skills needed to function as a school nurse. Topics addressed include the well child and the child with special needs. Introduction to screening programs will be addressed.

Philosophy

College of Arts and Sciences

The Faculty of Arts and Letters
428 Normal Street
570-422-3601.....www.esu.edu/phil

About the Program
The ESU Philosophy major is designed to give the best possible undergraduate grounding in philosophy. The ESU Philosophy major is structured around the study of the major texts in the history of philosophy. Unlike some other programs, which address issues in philosophy mostly in terms of contemporary readings and secondary sources, at ESU you will address these issues in the context of the classics in philosophy. You will not merely read about the great philosophers – you will read the great philosophers themselves.

Why Study Philosophy at ESU
Whether you are interested in thinking for yourself on the great issues of human life, or you want to go on to graduate school in philosophy, or use your degree as a preparation for further study in other disciplines such as law or business, the ESU Philosophy program gives you a solid foundation.

Philosophy majors are prized even outside the discipline for their clear thinking and their articulateness. Our program will help you to attain these abilities.

Are you interested in...
- Analytical thinking and logic
- Ethical issues
- Life, the universe and everything

Choose Philosophy at ESU
- Historically-based courses
- Issue-based courses
- Solid grounding in principles of sound thinking

Is Philosophy a career path for me?

Career Potential
- Philosophical research
- University teaching
- Law
- Business
- Politics

Career Settings
- Non-profit groups
- Government
- Education
- Corporations

More detailed career information is available from the department.

Bachelor of Arts in Philosophy

30 Semester Hours
Required courses: PHIL 251 GE: Ancient Philosophy, PHIL 356: Rationalists of the 17th and 18th Centuries, PHIL 357: Empiricists of the 17th and 18th Centuries, PHIL 457: Kant and German Idealism, and one of PHIL 315: American Philosophy, PHIL 417: 20th Century Analytic Philosophy and PHIL 418: Phenomenology and Existentialism.

PHIL 110, 221, 231, 251 and 353 are taught every year.

All other courses are offered on a two-year rotation. Therefore, the order of years 3 and 4 below may be switched, depending on the year of entry. The students may start taking 200-level elective courses with prerequisites once PHIL 110 has been completed. 300- and 400-level courses should not be taken at least until the second year.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PHIL 110 GE: Introduction to Philosophy	3
Foreign Language I	3
ENGL 103: English Composition	3
General Education Elective – Natural Sciences	3
General Education Elective – Social Sciences	3
Subtotal	**15**

Spring

PHIL 200-level course	3
Foreign Language II	3
General Education Elective – Arts & Letters	3
General Education Elective – Natural Sciences	3
General Education Elective – Social Sciences	3
Subtotal	**15**

Sophomore Year

Fall

PHIL 251: Ancient Philosophy	3
Elective	3
General Education Elective – Arts & Letters	3
General Education Elective – Natural Sciences	3
General Education Elective – Social Sciences	3
Subtotal	**15**

Spring

PHIL 200-level or 300-level course	3
Elective	3
Elective	3
General Education Elective – Natural Sciences	3
General Education Elective – Social Sciences	3
Subtotal	**15**

Junior Year

Fall

PHIL 315: American Philosophy	3
PHIL 417: 20th Century Analytic Philosophy	3

Fitness Electives	2
General Education Elective – Natural Sciences	3
General Education Elective – Social Sciences	3
Elective	1
Subtotal	**15**

Spring

PHIL 418: Phenomenology and Existentialism	3
Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Senior Year

Fall

PHIL 356: Rationalists of the 17th and 18th Centuries	3
PHIL 357: Empiricists of the 17th and 18th Centuries	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**

Spring

PHIL 457: Kant and German Idealism	3
Elective	3
Elective	3
Elective	3
Elective	3
Subtotal	**15**
Total Credits	**120**

For more information, contact the department by calling 570-422-3601.

Department of Philosophy 570-422-3601 www.esu.edu/phil

Philosophy Minor

18 semester hours

- **Required courses:** PHIL 110, two of PHIL 221, 231 and 251, and three courses at the 300-level or above.
- A minimum of nine of the credit hours used to complete the Minor in Philosophy must be completed at East Stroudsburg University.

Student Organization

Philosophy Club

The ESU Philosophy Club meets regularly to discuss issues of philosophical interest. Meetings sometimes feature a speaker, and sometimes are just an opportunity to discuss philosophy outside the classroom environment.

Faculty

Professors:

Peter Pruim (ppruim@po-box.esu.edu)

Martin Weatherston, chair (mweather@po-box.esu.edu)

Associate Professor:

Timothy Connolly (tconnolly@po-box.esu.edu)

Storm Heter (sheter@po-box.esu.edu)

Assistant Professors:

Heon Kim (hkim@po-box.esu.edu)

Course Descriptions

PHIL 110 GE: Introduction to Philosophy (3)

This course is an introduction to the basic issues and critical techniques of philosophy. Philosophical issues such as ethics, the theory of knowledge, metaphysics and logic will be explored, as well as the social, political and religious aspects of human existence.

PHIL 171 GE: RELS: Introduction to Religious Studies (3)

This course provides an introduction to topics of general interest in religion, including the nature of man in the religious perspective, the many varieties of religious experience, the religious perspective on death, and the religious dimension of current social and moral issues; current trends in American religion will also be considered.

PHIL 172 GE: RELS: Introduction to World Religions (3)

In this course the basic components - beliefs and rituals - of Amerind, African tribal, Middle Eastern, and Asian religions are presented and their distinctive characters are examined in the light of dominant features such as animism, magic, shamanism, priesthood, credal affirmation, liturgy, and sacraments.

PHIL 212 GE: Introduction to Eastern Philosophy (3)

This course will present the ideas of thinkers from cultures as diverse as those of India, China, Japan and the Middle East. The main areas of concern will be metaphysics, logic and epistemology. Excerpts from texts by numerous authors will be read and discussed. Prerequisite: PHIL 110.

PHIL 213 GE: Black Humanism (3)

This course is a study of philosophical, literary, and artistic contributions of African-American and African writers. Though major emphasis will be given to contemporary black authors, some emphasis will be put on the historic DuBois controversy and Marcus Garvey and his "Back to Africa" movement.

PHIL 221 GE: Logic I (3)

Logic is the study of proper reasoning. This course explores the concepts of soundness, validity, implication, equivalence and consistency. Techniques are developed for evaluating arguments as they are encountered in ordinary language. Included are examinations of deductive inference, inductive inference, the use of observation to support theory, and a survey of commonly committed fallacies. Prerequisite: PHIL 110.

PHIL 231 GE: Ethics (3)

This course is a survey of major ethical theories in Western philosophy. The moral theories of Plato, Aristotle, Aquinas, Kant, J.S. Mill, and Nietzsche will be examined. Prerequisite: PHIL 110.

PHIL 235 GE: Human Rights and Freedom (3)

This course examines the theory and application of human rights in political society. We study both liberty (a central ethical and political

value) and rights (those instruments used to codify and enforce our liberties). Readings are drawn from classical and contemporary sources. The course may include topics such as torture, genocide, economic justice and women's rights. Prerequisite: PHIL 110.

PHIL 238 GE: Philosophy of Law (3)

This course surveys the major theoretical and conceptual questions underlying law. The course is designed for both students hoping to pursue law as a career, and students interested broadly in the conceptual issues behind law. Prerequisite: PHIL 110.

PHIL 241 GE: Philosophy of Art and Beauty (3)

This course will examine major philosophical attempts to treat issues such as the nature of art and the standards of beauty. Texts by Plato, Aristotle, Plotinus, Kant, Hegel, Nietzsche and Heidegger will be examined. Prerequisite: PHIL 110.

PHIL 251 GE: Ancient Philosophy (3)

This course investigates the foundation of Western philosophy from the pre-Socratics to Neo-Platonism; particular attention is given to Socrates, Plato, Aristotle, the Stoics, and Plotinus. Prerequisite: PHIL 110.

PHIL 260 WS: Women and Religion (3)

This class will explore women's religious experience in a variety of religious traditions, including ancient and modern, eastern and western, with a view to illuminating the application of feminist methodologies to the examination of those experiences.

PHIL 265 GE: Philosophy of Religion (3)

This course comprises an examination of views on various aspects of religion postulated by thinkers both within and without the confines of orthodoxy. Among the topics to be discussed are: God's nature and existence; the problem of evil; faith and unbelief; mysticism; faith and miracles; eschatology. Prerequisite: PHIL 110.

PHIL 273 GE: Religion and Black Consciousness (3)

This course is a study of the interrelationship of the substance of Black Religion and the thought forms of white folk religion on institutionalized and non-institutionalized forms of religion among blacks and the role of both in contributing to and dealing with heightening contemporary black consciousness.

PHIL 274 Religion and Technology (3)

The course begins with a survey of the various types of orientation to technological society (the "manipulative," the "alienative," and the "consensual"). These orientations are then assessed from the perspective of the religious philosophy of creativity, with a view to develop a basis of realizing the constructive potentialities of contemporary technological developments.

PHIL 281 GE: Philosophy of Mind (3)

Am I a material brain, an immaterial consciousness, or both? This course begins with modern criticisms of Descartes' classic dualism and examines contemporary efforts to understand how purely physical objects such as human brains (and perhaps computers) may nevertheless be said to have mental traits, e.g., thoughts and beliefs. Explored are behaviorist, functionalist, and information-representation approaches. Despite the progress made by these, we will articulate what aspects of consciousness still elude our efforts to understand the mind in naturalistic, scientific terms. Prerequisite: PHIL 110.

PHIL 285 GE: War and Justice (3)

This course begins with a discussion of the three main theories of justice in time of war-realism, pacifism, and just war theory-and then examines historical and contemporary views concerning justice in entering a war, waging a war, and dealing with a war's aftermath. Pre-requisite(s): PHIL 110

PHIL 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

PHIL 312 Comparative Philosophy (3)

Comparative philosophers approach an issue by looking at how it is treated in diverse philosophical traditions such as those found in Africa, China, India, or the Middle East. This course will begin with discussion of the methodological problems involved in doing comparative philosophy, and then proceed to the examination of a general issue treated in Western and non-Western philosophies. Prerequisite: PHIL 110 and 212.

PHIL 315 American Philosophy (3)

This course explores the American experience as expressed and developed in the words of the classic American philosophers; analysis of selections from Pierce, James, Dewey, Royce, Santayana, and Whitehead; the impact of American philosophy on education, religion, ethics, and social and legal theory. Prerequisite: PHIL 110.

PHIL 318 Schopenhauer, Kierkegaard, and Nietzsche (3)

This course will study the three major 19th century continental philosophers who rebelled against the exaltation of reason. Their thinking led to existentialism and to radical reappraisals of ethics, religion, aesthetics, epistemology, and metaphysics. Prerequisite: PHIL 110, or 231, or 251.

PHIL 321: Logic II (3)

This is a course on quantificational predicate logic. This twentieth century advancement unifies the methods presented in Logic I into a single system of greater power. The course focuses on techniques of symbolization and derivation and includes proving some meta-theoretical facts about logical systems in general. Prerequisite: PHIL 221.

PHIL 337 Contemporary Ethics (3)

This course is an in-depth study of contemporary theories of ethics - emotivism, prescriptivism, existentialism, pragmatism, etc. - as expressed by philosophers such as Ayer, Stevenson, Hare, DeBeauvoir, and Dewey. Prerequisites: PHIL 110, 231.

PHIL 340 GE: Social Philosophy (3)

This course will concentrate, from various philosophical perspectives, on current social issues such as society and the relation of the individual to it, social justice, social equality and affirmative action, health care, moral standards and the law, children and society, drugs, and problems in engineering a good society. Prerequisite: PHIL 110.

PHIL 341 GE: Political Philosophy (3)

This course offers a discussion, from various philosophical points of view, of such historical concepts as city-state, universal community, and of contemporary issues pertaining to national, state, and Third World political developments. Perspectives will be presented on these issues from the writings of both classical and contemporary philosophers. Prerequisite: PHIL 110.

PHIL 353 Medieval Philosophy (3)

This course presents the ideas of philosophers who lived between the third and the fifteenth centuries, e.g., Augustine, Abelard, Anselm, Aquinas, and William of Ockham. Prerequisites: PHIL 110, 251.

PHIL 356 Rationalists of the 17th and 18th Centuries (3)

This course undertakes a close examination of four major Rationalist philosophers, Descartes, Malebranche, Spinoza, and Leibniz. Each of these thinkers made extravagant claims for reason and produced systems of metaphysics that claimed certainty on issues such as the existence of God, the concept of substance, the immortality of the soul, and the nature of the world. Prerequisite: PHIL 110.

PHIL 357 Empiricists of the 17th and 18th Centuries (3)

This course studies the epistemological and metaphysical theories of the major British Empiricists and other related thinkers. Included will be Hobbes, Locke, Berkeley, and Hume. Prerequisite: PHIL 110.

PHIL 417 20th Century Analytic Philosophy (3)

This course is a study of Anglo-American philosophy in the 20th Century, a tradition that has come to be known as Analytic Philosophy. The course begins with an examination of three central figures, Frege, Russell, and Wittgenstein. Together they promoted the study of logical forms, language and linguistic meaning as primary tools to effectively re-examine traditional philosophical problems. The course examines how these founding figures contributed to the development of Logical Positivism. Prerequisites: PHIL 110, and 221 or 357.

PHIL 418 Phenomenology and Existentialism (3)

This course is a study of German phenomenology and existentialism and will include philosophers such as Husserl, Heidegger, and Buber. Prerequisites: PHIL 110 and one other philosophy course.

PHIL 419 20th Century French Philosophy (3)

This course studies major developments in twentieth century French philosophy. The course has two main units: Existentialism and Structuralism, and Postmodernism. Sartre, Foucault and Derrida will be covered. Prerequisites: PHIL 110 and one other philosophy course.

PHIL 457 Kant and German Idealism (3)

This course is a study of Kant's major work on metaphysics and epistemology: the Critique of Pure Reason. The basis for Kant's justification of science and his rejection of speculative metaphysics will be examined. The course will also examine how the German Idealists attempted to surmount the limitations that Kant put on knowledge through their attempts to achieve absolute knowledge. This attempt to re-establish speculative metaphysics will be studied through a close reading of one of Hegel's works. Prerequisites: PHIL 110 and 356 or 357.

PHIL 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis.

Physical Education Teacher Education

College of Health Sciences

The Faculty of Human Performance
Zimbar-Liljenstein Hall
570-422-3293.....www.esu.edu/pete

About the Program
ESU has been recognized as a leader in teacher preparation since it began as a Normal School in 1893.

The Department of Physical Education at ESU offers a bachelor of science degree with majors in Physical Education and Health Education. In addition, students may choose to become certified as a Physical Education and Health Teacher in Pennsylvania.

The Physical Education and Health Teacher certification program is a unique and dynamic curriculum for prospective teachers. A student in this area will be prepared to become a teacher of physical education and health in the public schools.

This 136-credit degree program leads to Commonwealth teaching certificates in Health Education (P-12), and Health and Physical Education (P-12). Students interested in this program must complete the degree requirements for both a Bachelor of Science in Health Education, and a Bachelor of Science in Physical Education. Only those students who satisfactorily complete all requirements in both the physical education and health education degree programs will be endorsed for certification to teach Health and Physical Education in Pennsylvania. Successful completion of the physical education teacher preparation program satisfies the academic requirements for a K-12 Health and Physical Education Teaching Certificate and K-12 Health Education Teaching Certificate in Pennsylvania, as well as eligibility for teacher certification in most other states.

The ESU physical education teacher preparation program is endorsed by NASPE/AAHPERD.

Employment / Career Opportunities
ESU physical education teacher education graduates are recognized as quality physical educators.

They are highly competitive in the employment market. ESU graduates can be found teaching health and physical education in school districts across Pennsylvania and throughout the country.

Graduates are also successful pursuing advanced degrees for positions in educational administration, research or college teaching.

This is a limited access program designed to provide the student with academic and professional experiences in preparation to teach Physical Education and Health in schools.

Are you interested in...
- Being a positive influence on youth
- Making a difference in people's lives
- Helping others

Choose Physical Education Teacher Education at ESU
- Small class size
- Qualified, experienced faculty
- Practical hands-on experience

Is a physical education teacher education a career path for me?

Career Potential
- Physical Education Teacher
- Health Teacher
- Physical Education and Health Teacher

Career Settings
- Public schools
- Private schools
- Colleges and universities — education administration, research

More detailed career information is available from the department.

Bachelor of Science in Physical Education and Health Education

Program Features:
The course requirements for the 136-credit program are listed below, as is a plan for completing the two degrees in eight semesters.
- **Required major courses:** PETE 100, 111, 120, 143, 153 or 453, 300, 302, 305, 306, 307, 341, 343, 344, 345, 400, 440, 442, 445, EXSC 203, 310
- **Required courses:** HLTH 210, 220, 230, 240, 310, 341, 350, 356, 365, 370, 431 and 461.
- **Required courses:** PSED 150, 250 and REED 350
- **Required general education courses:** ENGL 103, English Literature, CMST 111, BIOL 111, 6 credits of MATH, PSY 100 and SOC 111.
- **Activity requirements:** PETE 111, 120, 143, 153 or 453, 300, 305, 306.

Notes:
- A minimum cumulative quality point average (QPA) as identified by Pennsylvania law, chapter 354 is required for all teacher education students. These minimum standards are required for admission, continuation, student teaching, and graduation from this program. Students should see the department chair for the overall and major QPA standards.
- Eligibility for Pennsylvania Teacher Certification in Physical Education and Health requires the student to pass the Praxis I and II Exams.
- The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section *Teacher Certification Requirements* in this catalog for specific requirements for admission into teacher education programs**.**

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
PSED 150: Introduction to Teaching all Students	6
PETE 100: Fundamental Content Knowledge in PE	2
2 PETE Activity Courses (choice)	2
HLTH 210: Foundations of Health Science	3
Subtotal	**16**

Spring

ENGL 1 English Literature	3
MATH 1	3
PSY 100: General Psychology	3
2 PETE Activity Courses (choice)	2
HLTH 220: Personal & Consumer Health	3
PSED 250: Psychology of Learners in Diverse Communities	3
Subtotal	**17**

***Summer Class*

General Education Elective	3
General Education Elective	3
Subtotal	**6**

Sophomore Year

Fall

MATH 1…	3
BIOL 111: Human Anatomy & Physiology I	4
General Education Elective	3
HLTH 230: Community Health	3
General Education Elective	3
Subtotal	**16**

Spring

General Education Elective	3
General Education Elective	3
General Education Elective	3
HLTH 240: Health Emergencies	3
EXSC 203: Mechanical Kinesiology	3
PETE 300: New Games & Adventures	1
PETE 305: Tactical Approach to Teaching Games I	1
PETE 306: Tactical Approach to Teaching Games II	1
Subtotal	**18**

***Summer Class*

General Education Elective	3
Subtotal	**3**

Junior Year

Fall

REED 350: Teaching Reading to Communities of Diverse Learners	3
EXSC 310: Exercise Physiology	3
PETE 302: Psychosocial Aspects of Children's Activity	2
General Education Elective	3
HLTH 310: Family Health (Fall Only)	3
HLTH 341: Nutrition Education (Fall Only)	1.5
HLTH 356: Drug & Alcohol Teacher Prep (Fall Only)	1.5
Subtotal	**17**

Retention Standards

*Praxis II: Fundamental Subjects: Content Knowledge

pre-requisite to PETE 400/HLTH 461

Spring

General Education Elective	3
PETE 345: Adapted Physical Education**	3
PETE 343: Analysis of Teaching PE**	2
PETE 307: Movement Experiences for Pre School/Primary Grade**	1
PETE 341: Movement Experiences for the Intermediate Grade Child**	1
PETE 344: Motor Learning Development**	3
HLTH 350: Promoting Emotional Well Being	3
Subtotal	**16**

Senior Year

Fall

PETE 400: PE Teaching & Assessing Strategies*	3
PETE 442: Movement Experiences for Secondary Education	1
PETE 445: O & A of Physical Education	2
HLTH 365: School Health Program	3
HLTH 461: Methodology in Health Ed	3
HLTH 462: Assessments in School Health	3
Subtotal	**15**

Spring

PETE 440: PE Student Teaching	5/6
HLTH 431: Health Student Teaching	5/6
HLTH/PETE 499: Content Specialist	1
Subtotal	**11-13**
Must achieve a 3.0 QPA for PA Teacher Certification	
Satisfactory HPE Professional Portfolio	
Praxis II: Health Education and HPE Content Knowledge	
Total Credits	**136**

*Renew Act 34, Act 114-FBI fingerprinting, Act 151 Apply to student teach

** Indicates that you must be screened into the HPE major prior to registering for these PETE courses.

Teacher education program requirements have been changes to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact the department by calling 570-422-3293 or visit Zimbar-Liljenstein Hall 570-422-3293 www.esu.edu/pete

Faculty

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Course Descriptions

PETE 100 Fundamental Content Knowledge in Physical Education (2)

This course is designed to introduce students to fundamental content knowledge related to teaching of physical education, physical activity, and sport. The laboratory experiences are designed to enable students to know and apply positive dispositions of a quality physical educator.

PETE 110 Concepts of Motion (1)

This course is designed to introduce the student to the study of motion in dance as the basis for all forms of activity. Through the course the student will explore fundamental motion concepts including energy flow, spatial organization, and rhythm and will explore application of process skills to creative activity (improvisation, composition). Three aspects of dance (kinesiological and anatomical, historical and theoretical, and aesthetic) will be emphasized.

PETE 111 Social Forms of Dance (1)

This course is a study of the social forms of dance and their ethnic sources. Social mixers, couple, groups, contra, and quadrille dancers, widely different in types and geographic origin, are included as well as standard ballroom dance rhythms, step patterns, and variations.

PETE 120 Physical Conditioning (1)

This course provides for development of programs of exercise and activity and individual assessment of status, needs, and goals and is designed to enable each individual to determine realistic goals for his/her development and the use of activity throughout his/her life.

PETE 121 Aerobic Fitness Activities (1)

This course is designed to introduce the student to the various aerobic fitness activities for adult populations. Techniques of fitness assessment, aerobic dance, jogging and aquacizing will be emphasized.

PETE 122 Strength Training (1)

This course is designed to give the student a broad background in the area of strength training. Various strength training programs, techniques, and trends will be examined. Students will have the opportunity to set up and become involved in various strength-training methods. Recommended prerequisite: PETE 120.

PETE 123 Yoga (1)

Yoga is a system of exercise and mindful movement which improves the health and physiological function of the entire body. The major emphasis in this course is on the asanas (postures) of yoga. Minor emphasis is on techniques to quiet and focus the mind, breath control and relaxation.

PETE 140 PED I: Personal Awareness Concepts and the Teaching of Physical Education (2)

This is the first course in a sequence of four courses focusing on teaching physical education. This course emphasizes the positive intrapersonal and interpersonal skills necessary to become a professional in physical education. Prerequisite or concurrent: PETE 100.

PETE 141 Movement Experiences for the Pre-School Child (1)

This course is an introduction to movement experiences appropriate for the pre-school child and his/her total integrated development; attention is focused upon the elements of movement, non-locomotor, and manipulative activities that promote development of perceptual-motor abilities, physical and motor fitness, and motor abilities. The proper selection and organization of activities that promote instructional objectives based upon student needs is stressed.

PETE 143 Educational Gymnastics (1)

This course provides for the integrated study of the bodily, dynamic, spatial, and action aspects of gymnastics. Students will be expected to increase and expand their skills and spotting abilities in the gymnastic environment by solving movement problems and performing tasks on the mats and single pieces, and combinations of equipment.

PETE 150 Backpacking, Orienteering, and Mountaineering (1)

This course includes basic skills of backpacking, land navigation, sport orienteering, and introductory experiences in rope handling, climbing, and rappelling. After successful completion of the course, the student will be able to plan and carry out a short backpacking trip, read a map and compass, follow a simple orienteering course, travel safely in the wilderness, and practice low impact camping skills.

PETE 153 Aquatics I (1)

This course includes development of skill proficiency and an increased understanding in basic aquatic adjustment skills, survival techniques, stroke mechanics, and elementary diving skills. Emphasis is placed on rhythmic breathing, drownproofing, treading, and the ability to perform elementary backstroke, sidestroke, front crawl, back crawl, and breaststroke in acceptable form. Principles of hydrodynamics are presented. Prerequisites: Deep-water entry, 50 yard swim.

PETE 157 Outdoor Adventure Workshop (1)

This course provides an introduction to outdoor adventure activities including: group games or initiatives, high and low ropes course elements, camping, canoeing, backpacking, map and compass, angling and casting, and outdoor cooking. The course is offered in a concentrated time block. Students are housed at Stony Acres. An additional course fee is assessed for meals and canoe rental.

PETE 165 Golf I (1)

This course provides instruction in the basic strokes for the game: driving, approaching (long and short), and putting. It also covers the history of the sport, rules, courtesy, and fundamental strategy. Play on a golf course is required.

PETE 167 Track and Field Events I (1)

This course focuses upon the basic techniques involved in sprinting, hurdling, distance running, relays, and the throwing and jumping events. Instruction emphasizes skill acquisition through sequential learning steps.

PETE 170 Basketball I (1:0:3)

The course is designed to analyze the game of basketball, to develop the basic skills necessary to play the game, to develop an understanding and the use of basic offensive and defensive strategy, and to demonstrate a knowledge of the rules and their interpretation.

PETE 171 Field Hockey I (1)

Field Hockey I will acquaint the student with the fundamental nature of the sport, enable the student to understand offensive and defensive play, and provide the student with the basic performance skills necessary for play.

PETE 172 Football I (1)

This is a basic course designed to teach the fundamentals of football techniques including blocking, tackling, pass catching, throwing the ball, offensive and defensive line play, linebacker skills, defensive and offensive backfield play, and kicking the ball (punts, extra points and field goals).

PETE 173 Lacrosse I (1)

Emphasis on this course is placed on understanding, by performance and verbalization, the fundamental aspects of play skills, basic offensive and defense strategy and the relationships between these elements as they contribute to effective play. (USWLA Rules, 12 players, natural boundaries, and no contact.)

PETE 174 Soccer I (1)

This course is designed to acquaint the student with the fundamental skills of the game of soccer and to provide an understanding of the application of the skills for classroom situations.

PETE 177 Wrestling I (1)

Wrestling I is designed to give the student knowledge and understanding of the basic rules, skills, and strategies involved in wrestling, so that the student can demonstrate these factors in both instructional and competitive situations.

PETE 180 Baseball I (1)

This is a basic course to develop an understanding of baseball techniques, the performance of its basic skills, and the methods used in the teaching of these skills.

PETE 181 Softball I (1)

Softball I is designed to enable the student to recognize the nature and scope of softball and to understand softball rules and apply these rules in softball games. The student will develop ability in the execution of basic softball skills and application of game strategy.

PETE 182 Badminton (1)

This course is designed to provide the student with experiences relevant to the execution and analysis of the basic skills of badminton (serves, clear, smash, drop, drive, and net shots). The student should be able to apply the rules and basic strategy of singles and doubles in a recreational tournament situation.

PETE 183 Racquetball (1)

Racquetball is designed to teach the fundamentals of the game. Included are stroking techniques, game tactics, and practice in singles, threes, and doubles play in competitive situations. Supplementary information concerning the history and rules of the game is also presented.

PETE 184 Tennis I (1)

The focus of this course is effectiveness in the performance of the serve, the serve return, forehand and backhand drives, approaches, and volleys. The course includes knowledge of stroke production and selection in relation to placement and speed of the ball, knowledge of rules, scoring, terminology, as well as basic strategy for singles and doubles play and awareness of the social and cultural conduct and functions of tennis in the United States.

PETE 185 Volleyball I (1)

This course is designed to analyze the game of volleyball, to develop the basic skills necessary to play the game, to develop an understanding and use of basic offensive and defensive strategy, and to demonstrate a knowledge of the rules and their interpretations.

PETE 200 Movement and the Learning Process (3)

This course is designed to acquaint the student with research findings, empirical evidence, and theoretical constructs regarding movement and learning; emphasis is placed upon the state of the learner, the learning process, and the conditions for learning.

PETE 216 Creative Dance for Children (2)

This course is designed to introduce students to the fundamentals of teaching creative dance for children including a conceptual approach to dance and fostering children's growth through a creative, child-centered dance curriculum. It will include information on the nature of dance for children, choosing age-appropriate topics, strategies for facilitation of dance experience, and group discussions as well as guided practical experiences. Prerequisite: PETE 110.

PETE 242 Movement Experiences in Early Childhood Education (3)

Course content covers growth characteristics, motor development, physical and perceptual motor abilities, self-concept, and play behaviors of the early childhood population. The student will be expected to apply these concepts by using various assessment tools to determine children's developmental levels and by designing and teaching developmentally appropriate lessons to children. Prerequisite: ECED 162.

PETE 286 Early Internship (1 to 3 credits)

This experience enables a student to explore the role of a professional in a sport fitness or rehabilitation setting under the close supervision of a work-site supervisor. Prerequisites: 30 semester hours; 2.0 QPA; department approval.

PETE 290 Special Topics (Semester hours arranged.)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

PETE 300 New Games and Adventure Activities (1)

This course involves nontraditional games and exercises, group initiative problems, low and high ropes course elements. Spotting, belaying, and new games leadership skills will be developed. The student will have the opportunity to meet new challenges, take risks, and overcome obstacles through individual and group effort. Extensive use will be made of the Stony Acres ropes course. All students must show evidence of health/accident insurance coverage.

PETE 302 Psycho-Social Aspects of Children's Activity (2)

This course analyzes movement activities as psycho-social phenomena, including consideration of the symbolic and cultural nature of movement forms within a framework of student personality, motivation, social values and organization.

PETE 305 A Tactical Approach to Games I (1)

This course emphasizes the conceptual similarities among target and net/wall sports.Performances of basic strategies, as well as knowledge of teaching concepts that cross the sport categories will be emphasized. Students will analyze strategies and draw inferences to expand student learning through the use of debate of ideas and questioning. Pre-requisite: PETE 100, and admission to HP-CTPE Program.

PETE 306 A Tactical Approach to Games II (1)

This course emphasizes the conceptual similarities among hit/run and invasion sports. Performance of basic strategies, as well as knowledge of teaching concepts that cross the sport categories will be

emphasized. Students will analyze strategies and draw inferences to expand student learning through the use of debate of ideas and questioning. Prerequisites: PETE 111, PETE 120, PETE 143, PETE 153, or PETE 453.

PETE 310 Movement for the Performing Artist (3)

This course examines experientially the special qualities of movement as a performing art and the application of movement in the delineation of situation, character, mood. The attainment of control, kinesthetic sensitivity, and the ability to move with clarity and expression are important goals of the course. Prerequisite: PETE 110 or equivalent.

PETE 341 Movement Experiences for the Intermediate Grade Child (1)

This course is a study of movement experiences appropriate for intermediate grade children. Attention is focused upon selecting and designing appropriate teaching practices. Emphasis will be placed on the use of a variety of instructional strategies and on children's response to learning environments. Included is a practice teaching experience with emphasis on small-sided games, conditioning, and leisure time activities. Prerequisite: PETE 307, Admission to Teacher Certification Program.

PETE 343 Analysis of Teaching Physical Education (2)

This course emphasizes the study of teaching and learning in physical education settings. The candidates will learn and apply specific observational systems and will analyze data to determine its relationship to existing concepts in teaching and learning. Additionally students will identify effective instructional strategies to address the needs and maximize instructional access to all students. Evaluation of teacher feedback data will provide an awareness of the impact of specific feedback related to each student during actual physical education class in the public school. Attention will be focused on the productive involvement of ALL students in physical education settings including cognition, physical, social, behavioral, and language. Prerequisite: Admission to Teaching Certification Program.

PETE 344 Motor Learning and Development (3)

This course is designed to acquaint the student with research findings, empirical evidence, and theoretical constructs regarding movement and learning; emphasis is placed upon the state of the learner, the learning process, and the conditions for learning. In addition, this course acquaints the student with the motor development of preschool through adolescent children. It prepares the student to derive implications for the teaching of physical education from motor development research in the psychomotor and cognitive domains and gives the student practical experiences in assessing motor development through laboratory experiences. Prerequisites: PETE 100 and admission to HP-CTPE.

PETE 345 Adapted Physical Education (3)

This course provides the students with the competencies necessary to screen and evaluate the needs of individuals with various physical and/or mental disabilities. Developing goals and learning objectives in the area of motor fitness as well as adapting activities based on the needs of the individual are emphasized. Students will participate in an intense field experience. Prerequisites: Admission to Teacher Certification Program.

PETE 353 Lifeguard Training (1)

Successful completion of this course leads to acquisition of the American Red Cross Lifeguard Training Certificate. This course replaces the Advanced Lifesaving course. The Lifeguard Training course will provide participants with the skills and knowledge required to be a lifeguard at a swimming pool or a protected (non-surf) open-water beach. Prerequisites: 500 yards continuous swim consisting of front crawl, breaststroke and sidestroke; retrieval of 10 pounds from 8 feet of water and treading water for 2 minutes using the legs only.

PETE 360 Gymnastics Certification (3)

An in-depth analysis of the major areas affecting mechanical analysis of gymnastic movement, trends and innovations of gymnastics, and teaching methodology for basic to advanced level skills. Additional emphasis centers around a critical review of the research relevant to safety and spotting in the gymnastics discipline. Prerequisites: PETE 160 or 161 or equivalent.

PETE 400 PE Teaching and Assessment Strategies (3)

This course is a study of the application of standards-based practice best instruction and assessment related to physical education and physical activity. Differentiated instruction, efficient planning and assessment, coordinated delivery and use of multiple instructional strategies will be emphasized. Students are required to participate in a concurrent intense field experience. Prerequisites: PETE 307, PETE 341, PETE 343, PETE 344, Admission into HP-CTPE Program and Pass Praxis 2: Fundamental Subject Content Knowledge exam.

PETE 410 Meeting Children's Needs Through Movement Activities (3)

This course is an opportunity for elementary classroom teachers, physical educators, occupational, recreational, physical and play therapist, school counselors, parents and others who work with children to gather new ideas and activities to use in meeting children’s social, emotional, cognitive, as well as physical needs. Emphasis will be placed on activities that can be done within the classroom or other limited space as well as those which can be done in the gymnasium or on the playground or field. These activities are inclusive of all participants. Prerequisites: PETE 306 and 341.

PETE 440 Physical Education Student Teaching (5-6)

This course included two placements for student teaching, one at the elementary level ((PK-6) and the other at the secondary level (7-12). This course is guided by the collaborative efforts of a university supervisor, a department content specialist, and two different cooperating teachers. Prerequisites: Admission to HP-CTPE, Passed Praxis: Fundamental Subjects-Content Knowledge; All required PETE 300-400 level courses, PSED 161, 242: minimum 96 credits, minimum 2.8 QPA overall & PE.

PETE 441 Movement Activities for Special Populations (1)

This course is a study and presentation of movement experiences appropriate for individuals with various physical and/or mental disabilities. Understanding the nature of sensory, cognitive, behavioral, and physical disabilities will facilitate strategies for instructing and modifying activities for individuals with disabilities is emphasized. Additionally, information regarding recent federal public law will be disseminated as well as the development of an individualized education program (IEP) for an individual with a disability. Lastly, students will gain hands-on experience teaching individuals with disabilities in a physical education environment. Prerequisites: PETE 306, 341, and admission to HP-CTPE.

PETE 442 Movement Experience for Secondary Education (1)

This course is a study of movement experiences appropriate to all students enrolled in secondary physical education courses. Attention is focused on the developmentally appropriate movement experiences designed to advocate the promotion of healthy life styles

and concepts, principals and strategies of movement. Practical teaching experiences with junior and senior high school students are included. Prerequisites: PETE 307, PETE 341, PETE 343, PETE 344 Admission into HP-CTPE Program and Pass Praxis 2: Fundamental Subject Content Knowledge.

PETE 445 Organization and Administration of Physical Education (2)

This course is designed to enable the student to demonstrate ability to utilize accepted practices of administering physical education programs as well as intramurals, clubs, and interscholastic sport. It includes in-depth analysis of administrative concepts as they relate to practice. Prerequisites: PETE 100; for teacher certification students: PETE 100 and 400 (or concurrent registration in 400) and admission to HP-CTPE.

PETE 446 Curriculum and Evaluation (2)

This course provides an opportunity for the student to demonstrate knowledge of the principles and procedures of standards-based education curriculum construction, of the procedures whereby observable learned behavior can be evaluated, and of the techniques for organizing and treating data. Prerequisites: PETE 341, 400 (or concurrent registration in 400) and admission to HP-CTPE.

PETE 453 Water Safety Instructor (1)

Satisfactory completion of this course leads to certification as a Red Cross Water Safety Instructor. The course focuses on the development of skill proficiency and teaching proficiency of swimming and lifesaving skills. The Red Cross Introduction to Health Services Education course (IHSE) is incorporated into the Water Safety course. Prerequisites: Current lifeguard training card and successful completion of Red Cross swimming prerequisite.

PETE 454 Lifeguard Instructor (1)

Satisfactory completion of this course leads to certification as an American Red Cross Lifeguard Instructor. This course prepares instructor candidates to teach Lifeguard Training, Basic Water Safety, Emergency Water Safety, and the Lifeguard Review course. Prerequisites: Lifeguard Training Certificate (FIT/PETE 353); Current CPR Certificate/standard First Aid Certificate.

PETE 485 Independent Study (Semester hours arranged)

This course deals with independent research and study under the direction of a faculty member and is designed to deepen the student's interest in a particular area of an academic field. The directing faculty member will be available exclusively to the student for a minimum of five hours per credit. Approval for enrollment must be obtained from the faculty member and from the department chair. Approval and granting of credit must be in accordance with procedures and standards established by departmental faculty. The student must present a study prospectus prior to approval. Prerequisites: PETE 100, 15 credits in PETE.

PETE 486 Field Experiences and Internships (Semester hours arranged)

Requirements for Approval: All internship sites must be approved by the department faculty. Each application for an internship must be approved by the faculty member in charge of the experience, the director/supervisor of the site where the internship will be done, and the department chair. Before application is made, students must meet the following requirements:

1. Have faculty recommendation based on qualities essential for success in the assigned environment.
2. Have successfully completed at least 96 semester hours of credit.
3. Have no incomplete grades in required courses.
4. Have a minimum average of 2.0 GPA overall and in the major.
5. Application deadlines are:
   a. October 15 for spring semester internships;
   b. March 15 for fall and summer internships

PETE 499 Student Teaching Internship (1)

This course is designed to provide the candidate with an opportunity to work with a Physical Education Content Specialist during the clinical semester. The course will enhance the candidate's ability to understand and maximize the relationship between the subject matter and pedagogy. Prerequisites: Concurrent with PETE 440 and HLTH 431.

Physics

College of Arts and Sciences

The Faculty of Science
Gessner Science Hall, Room 107
570-422-3341.....www.esu.edu/physics

The Physics department offers baccalaureate degree programs in Physics, Earth and Space Science, General Science, and Secondary Education. These programs are designed to prepare students for post-graduate study and/or careers in teaching and engineering, as well as careers in other fields that require knowledge of physics and/or earth and space science. ESU's Secondary Education programs are accredited by the National Council for Accreditation of Teacher Education.

Eight baccalaureate degree programs are offered: a bachelor of science in Physics; a Bachelor of Science in Physics (Secondary Education); a Bachelor of Arts in Physics; a Bachelor of Arts in Physics (Engineering Transfer Program); a Bachelor of Arts in Physical Science; a Bachelor of Arts in Earth and Space Science; a Bachelor of Science in Earth and Space Science (Secondary Education); a Bachelor of Science in General Science (Secondary Education).

The Bachelor of Arts in Physics is designed for students who seek a broad background in physics, possibly coordinated with a major in a related field. The physics coursework is similar to that required for the Bachelor of Science in Physics (secondary education), which includes 33 credits of education coursework in preparation for a career in physics teaching.

The Bachelor of Science in Physics is designed for students who wish to pursue professional or graduate work in physics or a related area.

Students in this major can choose between three tracks. The professional track provides a strong foundation for graduate work. The Industrial Physics track prepares students for careers in industry that require a strong background in physics. The first three years of the Industrial Physics track mirrors the first three years of the Engineering Transfer Program. The Earth and Space Science track provides a strong base for future study in one or more of the Earth and Space Sciences.

The course requirements and course descriptions for these three programs are listed below, followed by a suggested plan for completing the physics (secondary education) program in eight semesters.

Refer to the *Earth and Space Science* section on page 142 of this catalog for more information on the degree programs in earth and space science and in earth and space science/secondary education.

Refer to the *General Science* section of this catalog for more information on the degree programs in general science and in general science/secondary education.

Refer to the *Engineering Transfer Program* section on page 153 for more information on the cooperative engineering program with the Pennsylvania State University whereby students can transfer to an approved engineering program after completing three years at East Stroudsburg University.

Bachelor of Arts in Physics

Are you interested in...

- Studying and uncovering the mysteries of the universe
- Advancing the frontiers of scientific knowledge
- Working with advanced laboratory equipment to achieve these goals

Choose Physics at ESU

- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty

Is physics a career path for me?

Career Potential

- Physicist
- Process Designer/Engineer
- Systems Analyst
- Patent Examiner

Career Settings

- Academia
- Private Industry and Research Labs
- National Labs
- State, Local, and National Governmental Agencies

More detailed career information is available from the department.

Program Features

27 Semester Hours

- **Required major courses:** PHYS 161, 162, 261, 333, 361, 495; and nine additional credits in Physics 300 level or above.
- **Recommended courses:** MATH 341
- **Corequisite courses:** BIOL 114; CHEM 121, 123, 124, 126; MATH 140, 141, 240. One Computer Science course or its equivalent.
- **Additional requirements:** At least nine credits of required courses (not corequisites), 300-level or above, must be completed at East Stroudsburg University. A minimum of a C must be obtained in all required courses.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
MATH 140 GE: Calculus I	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Laboratory	1
General Education Elective	3
Subtotal	**14**

Sophomore Year

Fall

PHYS 162 GE: Physics II	4
PHYS 121 GE: Astronomy I	3
PHYS 124: Observational Astronomy Lab	1
MATH 240: Multivariate Calculus	4

General Education Elective	3
Subtotal	**15**

Spring

PHYS 161 GE: Physics I	4
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Laboratory	1
MATH 141 GE: Calculus II	4
General Education Elective	3
Subtotal	**15**

Spring

PHYS 261: Physics III	3
PHYS 328: Mathematical Physics	3
PHYS 122 GE: Astronomy II	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

PHYS 361: Physics IV	3
PHYS 428: Theoretical Physics	3
FIT Elective	1
BIOL 114 GE: Introductory Biology I	4
General Education Elective	3
General Education Elective	3
Subtotal	**17**

Spring

PHYS 333: Advanced Physics Lab I	3
PHYS 431: Electromagnetic Theory	4
PHYS 403: Optics	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Senior Year

Fall

PHYS 401: Quantum Physics	3
PHYS 495: Seminar	1
PHYS 415: Computational Physics	3
General Education Elective	3
General Education Elective	3
Subtotal	**13**

Spring

PHYS 421: Statistical Physics	3
PHYS 441: Theoretical Mechanics	3
FIT Elective	1
PHYS 123 GE: Introduction to Physical Cosmology	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**
Total Credits	**120**

Bachelor of Science in Physics

Professional Track:

Are you interested in...

- Studying and uncovering the mysteries of the universe
- Advancing the frontiers of scientific knowledge
- Working with advanced laboratory equipment to achieve these goals

Choose Physics at ESU

- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty

Is physics a career path for me?

Career Potential

- Physicist
- Process Designer/Engineer
- Systems Analyst
- Patent Examiner

Career Settings

- Academia
- Private Industry and Research Labs
- National Labs
- State, Local, and National Governmental Agencies

More detailed career information is available from the department.

Earth and Science Track:

Are you interested in...

- Astronomy
- Geology
- Meteorology

Choose Physics at ESU

- Small class sizes
- Hands-on environment
- Highly qualified and experienced faculty

Is physics a career path for me?

Career Potential

- Astronomer
- Geologist
- Meteorologist

Career Settings

- Academia
- Private Industry and Research Labs
- National Labs
- State, Local, and National Governmental Agencies

More detailed career information is available from the department.

Industrial Physics Track:

Are you interested in...

- Figuring out how things work

- Figuring out how to do things better
- Figuring out the world around you
- Building things
- Working hard at something you think is fun or important
- Learning about computers

Choose Physics at ESU

- Excellent relationship with industry
- Small class sizes
- Practical field experiences
- Qualified, experienced faculty

Is physics a career path for me?

Career Potential

- Research Assistant
- Engineering Assistant

Career Settings

- Engineering Firms
- National Labs
- State, Local, and National Governmental Agencies

More detailed career information is available from the department.

43-51 semester hours

Required major core courses: PHYS 161, 162, 261, 328, 361, 431, 495; 333 or 334; plus the completion of one or more of the following tracks:

- **Professional Track** (18 semester hours)**:** PHYS 401, 441; 411 or 421; two of 404, 415, 428, 432, 433, and 471; Three semester hours in a 300-level or above in PHYS, as approved by adviser.
- **Earth and Space Track** (19 semester hours): PHYS 121, 122, 124, 261, 304, 305, 415; Three semester hours, 300-level or above in Earth and Space Science, as approved by adviser.
- **Industrial Physics Track** (26 semester hours): PHYS 111, 201, 202, 240, 415, 493, one course from PHYS 411, 421, 428, 433, 441, 471, two course from PHYS 301, 403, 423, 432, CHEM 371

Corequisite courses for all tracks: (16 semester hours): CHEM 121, 123; MATH 140, 141, 240.

- **Earth and Space Track** (13 semester hours): GEOG 121, 220; BIOL 114, 474
- **Industrial Physics Track** (13 semester hours): BIOL 114, ECON 111 or 112; ENGL 204; CMST 111
- **Recommended courses:** CHEM 124, 126; MATH 110 (or 311), 320, 341.
- **Additional requirements:** At least nine credits of required courses (not corequisites), must be completed at East Stroudsburg University. A minimum of a "C" must be obtained in each of the required courses.

Program Curriculum Plan (Professional Track)

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
MATH 140 GE: Calculus I	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Laboratory	1
General Education Elective	3
Subtotal	**14**

Spring

PHYS 161 GE: Physics I	4
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Laboratory	1
MATH 141 GE: Calculus II	4
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PHYS 162 GE: Physics II	4
PHYS 121 GE: Astronomy I	3
PHYS 124: Observational Astronomy Lab	1
MATH 240: Multivariate Calculus	4
General Education Elective	3
Subtotal	**15**

Spring

PHYS 261: Physics III	3
PHYS 328: Mathematical Physics	3
PHYS 122 GE: Astronomy II	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

PHYS 361: Physics IV	3
PHYS 428: Theoretical Physics	3
FIT Elective	1
MATH 311: Statistics I	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

PHYS 333: Advanced Physics Lab I	3
PHYS 431: Electromagnetic Theory	4
PHYS 403: Optics	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Senior Year

Fall

PHYS 401: Quantum Physics	3
PHYS 495: Seminar	1
PHYS 415: Computational Physics	3
General Education Elective	3

General Education Elective	3
Subtotal	**13**
Spring	
PHYS 421: Statistical Physics	3
PHYS 441: Theoretical Mechanics	3
FIT Elective	1
PHYS 123 GE: Introduction to Physical Cosmology	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**
Total Credits	**120**

For more information, contact Program Coordinator John Elwood at 570-422-3408 or e-mail jelwood@po-box.esu.edu.

Program Curriculum Plan (Earth and Space Science)

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
MATH 140 GE: Calculus I	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Laboratory	1
PHYS 121 GE: Astronomy I	3
PHYS 124 GE: Observational Astronomy Lab	1
Subtotal	**16**
Spring	
PHYS 161 GE: Physics I	4
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Laboratory	1
MATH 141 GE: Calculus II	4
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PHYS 162 GE: Physics II	4
GEOG 121 GE: Physical Geology	3
General Education Elective	3
MATH 240: Multivariate Calculus	4
General Education Elective	3
Subtotal	**17**
Spring	
PHYS 261: Physics III	3
PHYS 328: Mathematical Physics	3
PHYS 304 GE: Modern Physical Astronomy	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

PHYS 361: Physics IV	3
PHYS 333: Advanced Physics Lab 1	3
GEOG 220 GE: Meteorology	3
BIOL 114 GE: Intorductory Biology	3
General Education Elective	4
Subtotal	**16**
Spring	
PHYS 415: Computational Physics	3
PHYS 431: Electromagnetic Theory	4
General Education Elective	3
General Education Elective	3
FIT Elective	1
Subtotal	**14**

Senior Year

Fall

BIOL 474: Oceanography	3
Elective	3
Elective	3
Elective	3
General Education Elective	3
Subtotal	**15**
Spring	
PHYS 421: Statistical Physics	3
PHYS 415: Computational Physics	3
PHYS 495: Seminar	1
Earth Science Elective	3
Elective	4
FIT Elective	1
Subtotal	**15**
Total Credits	**120**

For more information, contact Program Coordinator John Elwood at 570-422-3408 or e-mail jelwood@po-box.esu.edu.

Program Curriculum Plan (Industrial Track)

(Subject to change by the university without notice)

Freshman Year

Fall

ENGL 103: English Composition	3
MATH 140 GE: Calculus I	4
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Laboratory	1

PHYS 111: Engineering Graphics	2
ECON 111 or 112 GE: Principle of Macro/Microeconomics	3
Subtotal	**16**

Spring

PHYS 161 GE: Physics I	4
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Laboratory	1
MATH 141 GE: Calculus II	4
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PHYS 162 GE: Physics II	4
PHYS 220: Statistics	3
ENGL 204: Technical Writing	3
MATH 240: Multivariate Calculus	4
Subtotal	**15**

Spring

PHYS 261: Physics III	3
PHYS 328: Mathematical Physics	3
PHYS 202: Dynamics	3
CMST 111 GE: Speech Communication	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

PHYS 361: Physics IV	3
PHYS 240: Basic Electronics	3
PHYS 333: Advanced Physics Lab 1	3
BIOL 114 GE: Introductory Biology	4
General Education Elective	3
Subtotal	**16**

Spring

PHYS 415: Computational Physics	3
PHYS 431: Electromagnetic Theory	4
FIT Elective	1
General Education Elective	3
General Education Elective	3
Subtotal	**14**

Senior Year

Fall

Physic Elective	3
Physic Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PHYS 415: Computational Physics	3
PHYS 495: Seminar	1
PHYS 493: Research	3
Physic Elective	3
FIT Elective	1
Elective	4
Subtotal	**15**
Total Credits	**120**

For more information, contact Program Coordinator John Elwood at 570-422-3408 or e-mail jelwood@po-box.esu.edu.

Secondary Education

Bachelor of Science in Physics - Secondary Education

Are you interested in...

- Astronomy, Electronics, or Geology
- Sharing your love of science with others
- Encouraging students to discover the world around them
- Helping students begin careers in science

Choose Physics — Secondary Education at ESU

- Small class sizes
- Practical field experiences
- Highly qualified and experienced faculty
- Partnerships with area school districts

Is Physics — Secondary education a career path for me?

Career Potential

- Junior High school Physical Science Teacher
- High school Physics Teacher

Career Settings

- Public High School
- Private High School or Preparatory Academy

More detailed career information is available from the department.

27 semester hours

- **Required major courses**: PHYS 161, 162, 261, 361, 333, 495; and nine additional credits in physics, 300 level or above.
- **Corequisite courses:** BIOL 114; CHEM 121, 123, 124, 126; MATH 140, 141, 240; also one CPSC course.
- **Required professional education courses:** MCOM 262; PHYS 499; PSED 150, 250, 420, 421, 430, 431, 446, REED 350, SPED 350.
- **Additional requirements:** At least nine credits of PHYS used in major at East Stroudsburg University. A "C" or better in all required courses.
- Please see the university requirements in this catalog.

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education.

All teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Coordinator: Professor Robert Cohen, Department of Physics.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSED 161:: Foundations of Education	3
General Education Elective - Group C*	3
MATH 140 GE: Calculus I**	4
General Education Elective - Group A***	3
ENGL 103: English Composition	3
Subtotal	**16**

Spring

PHYS 161 GE: Physics I	4
MATH 141 GE: Calculus II**	4
Computer Science Elective	3
General Education Elective - Group C	3
Fitness Elective	1
Subtotal	**15**

Sophomore Year

Fall

PHYS 162 GE: Physics II	4
MATH 240: Multivariate Calculus**	4
PSED 242: Educational Psychology	3
General Education Elective - Group A - Second English	3
Fitness Elective	1
Subtotal	**15**

Spring

PHYS 261 GE: Physics III	3
General Education Elective - Group C**	3
MCOM 262: Educational Communications and Technology	3
General Education Elective - Group A	3
General Education Elective - Group C	3
Subtotal	**15**

Junior Year

Fall

REED 321: Teaching of Reading in Secondary Schools	3
PHYS 333: Advanced Physics Lab I	3
PHYS 361: Physics IV	3
General Education Elective - Group C	3
CHEM 121 GE: General Chemistry I	3
CHEM 123 GE: General Chemistry I Lab	1
Subtotal	**16**

Spring

PSED 420: Seminar in Secondary Education I	3
Physics Elective	3
CHEM 124 GE: General Chemistry II	3
CHEM 126 GE: General Chemistry II Lab	1
General Education Elective - Group A	3
Physics Elective	3
Subtotal	**16**

Senior Year

Fall

PSED 421: Seminar in Secondary Education II	2
PSED 446: Teaching of Science in the Secondary Schools	3
BIOL 114 GE: Introductory Biology I	4
Physics Elective	3
General Education Elective - Group A	3
PHYS 495: Seminar	1
Subtotal	**16**

Spring

PSED 4:30: Student Teaching in Secondary Education/Middle School/Junior High School	6
PSED 431: Student Teaching in Secondary Education/Senior High School	6
PHYS 499: Student Teaching Internship	1
Subtotal	**13**
Total Credits	**122**

**GEOG 120 (Physical Geography) or GEOG 121 (Physical Geology) are recommended.*

***If MATH 135 (Pre-Calculus) is needed, it should be taken the first semester, with MATH 140 (Calculus I), MATH 141 (Calculus II), and MATH 240 (Multivariate Calculus) taken in the following semesters, replacing the General Education course in the spring semester, sophomore year. An extra General Education course would then be needed, usually scheduled during the summer.*

****CMST 111 (Speech Communications) is recommended.*

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact Program Coordinator Robert Cohen at 570-422-3428 or e-mail rcohen@po-box.esu.edu.

Faculty

Professors:

David Buckley (dbuckley@po-box.esu.edu)

Robert Cohen, Chair (rcohen@po-box.esu.edu)

David Larrabee (dlarrabee@po-box.esu.edu)

Associate Professors:

John Elwood(jelwood@po-box.esu.edu)

Mary Anne Moore (mamoore@po-box.esu.edu)

Assistant Professor:

Mark Stewart (mstewart@po-box.esu.edu)

Course Descriptions

PHYS 101 GE: Physical Science - Force, Matter and Energy (3)

This course examines selected fundamental concepts necessary to the understanding of physical phenomena. Topics included are motion, atomic structure, waves, heat and thermodynamics, and nuclear science. Science as a process – its attributes, strengths, and limitations – is also examined. Demonstrations dealing with physical principles characterize much of the course.

PHYS 102 GE: Physics Liberal Art (3)

This course acquaints students with what physics is and how it is important. It provides an introduction to physics and its development, examines the physical world in which we live, and explores issues and technologies with which physicists and engineers are involved. This course does not involve problem solving and is available to non-science majors with a non-mathematical background.

PHYS 103 Science for Involvement (3)

This course is offered primarily for non-science majors, to help students attain the science literacy and science competencies which are the foundation for acceptable performance in their own chosen fields. The course is group interaction– and activity– oriented, based upon students' selections from a list of the suggested topics.

PHYS 105 GE: Physics for the Inquiring Mind (3)

This is a descriptive course designed to raise the level of scientific literacy, particularly in the basic tenets of physics. Topics include Newtonian mechanics, satellite trajectories, and several areas of current interest.

PHYS 106 GE: Modern Physics (3)

The course examines recent developments that have led to our current understanding of nature and have influenced human thought and values. The universal symmetries, relativity, and quantum mechanics will be examined in depth by exploring the processes of reasoning and investigation that led to their discoveries and a connection sought between modern physical thinking and events of the current scene.

PHYS 107 GE: Physics and Forensic Science (3)

The course considers forensic evidence and the reliability of the data analyzed in the laboratory. It looks at basic physics principles found in optics, statics and kinesmatics and shows how forensic scientists apply them to court room evidence.

PHYS 110 GE: Sound Waves and Light (3)

This course is designed to inform the students of the wave nature of the physical world. It is a qualitative presentation of the phenomena of sound, light, electricity, and magnetism.

PHYS 111 Engineering Graphics (2)

This course includes multiview projections, pictorial drawings, dimensioning, engineering standards and working drawings. It involves an introduction to creative design, space analysis, graphs, graphical mathematics, vector analysis, and design implementation (CAD and manual). Prerequisite: MATH 120 or 121.

PHYS 116 Energy Conservation in the Home (3)

In order to provide a comfortable lifestyle for future generations as well as the present one, intelligent well-informed decisions are necessary. The material presented in this course will help the student understand the problems, options, and costs involved in such decisions so that the student may take informed actions in the use of energy.

PHYS 117 GE: Energy (3)

This course introduces the concept of energy in all its forms and discusses its role in modern society. Discussions include sources of energy, along with their social and environmental impact.

PHYS 118 GE: Solar Energy (3)

This is a course designed to inform the student of the source of solar energy, what's being done to harness this energy, and how students may benefit from solar devices they may build themselves. The course requires very simple calculations and includes the construction of one solar device. Also included are several detailed analyses of the economics of home solar systems.

PHYS 121 GE: Astronomy I: The Sky and Solar System (3)

This course in descriptive astronomy deals with the scientific principles essential to the understanding of astronomy. Topics covered include basic observational astronomy, the historical development of astronomy, spectroscopy and telescopes, planetary science, the origin and evolution of the solar system, and the sun as a star.

PHYS 122 GE: Astronomy II: Stars and Galaxies (3)

This course in descriptive astronomy is a continuation of Astronomy I. The topics covered include observational properties of stars, stellar life cycles, pulsars and black holes, the Milky Way Galaxy, extragalactic astronomy, quasars, and cosmology. Prerequisite: PHYS 121.

PHYS 123 GE: Introduction to Physical Cosmology (3)

This is a descriptive course which introduces current theories on the origin and evolution of the universe. Particular emphasis is placed on how ideas from such diverse areas of study as extragalactic astronomy, relativity, and particle physics have combined to provide a reasonably coherent theory of the beginning of time and the cosmos. Prerequisite: Honors Program.

PHYS 124 Observational Astronomy Lab (1)

This course is intended to give the student experience in the observational techniques of modern astronomy. The course is designed to complement Physics 122 Astronomy 2, but may be taken with Physics 121 Astronomy I. Corequisite: PHYS 121 or 122.

PHYS 131 GE: Fundamental Physics I (4)

Together with Fundamental Physics II, this course covers basic principles and methods of all branches of classical physics at an introductory level. Topics include Newtonian mechanics, gravitation, waves, optics, heat, electricity, and magnetism. Prerequisite: MATH 135.

PHYS 132 GE: Fundamental Physics II (4)

Physics 132 is a continuation of Physics 131. Topics covered include electricity, magnetism, electromagnetic radiation and optics. Some brief material on atomic and nuclear physics as well as quantum mechanics is introduced where possible. Prerequisites: PHYS 131; MATH 135.

PHYS 151 Physics of Flight (3)

This course is intended to give its students knowledge of the forces acting on aircraft in flight maneuvers, the mechanisms of each flight and engine instrument, aircraft electronics, reference frames used in flight navigation, very high frequency omni range navigation techniques, non-directional beacon navigation techniques, the physical background for federal aviation regulations, and necessary weather consideration.

PHYS 152 Physics of Flight Lab (1)

This course is intended to give the student practical applications of the theoretical aspects of the topics covered in PHYS 151. Included in this lab are 10 hours of flight instruction with an FAA certified flight instructor or a student's solo license, whichever comes first. An additional fee is required. Contact the Department of Physics for details.

PHYS 161 GE: Physics I (4)

Together with Physics II, this course covers basic principles and methods of all branches of classical physics at an introductory level. Topics include Newtonian mechanics, gravitation, waves, optics, heat electricity and magnetism. Prerequisite: MATH 140.

PHYS 162 GE: Physics II (4)

Continuation of Physics I. Prerequisites: MATH 140, PHYS 161. Corequisite: MATH 141

PHYS 201 Statics (3)

This course examines the composition and resolution of forces, equilibrium of particles and rigid bodies, centroids, moments and products of inertia, distributed forces, analysis of structures, analysis of beams, friction, and virtual work. Prerequisites: PHYS 161, MATH 140, 141 concurrently.

PHYS 202 Dynamics (3)

This course considers dynamics of particles and rigid bodies, relative motion, dynamic equilibrium, D'Alembert's principle, work, energy, impulse, and momentum. Prerequisites: PHYS 161, 201; MATH 141.

PHYS 240 Basic Electronics (4)

This course is an introduction to basic electronics and instrumentation for scientists. The goal is to introduce the student to modern electronic circuit building blocks – integrated circuits and electronic sensors along with electronic instrumentation. Special emphasis will be placed on the application of the personal computer (PC) as a virtual electronic instrument. The students will receive hands on experience in the use of LabView software that provides a graphical programming environment to use the computer plug-in cards and a PC for analysis and display. This new technology will be used in the study of basic electronic and DC circuits, semiconductor circuit devices (transistors) and analog and digital integrated circuits. Prerequisites: Completion of an introductory physics course and/or permission of the instructor.

PHYS 241 Linear and Digital Electronics (3)

This course is designed for students in the sciences or computer sciences who wish to review basic electricity and how electronic components are combined to form linear (e.g. amplifier) and digital functions.

PHYS 251 CJA: Traffic Accident Investigation (3)

The course considers the physical aspects of traffic accident investigation and reconstruction. Included are such topics as recording information, photography, dynamics of vehicles, and speed determination. It is offered in cooperation with the Institute of Criminal Justice Administration.

PHYS 252 CJA: Advanced Criminalistics (3)

This course considers forensic evidence and data disclosed in the laboratory and its reliability. An understanding of the scope of expert examinations is achieved. The nature of the results expected from laboratory inquiries conducted by trained specialists is realized.

PHYS 253 CJA: Fire and Arson Investigation (3)

This course considers the physical aspects of fire and arson investigation. Included are such topics as properties of materials, physical aspects of fires, physical examination of the fire scene to determine origin, ignition sources and their physical aspects, and characteristic physical features indicating incendiarism.

PHYS 261 Physics III (3)

This course extends the concepts of PHYS 161 and PHYS 162 to an exploration of wave phenomena, thermodynamics, and special relativity. Prerequisites: PHYS 161, 162, MATH 140, 141 and 240 or concurrent enrollment.

PHYS 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

PHYS 301 Strength of Materials (3)

This course explores strength and elasticity of materials, theory of stresses and strains, deflection of beams and shafts, torsion, and buckling of structures. Prerequisites: PHYS 201, MATH 140.

PHYS 304 Modern Physical Astronomy (3)

This course is a quantitative treatment of modern astronomy stressing the application of basic physics for investigating the properties of celestial bodies and systems. Topics will include basic celestial mechanics, radiation and matter, stellar structure and evolution, the structure and motions of galaxies, and cosmology. Prerequisites: PHYS 131 or 161, 121, 122, MATH 140. Corequisite: PHYS 132 or 162.

PHYS 305 Physics of the Atmosphere (3)

This course provides an introduction to the physical process of the atmosphere. Mechanisms affecting heat, moisture and air motion are investigated and related to atmospheric phenomena. Prerequisites: MATH 140, PHYS 131 or 161, GEOG 220, CHEM 121.

PHYS 328 Mathematical Physics (3)

This course introduces the student to common problem-solving techniques used in solving advanced physics problems. Many typical mathematical tools that are essential to solving physics problems are introduced and practiced in this course. Prerequisites: PHYS 162, MATH 240.

PHYS 333 Advanced Physics Lab I (3)

This course is an open-ended but directed laboratory activity in both classical and modern physics. Prerequisites: PHYS 161, 162. Prerequisite or corequisite: PHYS 261.

PHYS 334 Advanced Physics Lab II (3)

This course has the same description as PHYS 333, but different experiments are performed. These two courses can be taken in either order. Prerequisite or corequisite: PHYS 261.

PHYS 350 Cognitive Science (3)

This interdisciplinary course is a study of a topic of common interest in computer science, linguistics, physical science, neuroscience, philosophy and psychology, namely the acquisition, organization, and expression of knowledge. Prerequisite: Honors Program.

PHYS 361 Physics IV (3)

This course introduces the student to the physics of atoms, molecules, nuclei and elementary particles. The course includes early quantum theory, relativistic mechanics, and the wave and quantum properties of photons and electrons; Schrodinger's equation, and its application to the structure of atoms, molecules, and solids; nuclear physics, elementary particles. Prerequisite: PHYS 261, MATH 240, and PHYS 328 or concurrent enrollment.

PHYS 370 The Rise of Modern Science and Technology (3)

The Rise of Modern Science and Technology is an in-depth study of the development of modern physical science and its connection to technology. The models that are considered training points for scientific theory are examined in detail. The mutual interaction of science and technology is presented within the context of scientific development. Prerequisites: Introductory science course at the college level and junior standing; Honors Program.

PHYS 380 Radioisotopes (3)

This course is a study of the origin and characteristics of nuclear radiations emitted from radioisotopes and their attenuation in matter. Laboratory emphasis is placed upon detection and measurement of nuclear radiations and the use of radioisotopes in scientific studies and research. Prerequisite: PHYS 105 or 117 or 131 or 161.

PHYS 401 Quantum Physics (3)

This course introduces ideas of wave mechanics and matrix mechanics. Schrodinger's equation is applied to simple problems. Approximation techniques for the more difficult problems of nuclear and atomic physics are studied. Prerequisites: PHYS 361, MATH 341.

PHYS 402 Contemporary Topics in Science (3)

This course deals with the nature and theoretical basis of recent noteworthy advances in science. Interdisciplinary in design, the course draws its content from the various disciplines of the natural sciences. Emphasis is placed upon topics being reported upon in professional journals. This course also listed as BIOL 402, and CHEM 402. Prerequisite: PHYS 105 or 117 or 121 or 131 or 161.

PHYS 403 Optics (3)

This course will cover geometrical, wave optics and applications of optical phenomena used in industry with an emphasis on how mathematical models of these phenomena are used. Possible topics include diffraction, fourier optics, basics of coherence theory, laser technology, holography and non-linear optics. Prerequisite: PHYS 261 and 328.

PHYS 404 Introductory Astrophysics (3)

This is a course in modern astrophysics stressing the application of physical concepts to the study of the heavens. Topics will include radiative transfer, astrophysical radiative processes, stellar structure and evolution, compact stars and black holes, galactic and extragalactic astrophysics, and cosmology. Prerequisites: PHYS 121, 361, MATH 141.

PHYS 405 The Development of Modern Physical Science (3)

This course examines past works and philosophical thought of noted physical scientists. Emphasis is placed on the nature of scientific discovery and the processes of science. This course is also listed as CHEM 405. Prerequisite: PHYS 105 or 117 or 121 or 131 or 161.

PHYS 411 Thermal Physics (3)

This course deals with heat and thermodynamics and applications to special systems, kinetic theory of gases, and statistical mechanics. Prerequisites: PHYS 162; MATH 141.

PHYS 415 Computational Physics (3)

This course will introduce students to the new and expanding field of Computational Physics. They will learn how to use the computer to solve equations that cannot be solved analytically ("by hand"). Besides reading and learning about the techniques, students will be expected to actually write software to implement some of the techniques learned in class (as homework). This course is meant to extend CPSC

211 Scientific Computing with FORTRAN to more advanced physics problems. Prerequisites: PHYS 162, CPSC 111 (or 211). Corequisite: MATH 341.

PHYS 421 Statistical Physics (3)

Students study large-scale systems consisting of many atoms or molecules. Subjects of statistical mechanics, kinetic theory, thermodynamics, and heat are introduced. Prerequisites: PHYS 162, MATH 240.

PHYS 423 Advanced Electronics (3)

This course will develop the theory of precision operational amplifier circuits, analog to digital converters, digital to analog converters and analog switches. The course will introduce the student to digital design using discrete circuits, PAL's and Field Programmable Gate arrays. The student will learn about the control and interfacing of these circuits to microcontrollers as well as understanding the implications of hardware vs. software control and processing of signals. Prerequisites: PHYS 240, MATH 140, 141 and either PHYS 162 or 132.

PHYS 428 Theoretical Physics (3)

The main thrust of this course will be the application of various standard mathematical techniques to the solution of upper level problems in Mechanics, Electromagnetism, Wave Theory, Fluid Dynamics, Statistical Mechanics, Quantum Physics, and Relativity. Students considering advanced study or employment in the field of Physics or Engineering are highly encouraged to enroll. Prerequisites: PHYS 261, MATH 240.

PHYS 431 Electromagnetic Theory (4)

This course starts with an introduction to electrostatic problems. The student is then introduced to special relativity and the Lorentz transformation. Special relativity is then used to transform the electrostatic problem to understand magnetic fields, Maxwell's equations, and electrodynamics. Finally, an introduction to electromagnetic waves and their propagation is developed. Prerequisites: PHYS 161, 162. Corequisite: MATH 341.

PHYS 432 Applied Electromagnetic Theory: Radio Waves and High Frequency Circuits (4)

This course will apply Maxwell's equations to the propagation of electromagnetic waves in free space, wave guides and coaxial cables. The transmission line equation will be developed and analyzed for the case of real practicable transmission line. Maxwell's equations will be used to analyze antennas. Prerequisites: PHYS 161, 162, 431 and Math 341.

PHYS 433 Atomic and Nuclear Physics (3)

This course examines the quantum-mechanical basis of atomic and nuclear structure and studies the phenomena of atomic and nuclear transitions. Prerequisite: PHYS 361.

PHYS 441 Theoretical Mechanics (3)

This course discusses the application of Newtonian mechanics to more complicated systems than those studied in Physics I. Prerequisites: PHYS 261, 328, MATH 240.

PHYS 471 Special Problems in Physics (3)

This course introduces the student to detailed and complete treatments of problems which require expertise from several areas. Prerequisites: PHYS 161, 162, 261,361.

PHYS 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular academic discipline. Independent study is a process through which a student either sharply increases his/her already advanced knowledge of a subject matter or increases his/her appreciation about an academic discipline that is related to a student's advanced knowledge of a subject. The proposed independent study must be submitted to the department for approval. The faculty member supervising the independent study must provide a minimum of five (5) hours of time per credit hour upon request of the student. Prerequisite: PHYS 105 or 131 or 161.

PHYS 486 Field Experience and Internships (Semester hours arranged)

Prerequisite: PHYS 105 or 110 or 117 or 121 or 131 or 161.

PHYS 493 Research in Physics (3)

This course is an experimental investigation selected by the student in consultation with a member of the faculty and carried out under the faculty's supervision. Approximately twelve hours of research per week is required for three credits. Prerequisites: Junior or senior standing as a physics major or by permission of the department.

PHYS 495 Seminar (1)

Participants perform self-guided, in-depth examinations of relatively common phenomena, contemporary issues and/or recent research in physical and related fields. Supporting evidence and theory is documented in formal written and/or oral reports by participants. Attendance in departmental colloquia is required. Prerequisites: PHYS 131 and 132, or 161 and 162.

PHYS 499 Student Teaching Internship (1)

This course is designed to provide the student with an opportunity to work with a faculty member in the student's primary Arts and Sciences discipline during the student teaching experience. The course will enhance the student's ability to understand and maximize the relationship between disciplinary subject matter and pedagogy.

Political Science

College of Arts and Sciences

The Faculty of Social Sciences
Stroud Hall, Room 409
570-422-3286.....www.esu.edu/pols

About the Program

East Stroudsburg University's Political Science curriculum comprises the systematic study of the theory and practice of politics at various levels – domestic, international, public and private sectors. Depending on their interests, undergraduates can focus on questions of a theoretical nature, the role and performance of political institutions and political systems, or the behavior of individuals and groups. Our Political Science degree prepares students to work in both the public and private sectors. Many majors also use this preparation as a basis for further study in graduate school or law school.

An ESU student who majors in Political Science earns a bachelor of arts degree. Several options are available to Political Science majors.

Students may choose among three major tracks:

- Track I: Politics and Government
- Track II: Public Administration
- Track III: Pre-Law

The Politics and Government track is the traditional liberal arts political science major. The Public Administration track prepares students for public service in national, state, or local governments. The Pre-Law track prepares students to attend law school.

Students may also choose to do a dual major in Social Science and Education with a Political Science Emphasis. See the *Social Studies* section of the catalog.

Are you interested in...

- Interacting with diverse populations
- Developing and marketing ideas
- Making informed decisions
- Thinking analytically
- Politics

Choose Political Science at ESU

- Small class size
- Qualified, experienced staff
- Internships and job placement
- Study Abroad programs

Is Political Science a career path for me?

Career Potential

- Law school
- Political consultant
- Ambassador
- Paralegal
- Lobbyist

Career Settings

- Local, state and federal government
- Political campaigns
- Nonprofit organizations
- International organizations
- Multinational corporations

More detailed career information is available from the department.

Faculty

Professors:

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Bachelor of Arts in Political Science

Students may choose between four major tracks: The Politics and Government track is the traditional liberal arts political science major. The Public Administration track prepares students for public service in national, state, or local governments. Students may also choose to do a dual major in Social Science and Education with a Political Science Emphasis. See the *Social Studies* Section of the catalog.

Students must also be aware of the University-wide requirements in this catalog.

Note: Students majoring in Political Science may not accumulate more than 15 credit hours, total, of internship credit toward graduation. The department does not accept transfer credit in upper division coursework (i.e., 300 or 400 level courses) for political science courses completed at community colleges, junior colleges, trade schools, etc.

Track I - Politics and Government – 33 to 40 semester hours.

Students must maintain a 2.00 QPA for courses in this track.

- **Required courses**: POLS 111, 211, 317, 495; one or more courses from each of the following groups:
- **American Government and Public Administration:** POLS 293, pols 295, 312 413, 435, 454, 466, 467, 486, 487.
- **International Relations and World Affairs:** POLS 222, 322, pols 331, 422, 438, pols 441, 442, 445, Pols 450.
- **Comparative Government and Area Studies:** POLS 223, 230, 231, 233, 263, 332, 333, 343, 355, 424, 426, Pols 470, Pols 471.
- **Political Theory:** POLS 225, 243, 352, 452, 453, 462, 468.
- Please see the university requirements in this catalog.

Track II - Public Administration –39 to 40 semester hours.

Students must maintain a 2.00 QPA for courses in this track.

- **Required POLS courses:** POLS 111, 201 211, 293, 314, 416, 466, 467, 468, 486 (27 credits); choose one: POLS 313, 435, 454 (3 credits); choose one: POLS 223, 230, 231, 332, 333, 343, 424 (3 credits); choose one: POLS 315, 317, 413, 414, 445 (3 credits). Total POLS credits 39-45
- Please see the university requirements in this catalog.

Track III - Pre-Law – 57 semester hours with corequisite

Students must maintain a 2.50 QPA for in this track to graduate.

- **Required POLS courses:** POLS 111, 211, 317, 495 (12 credits); choose one: POLS 222, 352, 452, 453, 468 (3 credits); choose three: POLS 313, 315, 413, 414, 416, 445 (9 credits); 12 additional POLS credits at the 300 or 400 level with at least one course in comparative politics (12 credits). Total POLS credits 36.
- **Corequisites:** ENGL 162 (3 credits); PHIL 221 (3 credits); choose one: MATH 100, 101, 110, 130, (3 credits); choose one: FLFR 116, FLGR 116, FLLN 116, FLSP 116 (3 credits); choose one: CMST 253 or THTR 102 (3 credits); choose one: PHIL 235, PHIL 238, MGT 225 (3 credits); choose one: HIST 141, 142, 143, hist 144 (3 credits). Total corequisite credits: 21.
- Please see the university requirements in this catalog.

Track IV - Accelerated Law Program with Widener University - 27-40 semester hours

Students must complete all the requirements for Track I - Politics and Government.

This is a six-year cooperative program with Widener University School of Law in Harrisburg that allows students to complete their undergraduate and law school degrees in six years.

Students who successfully complete the program will spend three academic years at East Stroudsburg University leading to a bachelor's degree in Political Science. Before or during the first semester of their junior year students must take the Law School Admission Test (LSAT). Students must score at or above the 50th percentile on the LSAT and have attained a cumulative GPA of 3.3 or higher by their first semester junior year.

Students must also submit a completed application and meet all other Widener University School of Law admission requirements. The first year at Widener will fulfill students' remaining requirements to earn the appropriate bachelor's degree. Students must also meet the following requirements:

Declare Participation
Students wishing to participate in this program must have the approval of their adviser and declare their intention to participate in the program with the Pre-Law Adviser prior to the start of their sophomore year. Students must complete a plan of study in conjunction with their academic adviser and the University Pre-Law Adviser.

University Requirements
Students must complete all university requirements, except for the following:

A. Students will reach the 120-credit requirement by transferring credits earned during the first year at Widener University School of Law. However, students must obtain prior approval for the transfer of these credits.
B. Students must apply for a waiver of the university requirement that their last 32 credits be taken at East Stroudsburg University.

First year at Widener: Students must attend on a full-time basis for the first year or until they receive their bachelor's degree.

Political Science Minor

Politics and Government Concentration (18 semester hours)

Required courses: POLS 111, 211. Twelve additional credits of POLS 200 level and above classes. At least six of these credits must be 300 and/or 400 level courses.

Pre-Law Concentration (18 semester hours)

Required courses: POLS 111, 211; choose two: POLS 313, 413, 416, 445; Six additional credits of POLS 200 level or above.

Corequisites: ENGL 162 (3 credits); Choose one: PHIL 221, MATH 100, 101, 110, 130, EMGT 211 (3 credits); Choose one: CMST 253 or THTR 102 (3 credits).

European Studies Concentration (18 semester hours)
Required courses: One of the following, HIST 270, 271, 272; three of the following: POLS 332, 424, 427, 445, 453; two of the following: HIST 282, 335, 350, 371, 381, 382, 471, 473, 474, GEOG 234, PHIL 318, 353, 356, 357, 418, 447, FLSP 444, FLFR 343, MUS 211, 311, or any of the courses in the POLS section not taken for the Political Science requirement for the minor. Nine credits must be at the 300/400 level.

For more information, contact the department by calling 570-422-3286 or visit Stroud Hall, Room 409 570-422-3286 www.esu.edu/pols

Course Descriptions

POLS 101 GE: Basic Issues of Politics (3)

This course explores the major social and political questions that confront the American people. It discusses the conflict that every voter in the nation faces as American democracy strives to bridge the gap between promise and performance, between the ideal and the real in the American political experience.

POLS 111 GE: Principles of Political Science (3)

This course is an inquiry into such fundamental concepts as state, sovereignty, law, rights, citizenship, liberty, and constitution; included are a study of the functions of government and an identification of the standard institutions for implementing those functions.

POLS 117 GE: Introduction to Global Politics (3)

This course in an introduction to issues in global politics. It examines major political issues of global society, such as war, terrorism, nuclear arms control, international organizations, global political economy, and global environmental preservation. It also considers the United States' responsibility in global politics.

POLS 201 GE: Elements of Public Administration (3)

Elements of Public Administration is an introductory course in public service. It is concerned with American government planning, organizing, and operation necessary for governance on the national, state, and local levels. This course provides the student with an overview of the concepts and frameworks necessary for public service, such as bureaucracy; promulgation of regulations; public management; public budgeting and financial management; public personnel management; public policy analysis; and planning.

POLS 211 GE: American Government (3)

This course analyzes the basic principles of our federal, state, and local governments with emphasis on the Constitution of the United States and its interpretation as well as the machinery through which it is implemented. Students examine the structure, organization, power, procedures, methods, and functions of executive, legislative, and judicial branches.

POLS 222 GE: Contemporary Political Ideologies (3)

This course will give the student an understanding and appreciation of important contemporary ideologies such as Conservatism, Liberalism, Marxism, Fascism, Nationalism, and such movements as Feminism, Environmentalism, and Fundamentalism.

POLS 223 GE: Developing Countries (3)

This course examines the features common to all developing countries of Africa, Asia, and the Middle East, assesses the efforts to raise the levels of social, economic, and political development of these areas, and includes a detailed study of the goals and capabilities of the political systems of a few selected countries.

POLS 225 GE: Politics through Literature (3)

This course is an examination of selected fictional works which deal with basic political themes and concepts, e.g., social justice, the political process, ideology, power, various issue areas, etc. It is an analysis of literature and the writer as instruments of political action and change.

POLS 230 GE: Asia (3)

The course examines the history, culture and political developments of selected countries in Asia. Students will focus on their economic strategies and concepts of government. They will also examine the differences and commonalities within Asia and outside the subregion Prerequisite: Any One of POLS 111, 211, 223 or 231.

POLS 231 Introduction to Comparative Government (3)

This course introduces students to a cross section of governments outside the American political environment. It analyzes the structure and history of selected governments from Asia, Africa, South and Central America, Australia and Europe. The course provides a theoretical and analytical platform to compare governments and societies of different geographic and cultural background.

POLS 243 GE: Women and Politics (3)

The course will analyze the role and status of women in past and contemporary societies. Students examine the meaning and significance of current feminist movements and their impact on politics and society. The lives of outstanding women are also examined. Prerequisite: Any one of POLS 111, 211, 222.

POLS 290 Special Topics (Semester hours arranged.)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

POLS 293 GE: Public Policy and Administration (3)

This course examines the role and scope of public administrators and the challenges that confront them. It also analyzes the stages of the public policy process as well as the internal and external factors that impact public policy. Administration and public policy-making both within and outside America will be surveyed. Prerequisite: POLS 211.

POLS 312 GE: Political Parties and Politics (3)

This course traces the development of political parties, their functions, organization and effectiveness, with a view toward establishing greater party responsibility in the body politic. Prerequisite: Either POLS 111 or 211.

POLS 313 GE: Courts and the Judicial Process (3)

This course examines the various connections between politics and courts. Attention is focused on the role of law in American society and how courts and the people affiliated with courts both implement and make public policy. Prerequisite: Either one of POLS 111 or 211.

POLS 314 GE: State and Local Government (3)

This course is an introduction to state and local governmental institutions and processes, and the way they are interrelated with the federal system, with special emphasis on the contemporary needs of the local community. Prerequisite: Any one of POLS 111, 211, or 222.

POLS 315 Introduction to Legal Research (3)

This course introduces the primary skills necessary for legal research and writing. Emphasis will be placed on the essential steps necessary for proper legal research and on the use of various legal resources. Prerequisite: Either POLS 111 or 211.

POLS 317 Exploring Politics: Methods and Techniques (3)

The course deals with the principles and assumptions of political inquiry, and specific techniques for analyzing political data. Emphasis is placed on empirical techniques. It teaches students how to utilize the research products of political inquiry. Research projects are based on each student's specific area of interest. POLS 111, 211.

POLS 322 GE: International Relations (3)

This course examines the major theories, processes, and units that comprise the study of politics and the international system. Areas of particular emphasis include sovereignty, nationalism, and warfare. Prerequisite: Any one of POLS 111, POLS 211.

POLS 325 Racial and Ethnic Politics (3)

This course on racial and ethnic minorities in American politics will examine the effects of discriminatory practices and efforts to achieve civic equality for ethnic and racial minorities in the United States since its founding. The course will explore the experiences of African Americans, Asian Americans, Hispanic Americans, and Native Americans as citizens, activists, leaders and policymakers in the context of the discriminatory practices in law and customs. Prerequisite: POLS 111 or 211.

POLS 332 GE: Comparative European Government (3)

This course is a study of major types of government with emphasis on European democracies; comparison is used as a detector of problems and as a method for developing better solutions; differences in character, traditions, and conditions are examined to develop an understanding of problems facing people of the respective countries. Prerequisite: Any one of POLS 111, 211, 223 or 231.

POLS 333 GE: Africa (3)

This course aims at a general understanding of the main historical and political developments that led to independence. Emphasis will be on the growth of nationalism, the end of colonialism, and the search for African identity, unity, and development. This course is also listed as HIST 333. Prerequisite: Any one of POLS 111, 211, 223, or 231.

POLS 343 The Middle East (3)

This course surveys the history and politics of the Middle East, background studies in the revolutionary nationalism of the modern period, analyses of contemporary problems and events, and prognoses within the framework of international diplomacy. This course is also listed as HIST 343. Prerequisite: Any one of POLS 111, 211, 222, 223 or 231.

POLS 352 GE: History of Political Theory (3)

This course traces the evolution of major political concepts in Western Civilization from the ancient Greeks to the 17th century. The focus is on the origins of democracy and authoritarianism. Prerequisite: Any One of POLS 111, 211, or 222.

POLS 399 European Union Studies (3)

This course teaches students about the world's largest free trade area, and the most successful regional integration project in history, utilizing a participatory learning approach. Students first study and

research policy, institutions, negotiation strategy and diplomacy, before applying acquired knowledge in simulations. Prerequisites: POLS 111 or 211, and POLS 231 or 332.

POLS 413 American Constitutional Law (3)

This course is a study of the context within which our Constitution emerged, the major themes implicit in its development, and its significance in the contemporary political setting. Attention is focused upon the interplay of political forces that have shaped the development of constitutional law with special emphasis upon the Supreme Court as a political and judicial institution. Prerequisites: Advanced standing of 90 credits; any one of POLS 111, 211, or 222.

POLS 414 Constitutional Civil Liberties (3)

This course is a study of the protection of civil liberties in the United States. The focus is on how the United States Supreme Court has decided cases involving, among other things, freedom of speech, freedom of religion, freedom of the press and individual privacy. The course is also an examination of how politics, history, personalities, governmental structures, and political theories affect the protection of individual rights. Prerequisites: Any two of the following: POLS 111, 211, 313, 315 or 413.

POLS 416 Administrative Law (3)

This course is a study of the law of public administration including administrative powers and limitations, adjudication and rule-making, discretion, checks on administrators, notice and hearing, administrative penalties, judicial control and administrative liability. Prerequisites: Any two of POLS 111, 211, 222; ECON 111, 112; HLTH 220, 230.

POLS 420 East Asis and Transpacific Relations (3)

This course examines history, culture, political developments and institutions of East Asian countries with a focus on China and Japan. Students assess the public policies practiced by East Asian governments. They also study the international politics of East Asia with a major attention to the role of the United States in East Asia. Prerequisite: POLS 111 or 101 and 211, and 90 credits.

POLS 427 European Union and External Relations (3)

The European Union, the world's largest free trade area and the most successful regional integration project in history, affects every part of the globe economically, politically and militarily. As such it is critically important to understand its internal workings and relations with other powerful international actors, such as the United States, China or other major states. After examining the EU's evolution and structure, the second half of the course examines transatlantic relations – economically and politically the world's largest and most important relationship – and the relationship with other powerful states, focusing on how they affect the EU and the U.S. Prerequisites: POLS 111 or POLS 211 and POLS 232 or POLS 332.

POLS 429 Introduction to International Political Economy (3)

International political economy (IPE) is concerned with the mutual interactions of political decisions and economic transactions, the so-called market place, in the modern world. This course provides an overview of how political, social, and economic actors and events, domestic and international, public as well as private, shape policies and economic developments. Prerequisites: POLS 111 or 211, and one of POLS 322, 332, 333, 343, or 355.

POLS 435 The Presidency (3)

This course is an analysis of the presidency, its nature and growth of the office, and the politics and problems of seeking the office of the presidency. It includes a functional analysis of the President's roles as chief executive, party leader, and leader in the international political system. Prerequisites: Advanced standing of 90 credits; any one of POLS 111, 211 or 222.

POLS 438 United States Foreign Policy (3)

This course examines the constitutional basis of U.S. foreign affairs: foreign policy, separation of powers, the mechanics of foreign relations, significant principles, tenets and trends as revealed in United States diplomatic history, treaties and executive agreement, traditional and new diplomatic practice, foreign policy and international organization, and the extent of democratic control of foreign affairs. Prerequisite: Advanced standing of 90 credits.

POLS 441 Introduction to International Security (3)

This course introduces students to traditional and new security challenges facing countries and peoples in the twenty-first century. The balance of security versus individual rights, and various international organizations involved in security issues are discussed throughout the course. Pre-requisite(s): POLS 111 or 101, and 211, and 90 credits.

POLS 445 International Law and Organization (3)

This course introduces students to the historic development and current state of the law of nations, key cases are studied to illustrate rules. Certain international institutions are also surveyed, focusing on their independent powers and how they affect state interactions. Prerequisites: POLS 101, POLS 111, POLS 211 and advanced standing of 90 credits.

POLS 452 American Political Ideas (3)

The course will examine and analyze the theoretical foundations and evolution of the American political tradition from the colonial, revolutionary and constitutional periods to the end of the 20th century. Students will read and discuss the writings and thinking of political leaders and important commentators on American politics. Prerequisite: Advanced standing of 90 credits.

POLS 453 European Political Ideas (3)

This course examines the origins and development of the major intellectual traditions of the Western world and their rule in shaping the course of history. Emphasis is placed on the scientific and intellectual revolutions of the 17th and 18th centuries and the rise of ideologies in the 19th and 20th centuries. Prerequisites: Advanced standing of 90 credits; and any one of POLS 111, 211, or 222.

POLS 454 The Legislative Process (3)

This course concentrates on the United States Congress: its role in the evolution of the American political process, the internal workings of the Congress, the environment in which Congress functions, and an assessment of Congressional effectiveness. Prerequisite: Advanced standing of 90 credits, and any one of POLS 111, 211 or 222.

POLS 462 Political Behavior (3)

This course examines citizen behavior in the American polity. Voting behavior, political activism, and partisanship are examined within the framework of socialization theory, stratification theory, and the psychology of politics. Advanced standing of 90 credits; any one of POLS 111, 211 or 222.

POLS 466 Public Budgeting and Finance (3)

This course treats the budget as a policy instrument that sets priorities for government. Students study the politics of the budget process as well as its procedures. Attention is also given to fiscal and monetary policies and to using computer simulations in budgeting. Prerequisites: Advanced standing of 90 credits; Political Science

Political Science

majors: either POLS 111 or 211 plus POLS 293, non Political Science majors, any two of POLS 211, 293, ECON 111,112, HLTH 220 or 230.

POLS 467 Public Personnel Administration (3)

Examine career systems, classification and salary administration, staffing, training, evaluation, rights and duties of employees, equal employment, and labor relations. Prerequisites: Advanced standing of 90 credits; Political Science majors: either POLS 111 or 211 plus POLS 293; non Political Science majors, any two of POLS 211, 293, ECON 111, 112, HLTH 220 or 230.

POLS 468 Strategies for Policy Analysis (3)

Public Policy Analysis is designed to acquaint students with the background, content, purposes, and impacts of public policy decisions. It introduces the qualitative and quantitative techniques that are used to analyze these governmental outputs. Students in the class will be taught to use computerized statistical packages to analyze data relating to one specific policy area. Prerequisites: Advanced standing of 60 credits; any one of POLS 111, 211, or 293.

POLS 485 Independent Study (Semester hours arranged)

A student wishing to take independent study should discuss the plan with a member of the department. If the faculty member agrees to sponsor the project, the proposal should be submitted to the chair of the department. The chair, after approving the independent study project, shall bring it to a departmental meeting for confirmation. The dean of the college gives final approval after receiving the minutes of the departmental meetings which identify the students who were approved by the department to do independent study.

POLS 486 Field Experiences and Internships (Semester hours arranged)

The course is designed to provide the student with practical experience in a governmental agency or other organization with local, state, or national/international governmental or political concerns. Prerequisite: Completion of General Education requirements; advanced standing of at least 90 credits; 12 credits in Political Science, including POLS 111 and 211.

POLS 487 Problems and Projects in Political Science (Semester hours arranged)

Investigation of a specific problem or project in Political Science that requires individualized study and treatment. The process includes compilation of data relevant to the topic. The student will report his/her findings to the instructor who supervises the project. The student is expected to write a formal report that deals with the subject comprehensively and offers conclusions. Periodic conferences are arranged. Prerequisites: Any three courses in Political Science or advanced standing in the department.

POLS 495 Seminar (3)

This course examines major theories and problems in the study of politics. A paper will also be written on the basis of independent political research. Prerequisite: Advanced standing of 90 credits.

Pharmacy Transfer Program

The Faculty of Sciences

See Chemistry, Pharmacy Transfer Program, page 114
www.esu.edu/chem

Professional and Secondary Education

College of Education

Stroud Hall Room 209

570-422-3363.....www.esu.edu/psed

Professional and Secondary Education offers a bachelor of science degree in a specific discipline leading to a teacher certification in the areas of: English, French, Spanish, German (certificate only), Mathematics, Biology, Chemistry, Earth and Space Science, General Science, Physics, or Social Studies.

The curriculum is designed to develop a community of learners who are competent and reflective professionals able to teach any child in any setting. The courses and extensive field-based component develops beginning educators' knowledge, skills, and dispositions relevant to content, the learner and the learning environment, teaching and learning process, and professionalism.

A personalized program will be developed for all students as they work with two advisers, one in education and one in the academic discipline they plan to teach. Students who complete the required courses in one of the certification areas, the professional education courses, the university requirements, and the state requirements will be certified to teach in their major in grades 7-12 within the Commonwealth of Pennsylvania.

ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Secondary Education Certification Program Requirements

Suggested sequence of required courses:

- **First year:** PSED 150 Introduction to Teaching All Students
- **Sophomore year**: PSED 250 Psychology of Learners in Diverse Communities
- **Junior year:** SPED 350 Assessment of Student Learning and Behavior in Diverse Communities, PSED 420 Seminar in Secondary Education I (2.8 QPA required), and *one* content methods course from the list below:
- PSED 406 Teaching of English in Secondary Schools
- PSED 416 Teaching of Foreign Languages in Secondary Schools
- PSED 436 Teaching of Mathematics in Secondary Schools
- PSED 446 Teaching of Science in Secondary Schools
- PSED 458 Teaching of Social Studies in Secondary Schools
- **Senior year (first semester):** PSED 421 Seminar in Secondary Education II (2.8 QPA and department screening required)
- **Senior year (second semester):** PSED 430 Student Teaching in Secondary Education/Middle School/Junior High School, PSED 431 Student Teaching in Secondary Education/Senior High School and XXX 499 Student Teaching Internship (This course must be taken while student teaching). It is taken with the appropriate rubric related to the content area of the certification program: BIOL, CHEM, MATH, PHYS, FLNG, ENGL, HIST).

The programs for certification in secondary education are planned and supervised by the Department of Professional and Secondary Education and by the department responsible for the academic major. Students must achieve and maintain the minimum requirements for admission to and retention in the certification programs as specified by the departments and the Teacher Education Council. Specific requirements are listed in the academic subject areas.

Certification areas:

- Biology
- Chemistry
- Earth and Space Science
- English
- French
- General Science
- Mathematics
- Physics
- Social Studies
- Spanish

Dual Certification

Consult with your advisers if you are interested in obtaining dual certification (certification in any two of the above areas).

Teacher Education Program Requirements

The Commonwealth of Pennsylvania has established requirements for all candidates in teacher preparation programs. Students are required to have a 2.8 QPA, pass the PRAXIS I academic skills assessments, and complete 6 credits of Mathematics and 6 credits of English (English composition and literature) for admission into the initial teacher certification program. A 3.0 QPA is required for Pennsylvania teacher certification. Please refer to the section *The College of Education* in this catalog for specific requirements for admission into teacher education.

Professional/ Secondary Education Faculty

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Department of Early Childhood and Elementary Education
570-422-3356 www.esu.edu/eled

Course Descriptions

** Workshop courses*

PSED 150 Introduction to Teaching All Students (6)

This course provides opportunities for candidates to explore the various teaching positions at all levels, birth to 21, and examine carefully the role of the twenty-first century teacher. In light of the history of the profession, all candidates will reflect on their attitudes, knowledge base, and skills to determine whether the challenges of teaching are compatible with their goals and strengths. A 20-hour field experience is required.

PSED 161 Foundations of Education (3)

This course presents education as a unique field of academic study and also as a professional vocation with varied career opportunities. Consideration is given to the American educational enterprise in terms of the social, historical, and philosophical context, with the persistent issues being treated as they relate to the contemporary scene.

PSED 242 Educational Psychology (3)

This course is a study of the nature of the learning process, particularly in the areas of growth and development, attitudes and values, personality perception, motivation and cognition, diagnoses of pupil progress through the use of measurement and evaluation, and development of the abilities to obtain, use, and evaluate research in the areas of psychology and education. A 10-hour tutoring experience is required. Prerequisites: PSED 161 and a 2.5 QPA.

PSED 244 Adolescent Psychology (3)

This course examines cognitive, social, and personality development in adolescence, the biological, environmental, and cultural factors which contribute to adolescent behavior, and problems in adolescence: identity, vocation, education, the family, the peer group, and delinquent behavior. Prerequisites: PSED 150, 250.

PSED 250 The Psychology of Learners In Diverse Communities (3)

This course examines the way all candidates develop and learn and how social, cultural, and environmental elements affect learning and how teachers can motivate and engage all learners. A significant portion of the course will be devoted to ways that teachers can establish inclusive, equitable learning environments. A 15-hour field experience is required. Prerequisites: PSED 150, 2.50 GPA.

PSED 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

PSED 332 Measurement and Evaluation of Education (3)

This course deals with problems in the construction, use, and interpretation of test items, the development of objective standardized tests of achievement, aptitude, and personality, the development of norms, and the problems of validity and reliability. Prerequisite: PSED 242.

PSED 364 Middle School Organization (3)

This course is an introduction to the educational ideas, concepts, and possibilities inherent in both the junior high and the middle school. A thorough study of the organization and operation of each type of school is the major concept of the course. Prerequisites: PSED 161, 242.

PSED 405 Classroom Management and Discipline (3)

The course will emphasize classroom management from the viewpoint of effective teaching. Specific discipline models will be analyzed and evaluated. Students will assess their philosophies in regard to classroom management practices and discipline models. Prerequisites: PSED 161, 242.

PSED 406 Teaching of English in the Secondary Schools (3)

This course deals with teaching methods and techniques and the organization and presentation of material through the various media of communication by planning units, evaluating instruction, collecting materials and observing teaching. Prerequisites: PSED 161, 242.

PSED 412 Teaching Writing in the Secondary and Middle Schools (3)

This course will briefly survey the history of the teaching of writing in American secondary and middle schools, intensively review writing theory and research of the past two decades, and critically consider the implications of writing process theory and research for classroom practice. Also listed as ENGL 412. Prerequisites: Completion of 90 credits; successful completion of English Electronic Portfolio Junior Check Point.

PSED 416 Teaching of Foreign Language (3)

This course is designed for persons who wish to teach foreign languages in the schools, grades K-12. Students are provided a theoretical foundation for teaching techniques and opportunities are provided for lesson presentation, preparation of teaching materials, planning units, evaluating instruction, and observing teaching. Prerequisites: PSED 161, 242, Junior Standing, 6 hours of 300 and 400 level courses in target language area and FLSP or FLFR 315 Grammar and Composition.

PSED 420 Seminar in Secondary Education I: Instructional Structures and Strategies (3)

The seminar includes the study and application of lesson planning, teaching strategies and styles, assessment, and questioning skills. Seminar I includes a required field experience of 30 hours. Students must sign up one semester in advance. Prerequisites: PSED 150, 250, REED 350, and SPED 350 before or concurrently.

PSED 421 Seminar in Secondary Education II: Teaching Secondary Students In Diverse, Inclusive Classroom (3)

Students will examine the knowledge, skills, attitudes, and behaviors that are necessary to teach in a culturally and linguistically diverse and inclusive setting. Students will learn to respond to secondary students' individual needs and apply appropriate evidence-based instructional and non-academic recommendations and interventions. The course requires a 30-hour field component in an inclusive classroom and also incorporates experiences with ELLs. Prerequisites: PSED 150, 250, SPED 350, REED 350 and PSED 420 unless in PDS. Admitted to teacher Education Program and permission of instructor.

PSED 424 Teaching English Language Learners in the Diverse Classroom Setting (3)

This course provides the understanding for and appreciation of linguistic and cultural diversity, and enhances the knowledge and skills of teachers working with culturally and linguistically divers students in the classroom. The areas of emphasis include: a) the legal, historical and cultural implications of ELLs in the mainstream classroom and difference among home and school cultures, especially as they relate to language; b) a brief overview of first and second language acquisition theories; c) developmentally appropriate teaching strategies to enhance English language proficiency and academic success of ELLs; and d) Pennsylvania standards and the Pennsylvania ELL assessment systems. (This course is not part of ESL Specialist endorsement). Prerequisites: PSED 150 and PSED 250 and program admittance; ECED 232,263 and program admittance (ECED/ ELED majors).

PSED 430 Student Teaching in Secondary Education/ Middle School/Junior High School (6)

This course is part of a guided teaching experience in the secondary schools which typically consists of PSED 430 and 431 for a full

semester. This field experience is designed to provide the opportunity to demonstrate the competencies and understandings of the teaching/learning process in the middle/junior high school. Prerequisites: 1) students must meet all requirements described under the Student Teaching section, 2) students must have approval of the adviser and department chair in the major field, 3) students must have the approval of the Department of Professional and Secondary Education, and 4) students must have completed at least 24 semester hours of credit in the major field.

PSED 431 Student Teaching in Secondary Education/ Senior High School (6)

This course is part of a guided teaching experience in the secondary schools which typically consists of PSED 430 and 431 for a full semester. This field experience is designed to provide the opportunity to demonstrate the competencies and understandings of the teaching/learning process in the senior high school. Prerequisites: 1) students must meet all requirements described under the Student Teaching section, 2) students must have approval of the adviser and department chair in the major field, 3) students must have the approval of the Department of Professional and Secondary Education, and, 4) students must have completed at least 24 semester hours of credit in the major field.

PSED 436 Teaching of Mathematics in the Secondary Schools (3)

This course deals with new mathematics programs and evaluation, trends, and research in the teaching of mathematics, routine procedures in the mathematics classroom, lesson plans and teaching units, and effective techniques applied to selected topics in mathematics. Prerequisites: PSED 161, 242, and 12 credit hours in mathematics courses required for the B.S. degree.

PSED 441 Introduction to Schools without Failure (Semester hours arranged)*

This program is built on involvement, relevance, and thinking. Much time is devoted to attitudinal change, communication skills, group processes, and problem solving. The focus is on meeting the needs of the individual school. Its purpose is to assist principals and teachers to develop a positive, personal philosophy of education, to present a process for developing classroom skills, and procedures, to implement a success-oriented curriculum, and to provide ways for building constructive communication within school and between the school and the community. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: PSED 161, 242.

PSED 442 Discipline in the Classroom (Semester hours arranged)*

This program is designed for participants to take part in learning activities that will enable them to develop positive techniques for handling student behavior problems. This course is aimed at training teachers to use Reality Therapy as a tool in the classroom. It addresses one of the major concerns of the public school's classroom control and behavior change. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: PSED 161, 242.

PSED 443 Theory and Practice of Schools without Failure I (Excellence in Teaching) (Semester hours arranged)*

This course offers participants an opportunity to investigate the effects of school success and failure on the life of a child. Study of these concepts will be taken from the points of view of William Glasser, M.D., in his books Schools Without Failure, Identity Society, and Reality Therapy. Participants will be introduced to a hybrid teaching style designed to elevate teaching to maximize learning in the classroom. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: PSED 441, 442.

PSED 444 Theory and Practice of Schools without Failure II (Perception Psychology) (Semester hours arranged)*

Educators will gain experience in conducting diagnostic class meetings and in providing the educational climate necessary for self-discipline. Curriculum planning related to self-directed learning will be explored. Recent advancements in brain research, psychology, and learning theory will be presented. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: PSED 441, 442.

PSED 445 Planning for Change (Semester hours arranged)*

The goals of quality education will be analyzed as a basis for curriculum change. The relationship between affective education and cognition will be reviewed, and assessment statements will be produced through a group process. Systems for change will be developed. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: PSED 161, 242.

PSED 446 Teaching of Science in the Secondary Schools (3)

This course examines those aspects of teaching that are peculiar to the secondary science classroom, including science safety, avenues for obtaining science education resources, science-specific standards and guidelines, the nature, context and concepts of science and pedagogical methods of supporting science in the secondary classroom. This course will require a field experience of 10 hours in a secondary setting. Prerequisites: At least 3 hours of 300- level work in the content area and PSED 420 or permission of course instructor.

PSED 447 Success-Oriented Reading: Whole Language Development (Semester hours arranged)*

This course focuses on whole language development, integrating the teaching and learning of reading and writing, and increasing the use of literature in early reading programs. The course emphasis is on comprehension strategies, high quality reading materials, independent reading and opportunities for combining reading and writing activities. Prerequisites: PSED 161, 242.

PSED 448 Reality Therapy in the Classroom (Semester hours arranged)*

This workshop is designed as an advanced course for educators who desire to become increasingly proficient in the use of Reality Therapy in the classroom. It presumes an understanding of the philosophy and basic steps of Reality Therapy and some experience in trying to use it in the schools. Emphasis will be placed on acquiring additional skill in the implementation of the Reality Therapy approach in the educational environment. Since this course is also offered for graduate credit, a differentiation in requirements will be made. Prerequisites: PSED 242, 441, 442.

PSED 449 Reducing Classroom Conflict (Semester hours arranged)*

This workshop is designed to provide participants with skills in developing pathways to build strength and success in themselves and their students. It focuses on specific classroom activities that will help develop a climate for effective self-discipline and positive classroom interaction. Since this course is also offered for graduate credit, a differentiation of requirements will be made. Prerequisites: PSED 242, 442.

PSED 452 Together: Mainstreaming in the Schools (3)*

The purpose of the workshop is to cause meaningful interaction of special and regular education teachers. The interaction will enable them to review and to develop positive models for their particular schools that allow exceptional and non-exceptional students to learn together and respect and know each other. A major emphasis will be devising through group interaction, a plan for implementation of mainstreaming in the particular schools. Since this course is also offered for graduate credit, a differentiation of requirements will be made. The course is crosslisted with ELED 452 and SPED 452. Prerequisites: PSED 161, 242, upper division standing or permission of instructor.

PSED 453 Teaching and Motivating (3)*

The course provides educators with the theory and skills to motivate students to learn and to accelerate their academic achievement. Brain function and dominance will be reviewed in light of how these processes result in different student learning styles. Participants will build teaching strategies to deal with varied learning styles. Prerequisites: PSED 242; ELED 232.

PSED 456 Cooperative Learning - Learning Teams in Action (3)

The course is designed to provide skills to implement learning teams in the classroom. The course content develops a basic understanding of control theory as it applies to co-operative learning. Class experiences produce new teaching plans based on control theory and demonstrate that learning teams can provide top achievement and methodology for critical thinking and problem solving.

PSED 457 Reducing Stress in the Classroom (3)

This course explores ways to manage stress, establish realistic goals, and develop relaxation techniques so that stress is minimized in creative thinking and effective classroom management. The course will identify symptoms of job stress and worker burnout in the educational setting and present ways to effectively manage stress, establish realistic goals, and understand effective teaching styles.

PSED 458 Teaching of Social Studies in the Secondary Schools (3)

This course deals with the analysis and evaluation of current trends in curriculum, teaching methods, techniques, resources, and materials in teaching social studies in secondary schools. Stress is placed on new developments in the field and on experience in applying concepts and methods learned. Prerequisites: PSED 161, 242, and at least 6 hours of 300 level work or above.

PSED 459 Enhancing Self-Esteem (3)

This course will introduce educators to elements of self-esteem and how those elements can be used to establish an atmosphere where high self-esteem and motivation can flourish. This course takes a theory of self-esteem and translates it into practice. It also emphasizes basic human relations and interpersonal skills necessary to create a classroom environment conducive to the teaching/learning process.

PSED 472 Seminar in Secondary Education III (1)

This course is designed to provide teacher education certification candidates with the opportunity to design and conduct an action research project or an appropriate alternative research activity to enhance the required field experience in PSED 421. This experience will provide students with the opportunity to select an appropriate research model and design a research project that will enhance pedagogical practice. Prerequisites: Must be taken concurrently with Seminar II.

PSED 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis.

Psychology

College of Arts and Sciences

The Faculty of Science
Stroud Hall, Room 114A
570-422-3355.....www.esu.edu/psy

About the Programs

ESU offers both a Bachelor of Arts in Psychology degree and a Bachelor of Science in Psychology degree. Both programs prepare students for graduate study in Psychology.

The **Bachelor of Arts program** is generalized and flexible. In addition to providing a good foundation of basic knowledge about psychological processes, it allows students the flexibility to explore several of the diverse topics included in Psychology, or to concentrate their studies on several courses in one specific area.

The **Bachelor of Science program** offers three concentrations:

The **Counseling concentration** prepares students for occupations in the human services field and for graduate study in counseling psychology and related fields.

The **Research concentration** allows students to focus on the methods of the discipline, preparing for careers in behavioral research conducted by universities, businesses and government.

The **Applied concentration** is flexible, to enable students to either focus on a specific area within applied psychology or explore a broader base. Diverse topics include forensic, industrial/organizational and sports psychology.

Are you interested in...

- Problem-solving
- The mind and behavior
- Helping people

Choose Psychology at ESU

- Small advanced class sizes
- Practical field experiences
- Qualified, experienced faculty

Is Psychology a career path for me?

Career Potential

- Counseling
- Behavioral research
- Graduate school preparation

Career Settings

- Government
- Health care
- Business/Industry
- Education

More detailed career information is available from the department.

Psychology Department Objectives

The objectives of the Department of Psychology are to enrich your understanding of the behavior of humans and other animals; to have you adopt a rational, objective, experiential understanding of behavioral and psychological processes; and to develop the critical thinking abilities that will permit you to distinguish between scientific and nonscientific explanations of behavior. The department adopts a biopsychosocial view, one that explains behavior as a function of both organismic and environmental conditions. You will be introduced to the current body of knowledge in psychology; its data, methods, and theoretical formulations in the principle fields.

Faculty

Professors:

Paul Bartoli (pbartoli@po-box.esu.edu)

Anthony Drago, Chair (tdrago@po-box.esu.edu)

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Donna Hodge (dhodge@po-box.esu.edu)

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Richard Wesp (rkwesp@po-box.esu.edu)

Associate Professors:

Renee Boburka (rboburka@po-box.esu.edu)

Bonnie Green (bgreen@po-box.esu.edu)

Jyh-Hann (John) Chang (jchang@po-box.esu.edu)

Assistant Professor:

Irina Khusid-Bromgard (ikhusid@po-box.esu.edu)

Student Organizations

Psychology Association
An organization for students who have a special interest in the fields of psychology, the association gives students the opportunity to broaden their educational experience in psychology through individual and group research and field trips. All students enrolled in a psychology curriculum or concentration, as well as other interested students, are invited to join.

Psi Chi National Honor Society
This national organization encourages, stimulates and maintains excellence in scholarship and advances the science of psychology. Membership is open to students making the study of psychology one of their major interests and who meet minimum qualifications. Membership is by invitation and based on a preliminary review of academic records. Applicants are encouraged to attend ESU chapter meetings and participate in outside activities. Near the end of each semester, applications and participation are reviewed and current members vote on the applicants.

Bachelor of Arts in Psychology

34-35 semester hours

- **Required major courses:** PSY 101, 201, 202, 311, 321, 410; one of 203, 302, or 401; and nine additional semester hours in Psychology.
- **Corequisite course:** BIOL 111
- **Other Requirements**: C or better in all Psychology courses (All Psychology used for this major). At last fifteen credits of the Psychology required for this program including all 300 and 400 level Psychology courses, must be done at East Stroudsburg University.
- Also, please read university requirements found in this catalog.

This degree program is generalized and flexible. In addition to providing a good foundation of basic knowledge about psychological processes, it allows students the flexibility to explore several of the diverse topics in Psychology or concentrate several courses in one specific area.

Program Curriculum Plan

(*Subject to change by the university without notice*)

Freshman Year

Fall

PSY 100 GE: General Psychology	3
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSY 201: Quantitative Psychology	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PSY 202: Experimental Psychology	3
PSY 321: Theories of Personality	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

Psychology Specialty Course	3
Psychology Specialty Course	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

Psychology Elective	3
Psychology Elective	3
Corequisite (BIOL 105, 111 or 114 or CHEM 115)	3
Upper Division Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

Psychology Elective	3
Psychology Elective	3
Psychology Elective	3
Upper Division Elective	3
Upper Division Elective	3
Subtotal	**14**

Senior Year

Fall

PSY 311: Physiological Psychology	4
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Subtotal	**16**

Spring

PSY 410: Perspectives in Psychology	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Subtotal	**12**
Total Credits	**120**

Bachelor of Science in Psychology - Concentration: Applied Psychology

40-43 semester hours

- **Required major courses:** PSY 100 or 101; 201, 202, 241, 321, and any three additional non-general education psychology courses (any three except PSY 220, 222, 225). Select one course from each of the two groups:
- **Biological based**: PSY 301, 311, 312, or 326.
- **Socio-cultural**: PSY 292, 294, 305, 306, or 320
- **Required Integrative course:** Select 9 credits from the following: PSY 401, 409, 410, 461, 452, or 486.
- Each course within the major can only be counted for one requirement.
- All of the 300 and 400 level Psychology courses required for this program must be taken at East Stroudsburg University. No more then 15 credits in the major will be accepted for transfer.
- All required courses must be passed with a "C" or higher.
- Please read university requirements found in this catalog.

A Bachelor of Science in Psychology with an Applied Concentration is intentionally designed to be flexible to enable students working with their advisers to either focus on a specific area within applied psychology or explore a broad base in psychology.

In addition to providing a strong foundation, the Applied Concentration permits students to explore or specialize in diverse topics including forensic, industrial/organizational, and sports psychology. This concentration is well suited for students who have a dual major.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSY 100 GE: General Psychology	3
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSY 201: Quantitative Psychology	3
PSY 321: Theories of Personality	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PSY 241: Measurement and Evaluation	3
Psychology Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSY 202: Experimental Psychology	3
Psychology Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

Psychology - Biological Based	4
Psychology Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

Psychology – Socio-cultural Based	3
Psychology Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Subtotal	**15**

Senior Year

Fall

PSY 410: Perspectives in Psychology	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Fitness Elective	1
Subtotal	**16**

Spring

PSY 409: Research in Psychology	3
PSY 486: Field Experience	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Subtotal	**15**
Total Credits	**120**

Bachelor of Science in Psychology - Concentration: Counseling

40-42 semester hours

- **Required major courses:** PSY 100 or 101; 201, 202, 241, 321, 351, 451, and any one additional non-general education psychology course (any three except PSY 220, 222, 225). Select one course from each of the two groups:
- **Biological based**: PSY 301, 311, 312, or 326.
- **Socio-cultural:** PSY 292, 294, 305, 306, or 320
- **Required Integrative course:** PSY 461, 452, and 484.
- Each course within the major can only be counted for one requirement.
- All of the 300 and 400 level Psychology courses required for this program must be taken at East Stroudsburg University. No more then 15 credits in the major will be accepted for transfer.
- All required courses must be passed with a "C" or higher.
- Please read university requirements found in this catalog.

A Bachelor of Science in Psychology with a Counseling Concentration prepares students for occupations in the human services field and for graduate study in counseling psychology and related fields. The unique skill set developed is an excellent preparation for graduate school and for entry level careers in government agencies, private and public healthcare settings, business and industry, and educational settings.

A wide variety of career opportunities are available under the direct supervision of licensed professionals such as psychologists, psychiatrists, professional counselors, and marriage and family therapists.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSY 100 GE: General Psychology	3
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSY 201: Quantitative Psychology	3
PSY 321: Theories of Personality	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PSY 241: Measurement and Evaluation	3
PSY 351: Abnormal Psychology	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSY 202: Experimental Psychology	3
Psychology – Socio-cultural Based	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

PSY 451: Introduction to Counseling	3
Psychology – Biological Based	3
Psychology or Upper Division Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

PSY 452: Group Processes	3
Psychology or Upper Division Elective	4
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Subtotal	**16**

Senior Year

Fall

PSY 461: Test and Measures	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Subtotal	**16**

Spring

PSY 484: Mental Health Practice	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Subtotal	**12**
Total Credits	**120**

Bachelor of Science in Psychology - Concentration: Research

40-43 semester hours

- **Required major courses:** PSY 100 or 101, 201, 202, 241, 321, and any additional non-general education psychology course(any three except PSY 220, 222, 225).
- **Biological based:** Select two course; PSY 301, 311, 312, or 326.

Select one course from each of the following groups:

- **Socio-cultural:** PSY 292, 294, 305, 306, or 320
- **Lab course:** PSY 301, 304, 311, 313, or 402
- **Required Integrative course:** PSY 401, 409, and 410.
- Each course within the major can only be counted for one requirement.
- All of the 300 and 400 level Psychology courses required for this program must be taken at East Stroudsburg University. No more then 15 credits in the major will be accepted for transfer.
- All required courses must be passed with a "C" or higher.
- Please read university requirements found in this catalog.

A Bachelor of Science in Psychology with a Research Concentration allows students to focus on the scientific theories and methods of psychology. The Research Concentration enables students to prepare for graduate school and careers in psychological research conducted by universities, businesses, and government. Students work with their advisers when deciding which courses best meet their educational and professional goals.

The department will accept a maximum of 15 transfer credits in the major only if the credits were earned within eight years prior to admission to ESU. No credits can be transferred into the major as equivalents of junior-senior level courses.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

PSY 100 GE: General Psychology	3
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

PSY 201: Quantitative Psychology	3
PSY 321: Theories of Personality	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

PSY 241: Measurement and Evaluation	3
Psychology Socio-cultural Based	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

PSY 202: Experimental Psychology	3
Psychology – Biological Based	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

Psychology - Biological Based	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	1
PSY 401: History of Psychology	3
General Education Elective	3
Subtotal	**13**

Spring

Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Psychology or Upper Division Elective	3
Subtotal	**15**

Senior Year

Fall

PSY 410: Perspectives in Psychology	3
Psychology – Integrative Course	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Subtotal	**15**

Spring

PSY 409: Research in Psychology	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Psychology or Upper Division Electives	3
Subtotal	**15**
Total Credits	**120**

Psychology Minor

18 semester hours

- **Required courses** - PSY 101 or 100, 321; either 222 or 351; one of 302, 311, 402; two of 203, 220, 225, 271, 291, 294, 320.

This program is designed for majors in related disciplines who desire to complement their academic studies and/or career preparation with extended study of psychology. Course selections shall be made in conjunction with a psychology faculty member's consultation and approval.

At least one half of the credit hours required for this program must be completed at East Stroudsburg University. In order to receive a minor in psychology, a student must receive a grade of "A," "B" or "C" in all courses which count as part of the minor.

Course Descriptions

PSY 100 GE: General Psychology (3)

This course includes an introduction to the science of behavior and mental life, a bio-social view of man and other animals, and a survey of its methods, theories, history, and knowledge of the role of organismic, environmental, and social factors in behavioral and psychological processes.

PSY 101 GE: Introduction to Psychology (3)

This course provides the student with an understanding of contemporary psychological concepts, theories, methods, issues, and problems in the context of the classic questions of psychology. This course is designed primarily for students majoring in Psychology and closely related fields of study.

PSY 105 GE: Infant and Early Childhood Developmental Psychology (3)

This class will introduce students to historical and contemporary theories and models in child developmental psychology. Central to this course will be the application of these theories to maximize healthy development in infants and children.

PSY 201 Quantitative Psychology (3)

This course will cover standard quantitative methods in psychology used for understanding mental processes and behavior. This will include an introduction to research and measurement issues as they relate to psychology. Students will also learn how to select, calculate, and interpret appropriate descriptive and inferential statistics for the understanding of psychological phenomenon. Prerequisite: PSY 100 or 101.

PSY 202 Experimental Psychology (3)

This course is an introduction to the philosophy and research methods of behavioral science with particular emphasis upon the experimental method, experimental analysis, and research of traditional and contemporary issues. Prerequisites: PSY 101, 201.

PSY 203 Psychology of Motivation (3)

This course is an introduction to the psychological literature concerning motivation as viewed through major theoretical systems. There will be an examination of the motivational forces underlying human and animal behavior. Basic motivational concepts will be surveyed with an attempt to represent various areas of motivational research. Prerequisite: PSY 100 or 101.

PSY 220 GE: Social Psychology (3)

This course provides an introductory survey of the field of social psychology. Group processes, interpersonal attraction, attitude theory, persuasion, prejudice, aggression, conflict, and helping behaviors are among the topics considered. Prerequisites: PSY 100 or 101.

PSY 222 GE: Psychology of Adjustment (3)

This course is a functional approach to the problem of how humans acquire their distinctive ways of adjusting, favorably or unfavorably, to the total environment. It includes adjustment as a biosocial process, varieties of adjustive behavior, personality, and types of therapy and applications. Prerequisite: PSY 100 or 101.

PSY 225 GE: Lifespan Developmental Psychology (3)

Lifespan developmental psychology is the study of how and why people change over time as well as how and why they remain the same from conception through old age. More specifically this course takes an interdisciplinary look at development from the social science fields of anthropology, sociology, and psychology and from the natural science discipline of biology. This broader approach provides insights into three areas of development: the physical domain, the cognitive domain, and the psychosocial domain. Prerequisite: PSY 100 or 101.

PSY 231 Industrial Psychology (3)

This course deals with psychological information and theories applied to business and industrial settings. Focus is upon leadership, motivation, training, and personnel selection and placement. Prerequisite: PSY 100 or 101 and PSY 201.

PSY 241 Measurement and Evaluation in Psychology (3)

This course covers a brief history of testing and assessment. The focus is on basic procedures necessary for the quantification of measured characteristics and includes a study of norms reliability and validity in the development of standardized tests. Prerequisites: PSY 101, 201.

PSY 250 Fundamentals of Psychology (3)

This course will provide a necessary foundation for students majoring in psychology. This foundation will include an overview of basic history, methods of communication, and careers in psychology. Prerequisites: PSY 100 or 101, prerequisite or concurrently PSY 201.

PSY 251 Psychological Disorders (3)

This course is designed to introduce students to the major classification of psychological disorders in accordance with the Diagnostic and Statistical Manual. The course will emphasize the symptomatology and prevailing treatment modalities that are characterized with each disorder. Prerequisites: PSY 100 or 101.

PSY 271 CJA: Forensic Psychology (3)

This course introduces the student to the relationship between the field of psychology and the criminal justice system in the U.S. The approach is interdisciplinary in nature and intended for those interested in social science, behavioral science, law, and criminal justice, as well as practitioners in the criminal justice system. Prerequisite: PSY 100 or 101.

PSY 290 Special Topics (Semester hours arranged)

These courses are designed to meet the specific needs of groups of students and are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

PSY 291 Human Sexual Behavior (3)

This course examines the role of sexual behavior and attitudes in interpersonal relations, and individual psychodynamics in the attainment of full human potential. It includes an analysis of atypical sexual behavior from psychoanalytic, humanistic, social, cognitive and behavioristic viewpoints; Psychotherapy of/and human sexual dysfunction. Prerequisite: PSY 100 or 101.

PSY 292 Psychology of Women (3)

This course will focus on critical research issues concerning the female experience from birth to old age. It will examine the changing roles of women in contemporary society in addition to myths and stereotypes concerning women. Prerequisite: PSY 100 or 101.

PSY 294 Psychology of Minority Groups (3)

A study of the historical, developmental, cultural, and environmental influences on the attitudes, behavior and psychological processes of major minority groups in America. Specific groups to be highlighted in this course include: Native Americans, African Americans, Asian Americans, Latin Americans, Women, and Individuals With Disabilities. Specific topics to be discussed are: sexual preferences, the nature of prejudice, discrimination, and oppression. Prerequisite: PSY 100 or 101.

PSY 301 Sensation and Perception (3)

This course is a study of the structure and function of receptor systems, their role in phenomenological experience and perception, and how such systems contribute to human's orientation in and knowledge of the environment. Prerequisite: PSY 101.

PSY 302 Theories of Learning (3)

This course is a survey and critical analysis of theoretical formulations of learning processes, and their implications in child rearing, education and the mental health setting. Prerequisite: PSY 101.

PSY 304 Empirical Foundations of Learning (4)

The course offers an upper level analysis, discussion, and laboratory experiences concerning classical and contemporary issues and topics in learning and behavior control. Operant vs. respondent

conditioning, biofeedback, verbal learning, motor skills learning, learning vs. performances, trial and error vs. insight, reinforcement vs. feedback, punishment and aversive control, memory, and knowledge are considered. Prerequisite: PSY 100 or 101 and 201.

PSY 305 Cross-Cultural Psychology (3)

This course focuses on cross-cultural applicability of psychological principles. Emphasis will be made on identifying similarities and differences in human behavior across cultures around the world. Approaches to cross-cultural research in psychology and psychological effects of acculturation, ethnocentricism, culture shock, and cultural-relativism will be explored. Prerequisites: PSY 100 or 101 and any 200 level psychology course.

PSY 306 A Cross-Cultural Comparison of Behavioral Therapy (3)

This course is designed to examine the influences of culture on psychological problems, interpretation of the problems, and therapy used to address the problems. Students will learn basic principles of behavior therapy, and then observe and apply these principles. Students will study major theories of cross-cultural psychology and consider the impact of culture on behavior and use those frameworks to actively compare the differences in cultures as they relate to attitudes and practices related to therapy. Prerequisites: PSY 321 and completion of at least 12 credit hours in Psychology.

PSY 311 Physiological Psychology (4)

This course is a study of the relations of behavior of organisms to their physiological processes. In addition to the characteristic modes of functioning and the complexity of the human nervous system, it includes a study of how such diverse events as ontogenetic development, brain lesions, stress, and sensory deprivation or enrichment affect behavior. A series of laboratory exercises is employed in order to aid the student in developing a more thorough understanding of the field. Prerequisite: PSY 101.

PSY 312 Clinical Psychopharamacology (3)

This course is designed to provide fundamental knowledge of how medications are used to treat a variety of psychological disorders and some neurodegenerative diseases. Emphasis is placed on how therapeutic drugs act within the nervous system, clinical studies examining the efficacy of these drugs, how these drugs are used in combination with psychotherapy, and the potential side effects of these drugs. Prerequisites: PSY 100 or 101, 321, 351; BIOL 111.

PSY 313 Comparative Psychology (4)

This course offers analysis, discussion, and laboratory experiences in animal and human behavior. It places human behavior in phylogenetic perspective. The behaviors of various animals are studied with emphasis on the behavioral similarities and differences among animals and with respect to humans to gain an understanding of their behavioral roots and capacities. Laboratory exercises will consist of behavioral observations and follow-up reports of animal behaviors in semi-natural and laboratory environments. Prerequisite: PSY 100 or 101 and 201.

PSY 320 Social Psychology: Theories, Research and Application (3)

This is designed to provide an in-depth examination of selected areas within social psychology. Topics may include conformity, social cognition, persuasion, self-justification, human aggression, interpersonal relationships, and prejudice. Emphasis is placed on the understanding, development, and application of social psychological research. Prerequisite: PSY 100 or 101 or 220 and PSY 201.

PSY 321 Theories of Personality (3)

This course focuses on a discussion of theories that have contributed significantly to current concepts of personality with emphasis on the diversity of views and techniques (from psychoanalysis to cognitive behaviorism) that characterize the field. The relationship of personality theory to assumptions about the nature of man will be noted. Prerequisite: PSY 100 or 101.

PSY 326 Health Psychology and Behavioral Medicine (3)

This course focuses on the relationship between psychology and the field of Behavioral Medicine. It involves an in-depth study of how psychological factors influence physical illness, and how to prevent these illnesses from a psychological perspective. Specifically, the course considers the process of lessening the course of certain physical illnesses by applying behavioral, cognitive, and social psychological principles. Seeking health care and adhering to medical advice will also be discussed. Prerequisites: PSY 100 or 101, and PSY 321.

PSY 351 Abnormal Psychology (3)

This course reviews basic principles of motivation, learning, and development as they are related to disorganized behavior, physiological, sociological, and psychological factors in the development of disorganized personalities, the etiology and symptomatology of the major categories of neurosis, psychosis, personality disorders, and organic brain disorders, and methods of treatment and prevention. Prerequisites: PSY 101, 321.

PSY 361 Child Psychopathology (3)

The purpose of this course is to introduce the student to the basic concepts of Child Psychopathology, the scientific and scholarly study of child and adolescent emotional and behavioral disorders. The course will include a discussion of the etiology, symptomotology, treatment, and prevention of childhood disorders. The distinctions between child and adult pathology and current research trends will also be emphasized. Prerequisites: PSY 100 or 101, 321, and 351.

PSY 377 Psychology of Adult and Aging (3)

This course is designed to enhance the students understanding of various topics that are central to adult development and aging. Lectures and exercises encourage the students to apply learning to everyday life situations. Students will identify, compare and contrast, and critically evaluate major themes in the research of human development (e.g. rationalism, empiricism, maturationism, and constructivism). The course structure stresses diversity of experience and immediate practical application of the knowledge. Prerequisites: PSY 100 and one additional 3 credit psychology course.

PSY 401 History of Psychology (3)

This course considers the trends and controversial issues in psychology related to forces in a general culture and examines the philosophical and theoretical views of eminent psychologists and the influence of physical science on methodology in behavioral science. Prerequisites: PSY 101, 9 additional major credits.

PSY 402 Cognitive Processes (3)

This course is a study of complex mental processes and explanatory models of these processes, the relation between affective and associative processes, thinking, problem solving, decision-making, and creativity. Prerequisites: PSY 101, 201, 202.

PSY 405 Infant, Child, and Adolescent Psychology (3)

Students will study historical and contemporary theoretical and research issues in human development. In addition to covering the

challenges in developmental research and measurement design, the course will cover major systems and themes in the science of human development. Prerequisites: PSY 100 or PSY 101, 201, 241, 202 (or concurrent enrollment in PSY 202).

PSY 409 Research in Psychology (Semester hours arranged)

This course is designed to broaden a student's background in psychological topics through in-depth reading or research in a particular area. It is open to qualified students who wish to contribute an individual research project or theoretical paper under the supervision of a staff member. Subject matter varies depending upon student and faculty interest. May be repeated to a total maximum of six credits. Prerequisites: PSY 101, 201, 202, 9 additional credits in psychology (18 total).

PSY 410 Perspectives in Psychology (3)

This course presents the Psychology major with an opportunity to synthesize the knowledge acquired during the undergraduate course of study. Prerequisites: PSY 100 or 101, 201, 202, permission of instructor.

PSY 451 Introduction to Counseling (3)

An overview of the field of counseling; counseling theory, techniques, and issues are discussed. Emphasis is placed on individuals and groups whose problems of choice, decision, and adjustment fall within the normal range. Educational and emotional and social counseling are examined in relation to the role of the counselor in the community. Prerequisites: PSY 101, 321, 351.

PSY 452 Group Processes in Counseling (3)

This course presents the principles and techniques of groups used in counseling. The student will survey the various group models applicable to a variety of populations and settings as well as the most recent, relevant research on group processes. The course includes didactic and experiential components. Prerequisites: Advanced standing of 90 credits, PSY 451.

PSY 461 Tests and Measures (3)

This is an advanced integrative course in the theory, problems, methods, and content of psychological testing. The course will cover basic concepts of test development, construction, administration, scoring, and interpretation. Students will work directly with Intelligence tests (e.g. Wechsler Tests), Personality Tests, (Minnesota Multiphasic Personality Inventory, Sixteen Personality Factors), projective tests, and other clinical tests (e.g., Beck inventories, Mental Status exam). Prerequisites: PSY 201 and 451.

PSY 484 Mental Health Worker Practice and Skills (3)

This course is required of, and restricted to, students who are enrolled in the Mental Health Worker concentration (BS in psychology). Students are assigned to an agency appropriate to the program and their specific interests and spend a minimum of 120 hours of supervised experience in addition to meeting in a group seminar. The seminar will concentrate on day-to-day problems with which students deal in their placement and current issues and ethics in the mental health professions. (May be repeated for maximum of 12 credits.) Prerequisites: PSY 451, 452.

PSY 485 Independent Study (Semester hours arranged)

This experience is taken upon the initiative of a student who seeks to study with a knowledgeable faculty member in order to deepen a specific interest in a particular academic discipline. Independent study is a process through which a student either sharply increases his/her already advanced knowledge of a subject matter or increases his/her appreciation about an academic discipline that is correlative with the student's advanced knowledge of a subject. The proposed independent study must be submitted to the department for approval. The faculty member supervising the independent study must provide a minimum of five (5) hours of time per credit hour upon request of the student. Prerequisites: PSY 101, 60 credits, permission of instructor.

PSY 486 Field Experiences and Internship (Semester hours arranged)

This course is designed to provide students with field experience and working knowledge in the psychological area of their choosing (e.g., counseling, criminal justice, school psychology, industrial/organizational psychology). Placement may occur in a variety of locations, including hospitals, social service agencies, schools, legal firms, human resources offices, and marketing companies. A maximum of twelve credits may be earned through the program. Prerequisites: 30 credits in psychology, permission of instructor.

Reading

College of Education

Stroud Hall Room 112

570-422-3416.....www.esu.edu/reed

About the Program

The Reading Department offers courses in reading education that are required by the departments of Early Childhood and Elementary Education, Professional and Secondary Education, and Special Education.

All students are required to maintain a cumulative and major average as specified in Pennsylvania law to take teacher education classes. Please refer to the section The College of Education in this catalog for specific requirements.

All teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Department faculty

Professor:
Maureen McLaughlin, chair (mmclaughlin@po-box.esu.edu)

Associate Professors:
Mary Beth Allen (mballen@po-box.esu.edu)

Rhonda Sutton (rhonda.sutton@po-box.esu.edu)

Assistant Professor:
Shawn Coskey (scoskey@po-box.esu.edu)

Course Descriptions

REED 090 Reading Skills (3)

This course will diagnose and correct student deficiencies in the basic reading and study skills which are essential for successful completion of academic course work. Student deficiencies will be diagnosed through standardized and informal testing and will be corrected by using a variety of group and individualized teaching techniques.

REED 191 Developmental Reading (3)

The needs and progress of college students are evaluated in the development of their reading ability. Comprehension skills, especially understanding reasoning processes expressed in written language and study skills, are emphasized. Open to all students.

REED 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are courses offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

REED 311 Teaching Reading in the Elementary School (3)

This is a foundational course for the teaching of reading. It includes a research-based theoretical framework and practical ideas for teaching reading. This course is a prerequisite for REED 315 and is not open to Elementary Education majors. Prerequisite: ELED 132.

REED 312 Emergent Literacy (3)

This course focuses on teaching phonemic awareness, phonics, fluency, vocabulary, and comprehension to emergent readers. It features a research-based theoretical framework and practical ideas for developing literacy from birth through the primary grades. Prerequisite: ELED 132.

REED 313 Foundations of Reading Instruction (6)

This course is designed to prepare students to effectively teach literacy. Topics emphasized include phonemic awareness, phonics, fluency, vocabulary, comprehension, and assessment. Weekly field experiences in Professional Development Schools emphasize the integration of course content and best practice. Required course for Elementary Education Majors. Prerequisite: ELED 264.

REED 314 Foundations of Reading for the Developing Child (3)

This is a foundational course for the teaching of reading designed to prepare candidates to effectively teach literacy in grades 1-4. It includes a research-based theoretical framework and practical ideas for teaching reading. Topics emphasized include phonemic awareness, phonics, fluency, vocabulary, comprehension, and assessment. Prerequisite: ECED 232, 262, Department Admittance.

REED 315 Scaffolding Language and Literacy Development for Students with Disabilities (3)

This course, which is cross-listed as SPED 315, prepares pre-service special education teachers to provide effective literacy instruction to students with mild to severe language, reading, and writing disabilities. The course emphasizes research-based assessment and instructional techniques that scaffold the development of language and literacy skills for students with disabilities. IEP elements related to assessing skills, planning goals, and monitoring progress for students with language and literacy disabilities, elements related to their Individualized Education Plans (IEPs) are featured. This course is required for students seeking certification in Special Education. Prerequisites: SPED: All required 100 and 200 level SPED courses; PREK-4th Program: REED 314; Middle School Program: REED 340 and prior or concurrent enrollment in REED 350; Professional and Secondary Education Program: Prior or concurrent enrollment in REED 350; Speech-Language Pathology: SPPA 105.

REED 321 Teaching of Reading in the Secondary School (3)

In this course, students learn how to integrate reading into their content area teaching. Emphasis is placed on critical thinking strategies, teaching from a constructivist perspective, and becoming knowledgeable about a variety of types of text. Prerequisite: PSED 161.

REED 331 The Selection and Evaluation of Reading Materials (3)

This course focuses on the examination and rationale for current techniques and materials for teaching reading to students capable of utilizing different modalities. Both developmental and corrective classroom reading programs for the elementary and middle school will be considered. Prerequisites: REED 211, or 313, or 321.

REED 332 Content Reading in the Elementary School (3)

Students learn and practice the teaching of those reading skills which elementary school children need for successful reading in subject matter areas. Prerequisites: REED 211, or 313, or 321.

REED 340 Teaching Reading in the Middle School (3)

This is a foundational course for the teaching of reading. It includes a research-based theoretical framework and practical ideas for teaching reading to diverse students, including English Language Learners (ELL). This course is designed for those majoring in middle school certification. Prerequisites: PSED 150, 250, Concurrent enrollment in ELED 350.

REED 350 Teaching Reading to Communities of Diverse Learners (3)

This course provides opportunities for pre-service teachers to learn how to respond to the literacy needs of diverse learners in all content areas. There is a focus on formal and informal assessments and appropriate instructional techniques. Pre-service teachers become knowledgeable about literacy issues associated with specific content areas using a variety of types and levels of text. Prerequisites: PSED 150, 250.

REED 430 Teaching Reading through Young Adult Literature (3)

Participants in the course will examine the engagement of young adults in the reading process. Among the literature-based topics to be addressed will be teaching reading through thematic units, the shared stages of reading and writing, literature-response methods, and developing reading strategies through a variety of literary genres. Prerequisites: REED 211, or 313 or 321; ELED 232.

REED 433 Literacy: Techniques for Assessment (3)

The emphasis of this course reflects the current knowledge base for the ongoing process of formative and summative evaluations. Data gathering, data analysis, and data display are surveyed and demonstrated. Prerequisites: REED 211, or 313 or 321; ELED 232.

REED 434 Field Experience in Reading (3)

This course is a three-week field experience under the guidance of a Reading Specialist in the public schools. The student will 1) observe him/her in all phases of his/her work, 2) following observation, assist the Reading Specialist, and 3) gradually assume teaching responsibilities for the various instructional groups as the Reading Specialist may deem feasible. The program will be supervised by a member of the Reading Department. The course is accepted to fulfill an area of concentration (Reading) requirement. Prerequisites: REED 211 or 313; ELED 232.

REED 447 Success-Oriented Reading: Ideas into Action (Semester hours arranged)

The course provides opportunities for teachers to explore the reading process from a variety of current viewpoints and to help the participants develop their own personal classroom teaching programs to put these ideas into practice. The course is designed to stimulate new thinking, to have participants experience activities that can be used with students, and to give participants confidence in creating personalized reading activities and materials for their own students. Prerequisites: ELED/PSED 490 or ELED/PSED 491. Since this course is also offered for graduate credit, a differentiation of requirements may be made. This course is also listed as ELED/PSED 447.

REED 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis.

REED 486 Field Experiences and Internship (Semester hours arranged)

Recreation and Leisure Services Management

College of Business and Management

The Faculty of Recreation Services Management
DeNike Hall Room 231
570-422-3305.....www.esu.edu/rlsm

About the Program

The Department of Recreation and Leisure Services Management (RLSM) can prepare you for a variety of career paths in recreation and park service settings. Our program was established in 1978. National accreditation was received in 1983 from the National Recreation and Park Association (NRPA) and has been maintained since that time.

The mission of the bachelor of science degree program in Recreation and Leisure Services Management is to provide students with knowledge and skills necessary to enter the workforce. The program provides students options that are determined by their interest and goals. An advisory board, comprised of expert practitioners in the Pocono region, offers input to the faculty. Their perspectives enable the faculty to be responsive to the changing needs of the work force.

Accreditation
The Recreation degree program is accredited by Council of Accreditation for Park, Recreation, Tourism and related Professions (COAPRT).

Students graduating from this program are immediately eligible to sit for the examination to become a Certified Park and Recreation Professional (CPRP).

Professional Organizations
Professional organizations such as the NRPA and the Pennsylvania Recreation and Park Society (PRPS) offer information on career opportunities. More specific information on the career option of commercial recreation is available from the Resort and Commercial Recreation Association (RCRA). If you are interested in an outdoor recreation career option, another source of career information is the National Association for Interpretation (NAI). If you think a career as a recreation therapist might be for you, information can be obtained from the National Council on Therapeutic Recreation Certification (NCTRC) and the American Therapeutic Recreation Association (ATRA).

Transfer Students
Many students transfer from community colleges and other universities. We welcome your inquiries. More information about credit and course transfers is available from the Office of Admissions, 877-230-5547.

Are you interested in...
- Providing meaningful recreation experiences
- Coordinating and planning events
- Organizing and directing an organization's resources
- Facilitating team building opportunities
- Motivating others to improve their quality of life
- A dynamic work environment that has you doing many different tasks each day

Choose Recreation and Leisure Services Management at ESU
- Small class size
- Nationally accredited program
- Practical field experiences, including internship placement
- Qualified, experienced faculty
- Several career specializations
- Frequent faculty interactions, promoting professional developments

Is Recreation and Leisure Services Management a career path for me?

Career Potential
- Event Planner
- Park Ranger/Park Manager
- Resort Recreation Director
- Recreation Therapist
- Community Recreation Director

Career Settings
- Municipal, state, and federal government agencies
- Community organizations
- Environmental education centers
- Youth camps
- Resorts
- Ski areas
- Theme parks
- Rehabilitation centers
- Hospitals
- Long-term care facilities

More detailed career information is available from the department.

Bachelor of Science in Recreation and Leisure Services Management

48 semester hours
- **Required major courses:** RECR 150, 151, 260, 270, 281, 350, 351, 450, 452, 486; 3 of the 4 practicum courses - 390, 391, 392, 393; 6 additional semester hours in recreation.
- **Corequisite courses:** CMST 111 or 253; ENGL 203; HLTH 240; CPSC 100.
- **Required quality point average:** 2.25 or greater for juniors and seniors.
- **Note:** The required internship (RECR 486) may be completed during the summer sessions following the junior or senior year of study or during fall or spring of the senior year, upon approval by the department
- Please see the university requirements in this catalog.

Suggested sequence of required courses:

Freshman Year:	RECR 150; 260
Sophomore Year:	RECR 151; 270; 281
Junior Year:	RECR 350; 351; Practicums (2); RECR Electives (2); RECR 452
Senior Year:	RECR 450; Practicum (1); 486

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

RECR 150: Introduction to Recreation and Leisure Services	3
General Education Electives	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

RECR 260: Introduction to Therapeutic Recreation	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

RECR 151: Recreation Leadership	3
RECR 270: Recreation in Commercial Settings	3
General Education Elective	3
General Education Elective	3
General Education Elective	4
Subtotal	**16**

Spring

RECR 281: Outdoor Recreation and Park Management	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
General Education Elective	4
Subtotal	**16**

Junior Year

Fall

RECR 351: Leisure Services Management	3
Recreation Elective	3
Recreation Practicum	1
General Education Elective	3
Health Emergencies	3
Free Elective	3
Subtotal	**16**

Spring

RECR 350: Special Event and Program Planning	3
RECR 452: Research Methods	3
Recreation Elective	3
Recreation Practicum	1
Free Electives	3
Free Elective	3
Subtotal	**16**

Senior Year

Fall

RECR 450: Recreation Areas and Facilities	3
Recreation Practicum	1
Free Electives	10
Subtotal	**14**

Spring

RECR 486: Internship	12
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3305 or visit DeNike Hall Room 231 570-422-3305 www.esu.edu/rlsm

Faculty

Professors:

S. Elaine Rogers (erogers@esu.edu)

Bradford Seid (bseid@esu.edu)

Associate Professor:

Angela Vauter, Chair (avauter@esu.edu)

Course Descriptions

RECR 150 Introduction to Recreation and Leisure Services (3)

This course provides an introduction to the study of recreation and leisure as a phenomenon of human social experience. The course presents an overview of the delivery of recreation and leisure services in a variety of settings for all populations.

RECR 151 Recreation Leadership (3)

This course analyzes the leadership role in group settings, group process, group dynamics, leadership styles, and interpersonal communication. Incorporated into this course is an activity lab which enables students to experience the role of leading groups of different ages and skill levels.

RECR 241 WS: Leisure and Gender (3)

This course is an introduction to issues and questions about women and men and their leisure. The student will examine the differences and similarities between women and men concerning their leisure interests, needs, and perceptions. Topics will include a comparison of women's and men's leisure historically, gender-role socialization during lifespan development, participation in leisure pursuits by gender, gender-based constraints on leisure, and problems and issues faced by leisure professionals because of gender. Prerequisite: Sophomore standing.

RECR 260 Recreation Services for Persons with Disabilities (3)

This course is an in-depth analysis of societal attitudes, stigma of disability, and the evolution of therapeutic recreation services. The impact of legislation, inclusive programming, and models of service are analyzed. The recreation abilities and needs of persons with a variety of disabilities are evaluated. Prerequisites: RECR 150 and 151.

RECR 261 Leisure and Aging (3)

This course analyzes the delivery of leisure services to individuals over 60. Psychosocial, physical, and cognitive changes as they relate to the aging process and one's leisure are investigated. The implications of changes in demographics, lifespan, healthcare delivery, and public policy are explored. Therapeutic recreation practice in long term care is examined.

RECR 270 Recreation in Commercial Settings (3)

This course is an analysis of tourist-related industries with particular attention focused on managerial tasks and business skills required in delivering commercial leisure services to the consumer. This course will also focus upon different types of commercial recreation enterprises such as health clubs, ski areas, and theme parks. Trends and issues pertinent to the operation and management of these firms will also be examined.Prerequisites: RECR 150 and 151.

RECR 280 Outdoor/Environmental Education (3)

This course provides a survey of the history, philosophy, current status, and future trends in the outdoor education and environmental education movements. The student will acquire skills in leadership of a variety of outdoor/environmental education activities and will visit environmental education centers and programs in the regional area. Prerequisite: BIOL 104.

RECR 281 Outdoor Recreation and Park Management (3)

This course presents advanced study in the history, current status, and management of outdoor recreation opportunities and resources. It examines the relationship of outdoor recreation and natural resources, especially the environmental impact of recreational pursuits on the resource base.

RECR 290 Special Topics (Semester hours arranged.)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

RECR 350 Special Event and Program Planning (3)

This class is designed to enable the student to plan and implement a variety of recreation programs and special events. Particular attention will be focused on the process of program planning, marketing, risk management, and pricing as they relate to the offering of leisure services and special events. Prerequisites: RECR 150 and 151.

RECR 351 Leisure Services Management (3)

This is a survey course of organizational theories and concepts, procedures, and practices utilized in the delivery of leisure services. Emphasis is on the management role, legal issues, human resources, supervision, and fiscal responsibility. Prerequisites: RECR 150 and 151 and junior standing.

RECR 361 Clinical Aspects of Therapeutic Recreation (3)

The focus of this course is to prepare future practitioners to deliver therapeutic recreation services in clinical settings. Medical terminology, assessment, documentation, the helping relationship, and the process of therapy are systematically analyzed. The lab experience incorporated into this course is to emphasize activity skill development. This course is for majors only. Prerequisite: RECR 260.

RECR 362 Therapeutic Recreation Interventions (3)

This course is an in-depth examination of therapeutic recreation interventions and modalities used to assist individuals with illnesses and disabilities to improve and/or maintain their maximum functioning. Examples include but are not limited to social skills training, leisure education, remotivation, reality orientation, community re-integration, and adventure therapy. This course is for majors only. Prerequisite: RECR 260.

RECR 371 Marketing for Commercial Recreation Enterprises (3)

This course is designed to acquaint the student with the importance of marketing to the commercial recreation industry. Particular attention will be placed upon the implementation of the marketing concept as well as an in-depth look into the development and implementation of a marketing plan. Consumer decision processes with their marketing implications will also be considered. Prerequisite: RECR 270.

RECR 380 Coastal and Marine Recreation (3)

This course will provide an overview of the types and extent of recreational pursuits in coastal and marine environments. Historical aspects and trends in participation will be surveyed. Emphasis is on management of coastal and marine resources and issues associated with the use of these resources for recreation. Prerequisite: RECR 281.

RECR 381 Issues in Outdoor Recreation Management (3)

This course provides advanced study in the area of outdoor recreation and natural resources management. Students will explore current issues faced by federal, state, and local government agencies and private and commercial enterprises responsible for resource management. Students will learn a problem-solving approach to the resolution of issues. Prerequisite: RECR 281.

RECR 390 Therapeutic Practicum (1)

This course involves analysis of the administration of a local agency offering therapeutic recreation services. Majors will gain practical field experience through participation in programming and interaction with agency personnel. Preparation of an agency profile and critique of field experience are required assignments. Prerequisite: RECR 150.

RECR 391 Outdoor Practicum (1)

This course involves analysis of the administration of a local agency offering outdoor recreation or environmental education services. Majors will gain practical field experience through participation in programming and interaction with agency personnel. Preparation of an agency profile and critique of field experience are required assignments. Prerequisite: RECR 150.

RECR 392 Commercial Practicum (1)

This course involves analysis of the administration of a local agency offering commercial recreation services. Majors will gain practical field experience through participation in programming and interaction with agency personnel. Preparation of an agency and critique of field experience are required assignments. Prerequisite: RECR 150.

RECR 393 Community Practicum (1)

This course analyzes the administration of a local agency offering community recreation services. Majors will gain practical field experience through participation in programming and interaction with agency personnel. Preparation of an agency profile and critique of field experience are required assignments. Prerequisite: RECR 150.

RECR 450 Recreation Areas and Facilities (3)

This course will enable students to develop an understanding of the planning, design, operation, and maintenance of indoor and outdoor recreation areas and facilities. Students will study existing facilities and be required to complete projects related to facility development.

Prerequisites: RECR 150, 351, senior standing, approval of instructor; recreation majors only.

RECR 451 Seminar (3)

This course involves discussion and intensive study of selected issues, problems, and topics with which seniors should be familiar as they prepare to enter the world of work/graduate school. Prerequisite: Senior status, approval of instructor, recreation majors only.

RECR 452 Research Methods (3)

This course is designed to develop an understanding of the principles of scientific investigation and analysis. Methods of data collection, sampling, research designs, qualitative and quantitative paradigms are reviewed. Students will interpret and apply research principles to leisure services. Prerequisites: RECR 150, 351, senior status, approval of instructor, recreation majors only.

RECR 460 Concepts and Issues in Therapeutic Recreation (3)

This course is a continuation of RECR 361, which concentrates on the preparation of Recreation Therapy practitioners. Human development, leisure education, therapeutic techniques and approaches, treatment protocols, and the inter-disciplinary approach to treatment are examined. Other contemporary issues and trends are analyzed. Prerequisite: RECR 361. Recreation majors only.

RECR 470 Ski Area Management (3)

This course is designed to give the student an overview of ski area management with emphasis on design principles, financial practices, and operating procedures necessary for the successful operation of a ski area. Prerequisites: RECR 150, 270.

RECR 471 Seminar in Commercial Recreation (3)

This course will provide discussion and intensive study of issues, topics, trends, and problems within the field of commercial recreation. Prerequisites: RECR 150, 270; MGT 211.

RECR 480 Environmental Interpretation (3)

This course prepares the student to develop and to supervise interpretive services and public outdoor education programs. The lab concentrates on interpretive skills including displays and exhibits, interpretive walks, slide presentations, and interpretive trails. Prerequisites: RECR 280.

RECR 485 Independent Study (Semester hours arranged)

This course is available for one, two, or three credits with five hours faculty involvement per credit on topics approved by the department and not regularly listed in the catalog.

RECR 486 Internship (Semester hours arranged)

Prerequisite: Recreation majors only.

Rehabilitative Services

College of Education

Stroud Hall Room 105

- 570-422-3558.....www.esu.edu/sped

About the Program

The undergraduate Rehabilitative Services program prepares students to work in a broad range of rehabilitation settings with youths through adults who have various types and degrees of disabilities. These settings may include day service or employment settings, supported living, residential settings, and rehabilitation facilities.

Although students may obtain employment in such settings upon completion of their degree, many students elect to pursue graduate study in fields such as occupational therapy, physical therapy, and vocational rehabilitation counseling. The Rehabilitative Services program provides an excellent foundation for graduate study in these areas. The Rehabilitative Services program is part of ESU's Department of Special Education and Rehabilitation.

- More detailed information is available from the department.

Are you interested in...

- Assisting youth and adults with disabilities so they will be successful in society
- Guiding youth and adults with disabilities to be successful in employment, housing, and recreational situations
- Helping youth and adults with disabilities with life skill needs

Choose Rehabilitative Services at ESU

- Small class size
- Practical field experiences, including internship placement
- Qualified, experienced faculty
- Frequent faculty interactions

Is Rehabilitative Services a career path for me?

Career Potential

- Employment consultant
- Case manager
- Rehabilitation specialist
- Community residence supervisor

Career Settings

- Day service
- Employment settings
- Supported living
- Residential settings
- Rehabilitation facilities

Bachelor of Science in Rehabilitative and Human Services

70 semester hours

Rehabilitative Services core requirements:

SPRE 100, 200, 201, 214, 300, 301, 310, 315, 318, 320, 486 and 487; SPED 105; PSY 222; HLTH 240. Plus 18 adviser-approved electives.

A minimum overall QPA of 2.5 is required for admission into and graduation from the program.

Falling below a QPA of 2.5 will result in a Departmental Probationary Status for one semester, and may mean dismissal from Rehabilitative Services Studies if the QPA is not brought up to 2.5 at the end of the probationary semester.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

SPRE 100 Foundations of Human Services	3
SPED 105 Foundations of Special Education	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SPRE 200 Individuals with Exceptionalities in Community Life	3
PSY 100 GE: General Psychology	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

SPED 201 Assessment & Evaluation in Special Education	3
PSY 222 Psychology of Adjustment	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SPRE 214 Behavior Management with Individuals with Exceptionalities	3
HLTH 240 Health Emergencies	3
Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

SPRE 301 The Vocational Rehabilitation Process	3
SPED 311 Etiology and Diagnosis of Individuals with	3

Exceptionalities	
Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SPRE 300 Developing Integrated Employment Opportunities	3
SPRE 315 Transition from School to Adulthood	3
Elective	3
Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Senior Year

Fall

HLTH 432 Death and Dying - Implications for Health	3
Elective	3
Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

SPRE 486 Field Experience and Internship	12
SPRE 487 Internship Practicum	1
Subtotal	**13**
Total Credits	**120**

The Rehabilitative Program is being redesigned in order to continue to meet the needs of the students and adults in the field. Additional areas of training and changes in course selections and requirements may occur. Please contact the Chair of the department with any questions.

For more information, contact the department by calling 570-422-3558 or visit Stroud Hall, Room 108 570-422-3558 www.esu.edu/sped

Student Organizations

- **The Council for Exceptional Children (CEC)** is a campus group that is part of an international organization that promotes quality programs for individuals with disabilities. CEC provides a great opportunity to meet fellow special educators and work with individuals of all ages who have disabilities. Some of the CEC activities include:
  - Visiting adults with mental retardation at a local state developmental center
  - Helping with Special Olympics
  - Tutoring at-risk students
  - Attending a state level CEC conference
- **Sigma Pi Epsilon Delta** is the National Honor Society for special education and rehabilitation majors. Honor members provide activities for individuals with disabilities in the community.
- **Rehabilitative Services Student Organization (RSSO)** is the organization for majors in rehabilitative services. Members of the organization host speakers from adult service agencies and provide services to individuals with disabilities who receive services from area rehabilitation agencies. Our organization is also an active supporter of the Pennsylvania Rehabilitation Association, which is the state chapter of the National Rehabilitation.Association.
- **Best Buddies** is an international organization that enhances the lives of people with intellectual disabilities by providing opportunities for one-to-one friendships and integrated employment. At East Stroudsburg University, we match university students and individuals with intellectual disabilities throughout the community in one-to-one friendships.

Faculty

Professors:

Teri Burcroff (tburcroff@po-box.esu.edu)

Domenico Cavaiuolo (dcavaiuolo@po-box.esu.edu)

Diane Cavanagh (cavanagh@po-box.esu.edu)

Gina Scala, Chair (gscala@po-box.esu.edu)

Daniel Steere (dsteere@po-box.esu.edu)

Associate Professor:

Heather Garrison (hgarrison@po-box.esu.edu)

Assistant Professor:

Caroline DiPipi-Hoy (cdipipi-hoy@po-box.esu.edu)

Course Descriptions

SPRE 100 Foundations of Human Services (3)

This course is an orientation to the rehabilitation and normalization process, including a survey of historical development, principles, philosophy, disability, needs of people with disabilities, legal aspects of rehabilitation, and related programs of services to individuals with disabilities.

SPRE 200 Individuals with Exceptionalities in Community Life (3)

This course places an emphasis on the role of individuals with disabilities in society.

SPRE 201 Community Rehabilitative Services (3)

This course covers the traditional, current, and emerging roles of the community in the rehabilitative process. Emphasis is placed on shared responsibilities of federal, state, regional, and local agencies. Students explore pertinent legislation and implications for integrated and cooperative services. Prerequisite: SPRE 100.

SPRE 214 Positive Behavior Support (3)

This course addresses all elements of effective classroom management which emphasizes behavior reduction strategies that are consistent with a positive behavioral support approach. All elements of conducting a functional assessment in developing a behavioral support plan for school and /or employment settings are addressed. Prerequisite: SPED 105.

SPRE 300 Developing Integrated Employment Opportunities (3)

This course is designed to help students majoring in rehabilitative services to become knowledgeable of modern designs of vocational education and career planning for individuals with disabilities, and knowledgeable of federal, state, and local regulations concerning vocational training and to develop an awareness of problems of integrating persons with disabling conditions into the general work force. Prerequisite: SPRE 100.

SPRE 301 The Vocational Rehabilitation Process (3)

This course assists students in Rehabilitative Services to develop an understanding of the vocational rehabilitative process. The roles and duties of rehabilitation counselors will be discussed, including case management, assessment and interviewing functions. Prerequisites: SPRE 100, 200, 201; SPED 105.

SPRE 310 Recreation and Leisure for Individuals with Disabilities (3)

This course provides the student with an opportunity to participate in an on-site outdoor education program for local school aged children and/or adults with exceptionalities. Emphasis on special recreational services include the development, supervision and administration of programs for all types of exceptionalities.

SPRE 311 E&D Individuals with Exceptionalities (3)

This course is a study of the causative factors of high/low incidence disabilities. Included are atypical cognitive, physical, psychological, medical and psycho-social conditions of children and adults. Emphasis is placed on the development of diagnostic skills and the recognition of diagnostic criteria in the clinical setting. Skills in collaboration and teaming in the clinical, classroom and service agency settings are examined.

SPRE 315 Transition from School to Adulthood (3)

This course provides students with a proactive approach to transition planning for the provision of services that result in positive adult outcomes for students leaving the school system. Prerequisites: SPRE 100, 200, 201; SPED 105.

SPRE 318 Current Issues in Psychiatric Rehabilitation (3)

This course provides a basic orientation to the field of psychiatric rehabilitation. The course will include historical antecedents, as well as philosophical and programmatic connections to the field of rehabilitation counseling. The course will also cover assessment, planning and service delivery methods for those intending to work in rehabilitation settings that focus on serving individuals with psychiatric disabilities.

SPRE 320 Advanced Issues in Disability Studies (3)

This course in an interdisciplinary exploration of the sociocultural construct of disability. Disabilities Studies views disability as part of the normal range of human experiences and explores disability as a cultural, rather than individual, phenonemon that results from disabling social interactions. Students will examine changes in social perceptions regarding disability and the impact on the lives of people with disabilities.

SPRE 486 Field Experience and Internship (12 credits)

This course consists of at least one field experience placement with populations having physical or mental disabilities in various agencies, developmental centers, rehabilitation facilities, and the like that serve the needs of that population throughout the tri-county area. Assignments in other geographical areas may be utilized when deemed appropriate and approved by the Department Chairperson. Intern supervision will be provided by the faculty of Special Education and Rehabilitation.

SPRE 487 Internship Practicum (1)

The Internship Practicum meets on a regular basis to provide current interns in the Rehabilitative Services major with an opportunity to discuss current issues in their internship experiences and to further explore topics of interest. The topics within each practicum session represent immediate intern needs regarding professional growth and development. Corequisite: SPRE 486

Note: *The Rehabilitative Program is being redesigned in order to continue to meet the needs of the students and adults in the field. Additional areas of training and changes in course selections and requirements may occur. Please contact the chair of the department with any questions.*

Social Studies

College of Arts and Sciences

The Faculty of Social Studies
www.esu.edu/history

Bachelor of Arts in History (with Secondary Education Social Studies Certification)

The Pennsylvania Department of Education has made some recent changes in teacher certification requirements. Anyone applying for teacher certification after December 31, 2012 will be subject to different program and certification requirements. These requirements will be published pending approval by the Pennsylvania Department of Education and the Pennsylvania State System of Higher Education.

ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

The Commonwealth of Pennsylvania has established new requirements for all candidates in teacher preparation programs. Please refer to the section The College of Education in this catalog for specific requirements for admission into teacher education programs.

Please see the university requirements in this catalog. This program requires 129 credits.

Bachelor of Arts in History (with Secondary Education Social Studies Certification)

129 semester hours

BA requirements in History **(37 credits):**

- Two of the following: HIST 111, 112, 113;
- and two of the following: HIST 141, 142, 143
- and one of the following: HIST 270, 271, 272, 281, 282, 288, 335, 371, 381, 382, 424, 471, 472, 473, 474
- and one of the following: HIST 115, 313, 314, 330, 333, 343, 363: HIST 352, 390, 495 and 499. Nine additional semester hours in History.

Required Social Science courses **(21 credits):**

- POLS 111, 211, one POLS elective (200 level or above), ECON 111, SOC 111, GEOG 130, ECON 112 or SOC 102.

Required Education Courses **(36 credits):**

- PSED 150, PSED 250, REED 350, SPED 350, PSED 420, PSED 421, PSED 430, PSED 431 and PSED 458.

Additional Requirements: **All Social Studies Certification students must take PSY 100, two Math courses and one English Literature course.**

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

HIST 141: Foundations of United States or	3
or	
HIST 142: U.S. as a Developing Nation or	
ENGL 103: English Composition	3
HIST 111: World Civilization to 1300	3
or	
HIST 112: Modern World Civilization 1300-1914	
PSED 150: Introduction to Teaching All Students	6
Fit Elective	1
Subtotal	**16**

Spring

HIST 143: 20th Century Untied States History	3
HIST 113: 20th Century World Since 1914	3
MATH Elective	3
General Education – Arts and Letters	3
POLS 211: American Government	3
FIT Elective	1
Subtotal	**16**

Sophomore Year

Fall

PSED 250: The Psychology of Learning In Diverse Communities	3
English Literature	3
HIST– European Requirement	3
General Education – Natural Sciences	3
POLS 111: Principles of Political Science	3
Subtotal	**15**

Spring

HIST Elective	3
SOC 111: Introduction to Sociology	3
ECON 111: Principles of Macroeconomics	3
PSY 100: General Psychology	3
General Education – Arts and Letters	3
MATH Elective	3
Subtotal	**18**

Junior Year

Fall

HIST 390: Seminar I	3
HIST Elective (Non Western)	3
REED 350: Teaching Reading to Communities of Diverse Learners	3
GEOG 130: World Regional Geograpghy	3

General Education – Arts and Letters	3
General Education – Arts and Letters	3
Subtotal	**18**

Spring

HIST 352: History of Pennsylvania	3
HIST Elective	3
SPED 350: Assessment of Student Learning and Behavior in Diverse Communities	3
ECON 112: Principles of Macroeconomics or SOC 102: Introduction to Cultural Diversity	3
PSED 420: Seminar in Secondary Education I: Instructional Structures and Strategies	3
POLS Elective	3
Subtotal	**18**

Senior Year

Fall

HIST 495: Seminar: Historical Research and Presentation	3
HIST Elective	3
PSED 421: Seminar in Secondary Education II: Teaching Secondary Students In Diverse, Inclusive Classroom	3
PSED 458: Teaching of Social Studies in the Secondary Schools	3
General Education - Natural Science	3
Subtotal	**15**

Spring

HIST 499: Student Teaching Internship	1
PSED 430: Student Teaching in Secondary Education/ Middle School/Junior High School	6
PSED 431: Student Teaching in Secondary Education/ Senior High School	6
Subtotal	**13**
Total Credits	**129**

Department of History 570-422-3286 www.esu.edu/hist

Social Work

College of Arts and Sciences

The Faculty of Social Sciences
Stroud Hall, Room 414
570-422-3453.....www.esu.edu/soc

About the Program

The Department of Sociology, Social Work and Criminal Justice offers a Bachelor of Arts in Sociology; Bachelors of Science in Social Work; and Bachelors of Science in Criminal Justice with three minors in Sociology, Social Work, and Criminal Justice.

The goal of the Social Work program includes preparing competent professionals, developing social work knowledge, providing leadership in the development of social service delivery systems, and providing students the educational background necessary for competent generalist social work practice in a range of human service settings and/or to pursue graduate studies in social work or related disciplines.

This program is offered by the Department of Sociology, Social Work and Criminal Justice.

Is social worker a career path for me?

Career Potential

- Social Worker in an array if human service settings
- Social Researcher
- Community Organizer

Career Settings

- Non for Profit Agencies
- Mental Health Agencies
- Child Warfare Agencies
- Substance Abuse Agencies
- Health Care Systems Agencies
- Education
- Government
- Community Relations

More detailed career information is available from the department.

Bachelors of Science in Social Work

48 semester hours

- **Required Requisite Courses**: SOC 102; SOSW 140, 220; SOC 254, 310, 312, 331; SOSW 371, 372, 373, 483, 484, Total of 6 elective credit from the following: SOSW 321, 325, 326; SOC 338, 342, 343, 377; SOCJ 354
- **Corequisite (Directed GE) Courses:** SOC 111, 231; PSY 100; POLS 211; ECON 111; BIOL 111
- A minimum overall cumulative grade point average (GPA) of 2.0 is required with a minimum 2.5 GPA required in the Social Work major.
- Please see the university requirements in this catalog.

Program Curriculum Plan

(*Subject to change by the university without notice)*

Freshman Year

Fall

SOSW 140: Foundation of Social Work Practice	3
SOC 111 GE: Introduction to Sociology	3
English Composition	3
PSY 100: General Psychology	3
General Education Elective	3
Subtotal	**15**

Spring

SOSW 220: Contemporary Social Work Practice	3
SOC 102: Introduction to Cultural Diversity	3
ECON 111: Principles of Macroeconomics	3
BIOL 111: Human Anatomy and Physiology	4
General Elective	3
Subtotal	**16**

Sophomore Year

Fall

SOC 231: Marriage and Family	3
SOC 254: Qualitative Approaches in Sociology	3
POLS 211 GE:American Goverment	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

SOC 310 GE: Introduction to Social Walfare	3
SOC 331: Sociology of Aging & the Life Course	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Junior Year

Fall

SOC 312: Research Methods	3
SOSW 371: Social Work with Individual & Families	3
Free Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SOSW 372: Social Work with Groups	3
SOSW 373: Social Work with Communities and Organizations	3
Social Work Elective	3
Free Elective	3
Free Elective	3
Subtotal	**15**

Senior Year

Fall

SOSW 483: Social Work Practice and Skills I	6
Social Work Elective	3
Free Elective	3
Free Elective	3
Subtotal	**15**

Spring

SOSW 484: Social Work Practice and Skills II	6
Free Elective	3
Free Elective	3
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3453

Stroud Hall, Room 414 570-422-3453 www.esu.edu/soc

Minor in Social Work

24 Semester Hours

The goal of the Social Work program is to provide students the educational background necessary for competent generalist social work practice in a range of human service settings and/or to pursue graduate study in social work or related disciplines.

- **Required courses:** SOSW 140; SOC 310, 331; SOSW 371, 372; SOC 486
- **Electives:** 6 semester hours from SOSW 321, 325, 326, 373
- **Additional requirements:** Directed GE: SOC 111; Student must have a 2.5 GPA in the minor.

Faculty

Professor:

Barbara Collins, Chair (bcollins@po-box.esu.edu)

Reto Muller (rmuller@po-box.esu.edu)

Hooshang Pazaki (shpazaki@po-box.esu.edu)

Associate Professors:

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Marianne Cutler (mcutler@po-box.esu.edu)

Chin Hu (chu@po-box.esu.edu)

Gerard LaSalle (glasalle@po-box.esu.edu)

Instructor:

Michael Muth (mmuth@po-box.esu.edu)

Course Descriptions

SOSW 140 Foundations of Social Work Practice (3)

This course is designed to introduce students with social work practice with individuals, families, groups, organizations, and communities as applicable to various social work fields of practice. It also introduces students to the historical foundations, contemporary knowledge base, core values, and ethical principles of the social work profession.

SOSW 220 Contemporary Social Work Practice (3)

This course is designed to focus on contemporary issues and approaches in social work practice, and the responsibilities and ethics of a professional social worker. The course will also introduce students to the basic skills of helping. A limited field experience will enhance the classroom content and provide a venue for students to explore contemporary practice in a field of social work that interests them.

SOSW 321 Helping Philosophies and Methods for Social Workers (3)

This course provides an introduction to the main modern therapies that professional social workers can use with their clients or take into consideration in making referrals. The main assumptions, concepts, and methods of dynamic psychotherapy, behavior therapy, and humanistic psychotherapy will be analyzed and illustrated. Prerequisite: SOSW 140. This course will not count for the Sociology major.

SOSW 322 Theory and Practice in Groups (3)

The focus of this course is small group theory and practice as applicable to social work practice. Social work intervention with family groups, problem-centered groups, and social action focused groups will each be examined. Focus will be both on developing understanding of group dynamics and group process, and developing skills in group work practice. This course will not count for the Sociology major. Prerequisite: SOC 311.

SOSW 325 Crisis Intervention (3)

This course will introduce students to the theoretical knowledge and practice skills necessary to competently intervene as crisis counselors in selected crisis situations. This course does not count for the Sociology major. Prerequisite: SOC 311 or permission of instructor.

SOSW 326 Child Welfare Services (3)

This is a social welfare policy course providing a comprehensive study of principal child welfare policy and services. Supportive, supplementary, protective, substitute services will be covered with a special focus on the problem of child abuse and neglect. Emphasis will be on child welfare services as a field of social work practice. This course will not count toward the Sociology major. Prerequisite: SOSW 140.

SOSW 371 Social Work with Individuals & Families (3)

This course provides the foundation for social work practice with individuals and families. It emphasizes the basic knowledge, analytic and practice skills, and values necessary for direct practice. Students will learn how to engage/join with individuals and families. Specific knowledge to assist students in both assessment and establishing goals for intervention will be covered. Pre-requisite(s): SOSW 140

SOSW 372 Social Work with Groups (3)

The focus of this course is small group theory and practice as applicable to social work practice. Social work intervention with family groups, problem-centered groups, and social action focused groups will be examined. Focus will be both on developing understanding of group dynamics and group process, and developing skills in group work practice. Prerequisite: SOSW 140 and SOSW 371.

SOSW 373 Social Work with Communities and Organizations (3)

This course focuses on developing knowledge and skills appropriate for social work practice with communities and organizations. The course designed to teach skills to influence the organizational context of practice, as well as community organizing and program development skills. Pre-requisite(s): SOSW 140, SOSW 371.

SOSW 483 Social Work Practice and Skills I (6)

This course is designed to provide in-depth knowledge and skills in the professional practice of social work through an integrated class and agency-based learning experience. Major theories related to professional practice will be examined and skills in assessment, planning intervention, and evaluation will be developed. Emphasis is placed on the development of an increased understanding of the use of self in the professional social work role. This course will not count toward the sociology major. Pre-requisite(s): SOSW 140, 371, 372, 373.

SOSW 484 Social Work Practice and Skills II (6)

This course is the second semester long experience designed to provide students with an advanced opportunity to apply in-depth social work knowledge, skills, values and ethics through an integrated class and agency-based learning experience. Students will complete a capstone project related to their agency-based experience. Students must receive a minimum of a C in SOSW 483 to be able to register for the course. This course will not count toward the sociology major. Pre-requisite(s): SOSW 140, SOC 310, 311, SOSW 371, 372, 373, 483.

Sociology

About the Program

The Department of Sociology, Social Work and Criminal Justice offers a Bachelor of Arts in Sociology; Bachelors of Science in Social Work; and Bachelors of Science in Criminal Justice and three minors in Sociology, Social Work, and Criminal Justice. Students may choose to pursue Sociology; Social Work; or Criminal Justice with a minor in either Sociology, Social Work, or Criminal Justice.

The Sociology major emphasizes developing in students the knowledge and skills necessary to think critically and imaginatively about social issues and to promote social betterment.

As students work towards their degree, they will find that sociology is much more than an academic discipline. In fact, sociology offers students an exciting new way of seeing the social world they live in. Students can expect sociology to enrich their personal life, as well as prepare their way for a deeply satisfying professional life.

Goals of the major include the acquisition of knowledge about human diversity, social inequality, and the pursuit of social justice.

The major and its programs prepare students for various professional roles in Human Services and Criminal Justice, and provide the educational background necessary for students to pursue graduate studies in criminology/criminal justice, law, social work, counseling, policy development, research, and other related disciplines.

Since all human behavior is social and the scope of sociology respectively broad, career prospects for majors are (and will remain) quite excellent at both entry and advanced levels.

Are you interested in...

- Studying social behavior and society
- Analyzing how social influences affect different individuals
- Designing research projects
- Helping to formulate public policy and resolve social problems

Choose Sociology at ESU

- Interactive classroom environments
- Practical field experiences
- Qualified, experienced faculty
- Frequent faculty interactions

Is sociology a career path for me?

Career Potential

- Sociologist
- Case Worker
- Criminal Justice Professional
- Manager
- Social Researcher
- Government Agency Professional

Career Settings

- Human Services Agencies
- Criminal Justice Agencies
- Business
- Education
- Government
- Community Relations

More detailed career information is available from the department.

Bachelor of Arts in Sociology

Program Features

33 Semester Hours

- **Required major courses:** SOC 111, 254, 255, 312, 370, and 495; 15 additional semester hours.
- **Other requirements:**
- Minimum quality point average of 2.5 in major at time of graduation
- Minimum of "C" in all required courses
- 21 semester credits in Sociology must be earned at ESU including SOC 254, 255, 312, 370, and 495.
- Please see the university requirements in the Undergraduate Catalog.

Program Curriculum Plan

(*Subject to change by the university without notice)*

Freshman Year

Fall

SOC 111: Introduction to Sociology	3
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

Sociology Electives (100 or 200 level)	3
CMST 111: Speech Communication	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

SOC 254: Quantitative Approaches in Sociology or SOC 255: Sociological Inquiry	3
Sociology Elective	3
Free Electives	3 to 6
General Education Electives	6 to 12
Subtotal	**15**

Spring

SOC 254: Quantitative Approaches in Sociology or	3

SOC 255: Sociological Inquiry	
Sociology Elective	3
Electives	3 to 6
General Education Electives	6 to 12
Subtotal	**15**

Junior Year

Fall

SOC 312: Research Methods or SOC 370: Sociological Theory	3
Sociology Elective (300/400 level)	3
Free Electives	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SOC 312: Research Methods or SOC 370: Sociological Theory	3
Sociology Elective (300/400 level)	3
Free Electives	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

SOC 495: Seminar	3
Free Electives	12
Subtotal	**15**

Spring

Or SOC 495: Seminar	3
Free Electives	12
Subtotal	**15**
Total Credits	**120**

**Criminal Justice and Social Work students complete required concentration electives.*

For more information, contact the department by calling 570-422-3453 or visit Stroud Hall, Room 414 570-422-3453 www.esu.edu/soc

Bachelor of Arts in Sociology and Spanish

The Faculty of Social Sciences

Coordinating departments:
Foreign Languages and Sociology-Anthropology.

This degree program prepares students for careers in social work, criminal justice and related fields in urban areas with large Spanish-speaking populations.

54 semester hours

- **Required Sociology courses:** SOC 111, 254, 255, 312, 370, 12 additional semester hours (minimum of 27 semester hours.
- **Required Spanish courses**: FLSP 315, 336, 444, 18 additional semester hours (minimum of 27 semester hours).
- *Please see the university requirements in this catalog.*

Minor in Sociology

18 Credits

- **Required courses:** SOC 102, 111, 255, and 370
- **Additional requirements:** 6 credits of Sociology electives. Eligible courses include: SOC 201, 231, 241, 290, 331, 341, 342, 343, 344, 372, 374, 377. Of these, no more than one can be taken below the 300 level.

Minor in Criminal Justice

24 semester hours
The goal of the Criminal Justice Administration program is to provide students with the educational background necessary to pursue careers in Criminal Justice, and/or to pursue graduate study in criminology, criminal justice, law, or other related fields.

- **Required concentration courses:** SOC 341, 342, 486; SOCJ 150, 250 or 352, 350
- **Electives:** Three additional semester hours selected from the following recommended courses: CHEM 275; FLSP 234; PHYS 107, 251, 252, 253; SOC 441; SOCJ 151, 251, 252, 253, 351; PSY 271.

Transfer Policy:

1. No upper level (300 and 400 level) courses will be accepted from community or junior colleges for the Criminal Justice major or minor.
2. For Criminal Justice minor - a minimum of 15 credits must be taken at East Stroudsburg, and 300 and 400 level courses from four-year colleges are accepted only with permission of the department.

Minor in Social Work

24 Semester Hours
The goal of the Social Work program is to provide students the educational background necessary for competent generalist social work practice in a range of human service settings and/or to pursue graduate study in social work or related disciplines.

- **Required courses:** SOSW 140; SOC 310, 331; SOSW 371, 372; SOC 486
- **Electives:** 6 semester hours from SOSW 321, 325, 326, 373
- **Additional requirements:** Directed GE: SOC 111; Student must have a 2.5 GPA in the minor.

Faculty

Professor:
Barbara Collins, Chair (bcollins@po-box.esu.edu)

Reto Muller (rmuller@po-box.esu.edu)

Hooshang Pazaki (shpazaki@po-box.esu.edu)

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Marianne Cutler (mcutler@po-box.esu.edu)

Chin Hu (chu@po-box.esu.edu)

Gerard LaSalle (glasalle@po-box.esu.edu)

Instructor:

Michael Muth (mmuth@po-box.esu.edu)

Course Descriptions

SOC 102 GE: Introduction to Cultural Diversity (3)

This course provides a cross-cultural study of all human behaviors and social arrangements in contemporary cultures. Topics surveyed include race and ethnicity; language; gender and sexuality; age and kinship roles; religion and spiritual life; marriage and the family; political and economic behavior; globalization and cultural change; and the arts. The main focus will be on the application of the anthropological perspective and methods for understanding social and cultural differences and similarities.

SOC 111 GE: Introduction to Sociology (3)

This course examines the nature of social phenomena, fields and methods of sociology, and social processes involved in the evolution of human society.

SOC 201 GE: The Comparison of Societies (3)

This class is designed to introduce students to a sociological and cross-disciplinary understanding of major ideas, institutions, and historical events that have shaped human societies. Selected societies in Asia, the Middle East, Africa, Latin America and Europe will be studied. The class will focus on various social and cultural issues, such as family and religion, racial and gender relations, deviance, immigration, and social stratification systems. To facilitate cross-cultural understanding and awareness, students will be asked to read broadly on subjects relating to the lives of people from different societies and to reflect on their own experience. Prerequisite: SOC 111.

SOC 231 GE: Marriage and Family (3)

This course examines the "family" in its various forms. Special attention will be placed on an analysis of the family as an ideological construct that upholds lines of difference according to race, class, gender, and sexual identity. Family change is studied throughout the course, including shifts in patterns of dating and courtship, cohabitation, the division of both paid and unpaid labor, divorce and blended families.

SOC 241 GE: Contemporary Social Problems (3)

This course introduces students to the sociological study of social problems facing contemporary American society. It explores the social, political, and cultural causes, consequences, and possible solutions to social problems related to health care, crime, poverty, and inequality based on social class, racial and ethnic background, gender, and sexual orientation. Prerequisite: SOC 111.

SOC 254 Quantitative Approaches in Sociology (3)

This course is a survey of the quantitative approaches for students in sociology. This course is designed to introduce the basics of the quantitative approaches in sociology to students majoring in sociology. The main emphasis will be on the applications of the quantitative methods and the interpretation of results in sociological reports and writings. Students will learn the logic and the applications of the quantitative methods of data analysis that are commonly utilized in sociology. Potential strengths and weaknesses of various quantitative methods of data analysis in sociological research will be discussed. Prerequisite: SOC 111 (with a grade of C or better)

SOC 255 Sociological Inquiry (3)

This course will familiarize students with the sociological perspective, the history of sociology, and major contemporary sociological paradigms and their historical roots. We will examine the role sociology plays in the larger society, consider the theories and research methods used by sociologists, and develop skills needed for a rewarding academic career as a major in our department. The course is also designed to help students sharpen their analytic and critical thinking skills as well as become more effective writers, listeners, and participants in the sociologically examined life. Prerequisite: SOC 111 (with a grade of C or better)

SOC 265 GE: Culture and Society in the Middle East (3)

This course provides the sociological perspectives on cultural practices and social institutions of the Middle Eastern societies. This course will discuss the regional and global forces that have shaped the Middle Eastern societies and cultures. More specifically, this course will cover topics such as the role of colonialism, religion, ethnicity, gender roles and family in the Middle East.

SOC 280 GE: Sociological Perspectives in Globalization (3)

This course examines globalization and its impact on societies, cultures, social groups, communities and the everyday life of individuals. It applies sociological perspectives to study globalization and its impact on issues such as workers and global migration, the livelihood of indigenous people, the role & status of women, food production and hunger, the spread and treatment of disease, and the depletion of environment. Prerequisite: SOC 111.

SOC 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as part of the university curriculum.

SOC 302 Social Inequality, Crime and Justice (3)

This course will utilize a structural and interactional approach to understanding notions of power that produce and reinforce inequality in the American criminal justice system. The course will primarily examine inequality as it pertains to race, class, gender, age and sexual orientation within this social institution. Prerequisites: SOC 111, SOCJ 150, 1 additional 200-300 level criminal justice or sociology course.

SOC 310 GE: Introduction to Social Welfare Policy & Services (3)

This course is designed to provide an overview of U.S. social welfare policy and service delivery. Major social welfare policies and programs will be highlighted and policy practice skills including the analysis of social welfare policy emphasized. Students will critically analyze the adequacy of various social welfare policies and programs. Prerequisite: SOC 111.

SOC 311 Introduction to Social Work (3)

This course is intended for students interested in social work and other helping professions to become familiar with theory and practice in the three major social work fields (casework, group work, and community organizations), to gain some insight into social work research, supervision, and social policy making, to study the generic principles common to the major fields of practice (i.e., suitable for a variety of situations calling for intervention with individuals, groups,

and communities), and to explore employment opportunities. Prerequisite: SOC 111.

SOC 312 Research Methods (3)

This course examines procedures for planning, organizing, and conducting qualitative and quantitative sociological research projects. Students will acquire the skills to implement research using a variety of methodologies, including surveys, interviews, and ethnographic field research. Prerequisites: SOC 111, 254.

SOC 331 Human Behavior and the Social Environment (3)

This course examines development throughout the life course. The social systems in which human development unfolds will be emphasized in the course as will the manner in which these can impair or foster health, happiness, and optimal adjustment across the life course. Prerequisite: SOC 111.

SOC 333 Chinese Culture and Society (3)

This course introduces students to the cultural practices, social institutions and social changes in Chinese society. Students will engage in a sociological analysis to understand the social, political and economic forces that shape the lives of individuals in Chinese society. More specifically, the course examines topics such as the impact of population policy on family, ethnic relations and conflicts, rural-urban migration, gender norms, political and economic developments and resistance movements.

Prerequisite: SOC 111 and either SOC 201 or SOC 280.

SOC 338 The Sociology of Poverty and Homelessness (3)

This course focuses on helping students develop an understanding of the dimensions of poverty and homelessness in the United States and explores the implications for distributive justice. Students will assess the effectiveness of the social policies and programs created to combat poverty and homelessness and participate in course-based service-learning and social action projects. Prerequisite: SOC 111 and 310.

SOC 341 GE: Criminology (3)

This course is an examination of theories of crime causation, demographic characteristics of criminals, the history of theories of punishment, and modern reformative and rehabilitative methods. Prerequisite: SOC 111.

SOC 342 GE: Juvenile Delinquency (3)

This course is a study of the delinquent as a person and juvenile delinquency as a social problem and theories of delinquent causation, methods of correctional treatment and community preventive projects will be systematically studied. Prerequisite: SOC 111.

SOC 343 GE: Racial and Cultural Minorities (3)

This course examines dominant-minority relations in the U.S. Special emphasis will be placed on how social, economic, and political power and privilege help create and perpetuate prejudice and discrimination. As America becomes more racially and culturally diverse, we need to make a greater effort to understand, respect, and benefit from the diversity around us. This course is intended to help students discover these benefits as well as deal with the challenges that go hand in hand with an increasingly multicultural society. Prerequisite: SOC 111.

SOC 344 Social Deviance (3)

This course will explore how and why certain acts come to be defined as deviant. Students will examine how deviance is defined, how the "actors" are maintained, and how violators of the definitions are processed and treated. A historical analysis of political processes that inform the evolution, modification, and enforcement of "deviant" categories will be discussed through the lens of various sociological perspectives. Prerequisites: 6 credits in SOC including SOC 111.

SOC 345 Sociology of Sexuality (3)

This course will examine individual and societal perceptions of, practices toward, and reactions to sexuality. Social context and power, especially as they pertain to issues of gender, race and sexual orientation, will be examined as they affect sexual identity and expressions of sexuality. The relative influence of physiology and learning processes will be explored as well. Prerequisite: SOC 111.

SOC 370 Sociological Theory (3)

This course is designed to give the student an overview of sociological theory. Students will be introduced to a wide range of theories and theoretical orientations and the major theorists associated with them. The course covers both classical and contemporary sociological theory. Special emphasis is placed on the strengths and weaknesses of each approach and the link between theory and substantive research. Prerequisites: SOC 111, 255.

SOC 372 Sociology of Religion (3)

This course explores religion in its varied manifestations as a social institution, as a cultural practice, and as a pattern of beliefs and practices that are shaped by and, in turn, shape societal conditions. Emphasis is placed on the role of religion in the public arena (political, the economical, and popular media), religious pluralism and conflict, the impact of race, gender, and social class on religion and the ongoing debate over the appropriate role of religion in social life. Prerequisite: SOC 111.

SOC 374 Political Sociology (3)

This course is the study of the social causes and consequences of given power distributions within or between societies and of the conflicts that lead to changes in the allocation of this power. The social backgrounds of extremist movements and of the "True Believers" that join them will be analyzed. Prerequisite: SOC 111.

SOC 377 GE: WS: Sociology of Women (3)

This course is specially designed to afford the student and/or professional person an open and non-threatening opportunity to examine both societal and personal sex role stereotyping and the attendant societal mechanisms by which these roles are mandated and enforced. A brief survey of women in society will be followed by an in-depth look at the women's movement and institutional change. Prerequisite: SOC 111.

SOC 378 GE: American Community (3)

This course examines the nature, structure, and functions of the community. It includes a study of the inter-relations of major institutions in the community; attention is directed to the city, the small town, and the rural community. Prerequisite: SOC 111.

SOC 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis. The student wishing independent study must contact a member of the Department of Sociology who is willing to supervise the study. The student's request for independent study must then be approved by the members of the Department. A minimum of five (5) hours per credit of exclusive time with the supervising faculty member will be made available to the student. Prerequisite: Advanced standing of 90 credits.

SOC 486 Field Work and Observation (Semester hours arranged)

This course is designed to provide the student with the opportunity to obtain practical experience with an agency in the community. Supervision will be given by both the community agency and the instructor. A weekly seminar class will be held with the instructor to discuss the experience. Prerequisites: Advanced standing of 90 credits, arrangements with and consent of instructor before registration.

SOC 487 and 488 Foreign Travel I and II (3), (3)

This course consists of a study trip to observe at first hand the metamorphosis of postwar Europe, a study of the history and governmental systems of Western European countries, their economic growth and integration through the common market, investigation of the social environment on a formal and informal basis, and a general study of Western Europe in the post-war world. Prerequisites: Advanced standing of 90 credits, consent of the chair of the department.

SOC 490 Social Implications of Computers (3)

This course presents concepts on how computers impact our lives and our society. It provides a framework for professional activity that involves explicit consideration of the social impacts of computers and presents tools and techniques which are applicable to the problems posed by the social implications of computers. Prerequisites: CPSC 111, 112, 231, 251.

SOC 495 Seminar (3)

This course consists of discussion and intensive study of selected topics, issues, problems, sociological writings, and investigations. Prerequisites: Advanced standing in Sociology, consent of instructor, SOC 111, 21 additional SOC credits including SOC 312 and 370.

Criminal Justice Courses

SOCJ 150 Introduction to Criminal Justice (3)

This course is an overview of the role of police, prosecution, court, and correctional processes in the administration of criminal justice in the United States. This course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major.

SOCJ 151 Introduction to Security (3)

This course discusses the history, nature, and scope of private security in modern society, the basic principles of physical security, internal loss prevention, defensive systems, fire prevention and safety, and the security function in the corporate structure. This course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major.

SOCJ 250 Corrections (3)

The correctional process (sentencing, incarceration, and release) will be examined. Prison classification, treatment systems, life "inside," discipline, inmates' rights, and parole prediction are studied. The course is offered in cooperation with the Criminal Justice Administration program. It will not count toward the Sociology major.

SOCJ 251 Police Organization and Administration (3)

This course is an examination of the historical development and present organization and administration of police departments and a consideration of the principles of organization best adapted to ensure effective service to the community. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major.

SOCJ 252 Organized Crime (3)

The history, growth, structure, philosophy, and scope of Organized Crime will be studied. Effective methods of prosecuting this type of crime will be reviewed. The course is offered in cooperation with the Criminal Justice Administration program. It will not count toward the Sociology major.

SOCJ 253 Violence in Society (3)

This course is an in-depth study of violence, with topics such as riots, campus and civil disorders, violent crime, terrorism, and assassinations discussed in detail to give the student an insight into this deviant behavior. The course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major.

SOCJ 302 Social Inequality, Crime and Justice (3)

This course will utilize a structural and interactional approach to understanding notions of power that produce and reinforce inequality in the American criminal justice system. The course will primarily examine inequality as it pertains to race, class, gender, age and sexual orientation within this social institution. Pre-requisite(s): SOC 111, SOCJ 150, 1 additional 200-300 level criminal justice or sociology course.

SOCJ 350 The Criminal Process (3)

This course provides an overview of the criminal process from arrest through trial and sentencing. It includes discussions of the law and procedures applicable at each stage, including classification of crimes, warrants, searches and seizures, confessions, evidence, preservation, preliminary hearings, motions, pleas, and trials. Particular crimes are treated substantively as necessary to supply examples. Practical exercises are contemplated. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOCJ 150.

SOCJ 351 Police Investigation (3)

This course considers appropriate conduct at the crime scene, techniques of interview, interrogation of witnesses and suspects, the uses of informants, studies of specific investigative methods for particular kinds of cases, and the presentation of police cases in court. The course is offered in cooperation with the Criminal Justice Administration Program. It will not count toward the Sociology major. Prerequisite: SOCJ 150.

SOCJ 352 Police and Community Relations (3)

This course is a review of the problems confronting the police and the community, a study of minorities to gain an understanding of their particular problems, an in-depth look at ways of achieving trust, understanding, respect, and cooperation from the public that the police serve. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOCJ 150.

SOCJ 353 Crisis Management in Law Enforcement (3)

This course will introduce students to the current issues of managing critical incidents and hostage situations that occur in law enforcement and corrections. It will focus on those activities necessary to stabilize life and property threatening incidents. It will provide an understanding of commanding high-risk incidents, pre-incident planning, and critical incident stress reactions. This course is offered in cooperation with the Criminal Justice Administration Program. The

course will not apply toward the Sociology major. Prerequisite: SOC 111 or SOCJ 150.

SOCJ 354 Drug Use and Abuse in Society (3)

This course will focus on drug use and abuse as it pertains to today's society. It will offer an in-depth look into the various types of drugs and how they affect the body along with the implications that arise through the abuse of these substances. It will explore the concept of addiction to the various controlled substances that are available pharmaceutically and on the black market. Stimulants, depressants, and hallucinogens will be discussed in-depth, along with the various State and Federal Laws that apply to the Controlled Substance Acts. Lastly it will look at alcohol use and abuse, over the counter medications, and the emerging trends of drug use that are ever changing in our society. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology Major. Prerequisite: SOC 111 or SOCJ 150.

SOCJ 460 Schools, Gangs, Violence and Society (3)

This course will examine the various aspects of violence as they relate to the school setting. It will take an in-depth look at gangs, weapons, and drugs in the school environment. This course will discuss some of the more recent approaches from law enforcement perspective that have worked in combating school violence. This course is offered in cooperation with the Criminal Justice Administration Program. The course will not apply toward the Sociology major. Prerequisite: SOC 111 or SOCJ 150, and a second course in Sociology.

SOCJ 475 Ethics in Criminal Justice (3)

Ethical decision-making is a central component of professional integrity. This course will introduce students to professional ethics in criminal justice, to the ethical dilemmas encountered by criminal justice professionals, and to the processes of making ethical decisions in criminal justice settings. Topics to be examined include police discretion and excessive force, racial profiling, prosecutorial misconduct, investigatory deception, and corruption. Prerequisite: SOCJ 150, 350, and either SOCJ 250 or 352.

Social Work Courses

SOSW 140 Foundations of Social Work Practice (3)

This course is designed to introduce students with social work practice with individuals, families, groups, organizations, and communities as applicable to various social work fields of practice. It also introduces students to the historical foundations, contemporary knowledge base, core values, and ethical principles of the social work profession.

SOSW 220 Contemporary Social Work Practice (3)

This course is designed to focus on contemporary issues and approaches in social work practice, and the responsibilities and ethics of a professional social worker. The course will also introduce students to the basic skills of helping. A limited field experience will enhance the classroom content and provide a venue for students to explore contemporary practice in a field of social work that interests them.

SOSW 321 Helping Philosophies and Methods for Social Workers (3)

This course provides an introduction to the main modern therapies that professional social workers can use with their clients or take into consideration in making referrals. The main assumptions, concepts, and methods of dynamic psychotherapy, behavior therapy, and humanistic psychotherapy will be analyzed and illustrated. Prerequisite: SOSW 140. This course will not count for the Sociology major.

SOSW 325 Crisis Intervention (3)

This course will introduce students to the theoretical knowledge and practice skills necessary to competently intervene as crisis counselors in selected crisis situations. This course does not count for the Sociology major. Prerequisite: SOC 311 or permission of instructor.

SOSW 326 Child Welfare Services (3)

This is a social welfare policy course providing a comprehensive study of principal child welfare policy and services. Supportive, supplementary, protective, substitute services will be covered with a special focus on the problem of child abuse and neglect. Emphasis will be on child welfare services as a field of social work practice. This course will not count toward the Sociology major. Prerequisite: SOSW 140.

SOSW 371 Social Work with Individuals & Families (3)

This course provides the foundation for social work practice with individuals and families. It emphasizes the basic knowledge, analytic and practice skills, and values necessary for direct practice. Students will learn how to engage/join with individuals and families. Specific knowledge to assist students in both assessment and establishing goals for intervention will be covered. Pre-requisite(s): SOSW 140

SOSW 372 Social Work with Groups (3)

The focus of this course is small group theory and practice as applicable to social work practice. Social work intervention with family groups, problem-centered groups, and social action focused groups will be examined. Focus will be both on developing understanding of group dynamics and group process, and developing skills in group work practice. Prerequisite: SOSW 140 and SOSW 371.

SOSW 373 Social Work with Communities and Organizations (3)

This course focuses on developing knowledge and skills appropriate for social work practice with communities and organizations. The course designed to teach skills to influence the organizational context of practice, as well as community organizing and program development skills. Pre-requisite(s): SOSW 140, SOSW 371.

SOSW 483 Social Work Practice and Skills I (6)

This course is designed to provide in-depth knowledge and skills in the professional practice of social work through an integrated class and agency-based learning experience. Major theories related to professional practice will be examined and skills in assessment, planning intervention, and evaluation will be developed. Emphasis is placed on the development of an increased understanding of the use of self in the professional social work role. This course will not count toward the sociology major. Pre-requisite(s): SOSW 140, 371, 372, 373.

SOSW 484 Social Work Practice and Skills II (6)

This course is the second semester long experience designed to provide students with an advanced opportunity to apply in-depth social work knowledge, skills, values and ethics through an integrated class and agency-based learning experience. Students will complete a capstone project related to their agency-based experience. Students must receive a minimum of a C in SOSW 483 to be able to register for the course. This course will not count toward the sociology major. Pre-requisite(s): SOSW 140, SOC 310, 311, SOSW 371, 372, 373, 483.

Special Education and Rehabilitation

College of Education

Stroud Hall Room 105

570-422-3558.....www.esu.edu/sped

About the Program

This degree program prepares students for teaching candidates with mental and/or physical disabilities as well as working with parents, general educators, and related service personnel.

The programs in Special Education reflect a curriculum that combine existing and emerging theory and best practices based upon a conceptual framework that develops educators who are reflective and deliberate decision makers.

Beginning educators develop knowledge, process, and professionalism. Graduates of Special Education/Dual Certificate programs will be eligible to teach students in grades PreK - 4 or 4 to 8 depending on their area of certification.

All students will be required to develop a plan to demonstrate Highly Qualified status as required by federal laws. The department offers the Integrated Program of studies cooperatively with the Department of Early Childhood and Elementary Education, leading to certification in both Special Education and Early Childhood or Middle Level Education.

ALL teacher education students should be in frequent consultation with their academic advisers to make sure they are meeting the appropriate program and certification requirements which will vary depending on a variety of circumstances.

Student Organizations

The Council for Exceptional Children (CEC) is a campus group that is part of an international organization that promotes quality programs for individuals with disabilities. CEC provides a great opportunity to meet fellow special educators and work with individuals of all ages who have disabilities. Some of the CEC activities include:

- Visiting adults with mental retardation at a local state developmental center
- Helping with Special Olympics
- Tutoring at-risk students
- Scheduling guest speakers to present information about current special education topics
- Attending a state level CEC conference

Sigma Pi Epsilon Delta is the National Honor Society for special education and rehabilitation majors. After completion of nine semester hours of special education major coursework and two recommendation letters, students may apply to join the honorary. Interested applicants must have earned an overall cumulative quality point average of 3.25 or higher in addition to 50 hours of working with individuals with disabilities. Honor society members support activities for individuals with disabilities in the community.

Best Buddies is an international organization that enhances the lives of people with intellectual disabilities by providing opportunities for one-to-one friendships and integrated employment. At East Stroudsburg University, we match university students and individuals with intellectual disabilities throughout the community in one-to-one friendships.

Rehabilitative Services Student Organization (RSSO) is the organization for majors in Rehabilitative Services. Members of the organization host speakers from adult service agencies and provide services from area rehabilitation agencies. Our organization is also an active supporter of the Pennsylvania Rehabilitation Association, which is the state chapter of the National Rehabilitation Association.

Scholarships

Several scholarship opportunities are available to ESU students majoring in Special Education and Rehabilitative Services:

- Dr. John Kovalkoski Memorial Scholarship - $230
- Class of 1937 Scholarship - $830
- Class of 1938 Scholarship - $670
- Class of 1940 Scholarship - $410
- Class of 1942 Scholarship - $450
- Class of 1945 Scholarship - $500
- Class of 1954 Scholarship - $550
- Class of 1955 Scholarship - $620
- SOAR Scholarship - $500

For application deadlines and procedures, contact the Special Education and Rehabilitation Department at 570-422-3558.

For more information, contact the department by calling 570-422-3558 or visit Stroud Hall, Room 108 570-422-3558 www.esu.edu/sped.

Bachelor of Science in Special Education PreK-8 Certification with Dual Certification in PreK-4

Program Features:

135 Semester Hours

- **Required general education courses:** English 103 and an English Literature course MATH 105, MATH 205, SOC 102, PSY 105
- **Required Professional Education courses:** PSED 150, REED 314, 315
- Required major courses: ECED 232, 263, 321, 322, 323, 332, 333, 334, 411, 412, 413, 414, 420, 430, 431, SPED 105, 201, 214, 215, 313, 314, 351, 420

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

PSED 150: Introduction to Teaching All Students	6
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

SPED 105: Special Education History and Law	3
ECED/SPED 232: Child Development & Cognition	3

General Education Elective: MATH 105	3
General Education Elective: ENGL (any English Literature)	3
General Education Elective	3
General Education Elective	3
Subtotal	**18**

Sophomore Year

Fall

SPED 201 Assessment and Evaluation	3
SPED 214 Positive Behavior Support	3
General Education Elective: MATH 205	3
General Education Elective: PSY 105	3
General Education Elective	3
	3
Subtotal	**18**

Spring

SPED 21:5 Instructional Planning	3
ECED 263: Found. of Early Childhood Education	3
General Education Elective: SOC 102	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**18**

Junior Year

Fall

SPED 314 Instr. Strats. Students w/Low Incid. Disab.	3
ECED 321 Enhancing Language & Cognitive Development	3
ECED 322 Family & Community Partnerships	3
ECED 323 Intergrating the Curriculum: Projects & Play	3
ECED 333 Math I Investigations and Intergrations	3
ECED 334 Designing & Managing Early Childhood Literacy Environment	3
Subtotal	**18**

Spring

SPED 313: Instr. Strats. Students w/High Incid. Disab.	3
REED 314: Found. of Rdg. for the Developing Child	3
ECED 411: Arts for the Developing Child	3
ECED 414: Social Studies for the Developing Child	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Senior Year

Fall

REED 315/SPED 315	3
ECED 332: Language Arts for Academic Success	3
SPED 351: Collaboration of Inclusion	3
ECED 412: Math for Academic Success	3
ECED 413: Science for the Developing Child	3
ECED 420 Advocacy, Leadership and Collaboration	1
Subtotal	**16**

Spring

ECED 331: Teacher as Researcher	3
SPED 420: Student Teaching	6
ECED 430	6
Subtotal	**15**
Total Credits	**135**

For more information, contact the department by calling 570-422-3558 or visit www.esu.edu/sped.

Special Education PreK-8 Certification with Dual Certificate in Middle-Level (4-8)

About the Programs

- **Special Education**
- **Integrated Special Education and Elementary Education**
- **Special Education PreK-8 with Dual Certification in PreK-4**
- **Special Education PreK-8 with Dual Certification in Middle Level (4-8)**

Special Education is an exciting and rewarding field and one that is also challenging and demanding. ESU is renowned for producing outstanding special education teachers who improve the lives of individuals with disabilities.

The Special Education Dual Certification programs at ESU prepare special education teachers to teach children with mild to severe mental and physical disabilities and to work with parents, general educators, and related service personnel. ESU's Special Education programs reflect the latest research into best practices and a conceptual framework that develops educators who are reflective and deliberate decision makers.

In February 2010, the Dual Special Education programs received the highest level of praise from Pennsylvania's Department of Education (PDE) for developing outstanding programs to prepare special educators to teach PreKindergarten (PreK) through 8th grade. PDE also recommended these programs as models for other universities to follow.

Graduates of the Special Education/Dual Certification programs will be eligible to teach either students in PreK through 4th grade or 4th through 8th grades in addition to teaching students with disabilities in PreK through 8th grade. Requirements will vary based on program entry and completion dates. Check with the department for details.

Are you interested in...

- Working with children and youth who have various disabilities
- Becoming involved in the academic, behavioral, and social development of the students
- Teaching students life skills and providing career counseling

Choose Special Education Dual Certification Programs at ESU

- Qualified, experienced faculty
- Small class size
- Practical experience

Is a Special Education Dual Certification Program a career path for me?

Career Potential

- Special education teacher
- Early Intervention teacher
- Elementary school teacher
- Secondary school teacher
- Middle school teacher
- Teacher's assistant
- Child care worker
- Transition coordinator

More detailed career information is available from the department.

Program Features:

135 Semester Hours (includes 18 credit content area concentration)

- **Required general education courses:** ENGL 104, 188, 190, BIOL 105; CHEM 115; MATH 105, 205; PHYS 105; ECON 111; GEOG 120; HIST 111, 141; POLS 211
- **Required Professional Education courses:** PSED 150, 244; REED 315, 340, 350; MATH 110; MATH 130 (Math, SS, Eng. con.) or MATH 135 (Science con. only); ENGL 412, 499 (1 credit in area of concentration: HIST 499, PHYS 499, or MATH 499)
- **Required major courses:** ELED 350, 431, 450; PSED 430; SPED 105, 201, 214, 215, 313, 314, 351
- **Required concentration**: Student selects a minimum of 18 semester hours of in depth work in one content area (see academic adviser for selection): English/Language Arts/ Reading; Social Studies; Science (Choice 1); Science (Choice 2); Math (Choice 1); Math (Choice 2)

Program Curriculum Plan

(Subject to change by university without notice)

Freshman Year

Fall

PSED 150: Introduction to Teaching All Students	6
General Education Elective MATH 105	3
ENGL 104: English Composition	3
General Education Elective- HIST 141	3
Fitness Elective	1
Subtotal	**16**

Spring

SPED 105: Special Education History and Law	3
General Education Elective: ENGL 188	3
General Education Elective: BIOL 105	3
General Education Elective: MATH 205	3
General Education Elective: HIST 111	3
Fitness Elective	1
Subtotal	**16**

Sophomore Year

Fall

SPED 201: Assessment and Evaluation	3
SPED 214: Positive Behavior Support	3
General Education Elective: MATH 110 General Statistics	3
General Education Elective: POLS 211	3
Major Concentration #1	3
General Education Elective: Humanities (Fine or Perf. Arts, Foreign Language or Philos.)	3
Subtotal	**18**

Spring

SPED 215: Instructional Planning	3
SPED 244/PSED 244: Adolescent Psychology	3
General Education Elective: ENGL 190	3

General Education Elective: MATH 130 (Math, SS, Eng. Con.) or GE: MATH 135: (Science con only)	3
General Education Elective: CHEM 115	3
Major Concentration #2	3
Subtotal	**18**

Junior Year (Co-Department Admittance)

Fall

SPED 314: Instr. Strats. Students w/Low Incid. Disab.	3
General Education Elective: PHYS 105	3
General Education Elective: ECON 111	3
General Education Elective: GEOG 120	3
Major Concentration #3	3
Major Concentration #4	3
Subtotal	**18**

Spring

SPED 313: Instr. Strats. Students w/High Incid. Disab.	3
REED 340: Teaching Reading in the Middle School	3
ELED 350: Teaching Methods in Middle School	3
General Education Elective: Humanities(Fine or Perf. Arts, Foreign Language or Philosophy)	3
Major Concentration #5	3
Major Concentration #6	3
Subtotal	**18**

Senior Year

Fall

REED/SPED 315: Scaff. Lang. & Literacy for Students w/Disab.	3
SPED 351: Collaboration for Inclusion	3
REED 350: Teaching Reading to Communities of Div.	3
ENGL 412: Teaching of Writing in the Secondary	3
ELED 450: Seminar in Middle Level Methods	3
General Education Elective: Humanities: (Fine or Perf. Arts, Foreign Language or Philos.)	3
Subtotal	**18**

Spring

ELED 431: Student Teaching in Middle Level Education	6
PSED 430: Student Teaching in Secondary, Middle School and Jr. High School	6
____499 1 credit in area of concentration (HIST 499, ENG 499, PHYS 499, or MATH 499)	1
Subtotal	**13**
Total Credits	**135**

Teacher education program requirements have been changed to reflect new certification rules for students applying for certification after December 31, 2012.

For more information, contact the department by calling 570-422-3558 or visit www.esu.edu/sped.

Department Admissions

Please refer to the section *The College of Education* in this catalog for specific requirements for admission into teacher education. Majors should meet regularly with their academic adviser in order to discuss and monitor major requirements and procedures for admission into each program. Information on requirements and procedures on admittance are available in the Department Student Handbook available in the department office.

Student Teaching

Two semesters of student teaching are required for certification in SPED. Students must have a 3.0 or higher GPA *prior to* graduation from ESU to be certified in the State of Pennsylvania.

Faculty

Professors:

Teri Burcroff (tburcroff@po-box.esu.edu)

Domenico Cavaiuolo (dcavaiuolo@po-box.esu.edu)

Diane Cavanagh (cavanagh@po-box.esu.edu)

Gina Scala, Chair (gscala@po-box.esu.edu)

Daniel Steere (dsteere@po-box.esu.edu)

Associate Professor:

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Assistant Professor:

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Course Descriptions

SPED 105 Special Education History and Law (3)

The purpose of this course is to develop a foundation of understanding of the past and present perspective of individuals with disabilities and how this history had led to special education legislation and law. The course will develop knowledge about the nature and needs of learners with exceptionalities and their families, recognition of the existing and emerging models of services and the educational law supporting the individual's rights to an appropriate education. All students are required to complete 20 hours of field experience. Proof of appropriate clearances is required. Prerequisite: PSED 150

SPED 201 Assessment and Evaluation in Special Education (3)

This course emphasizes the legal, ethical and procedural issues involved in the assessment process in special education. Basic measurement procedures, the referral to placement process, administration of formal/informal measures, and instructional planning concepts in general and special education will be addressed. Prerequisite: SPED 105.

SPED 210 Learning Disabilities: Theory into Practice (3)

This course considers service delivery options, etiologic factors, and characteristics of students with specific learning disabilities. Metacognitive approaches to diagnosis and intervention are explored with emphasis on adapting instruction for diverse learning styles of individuals with learning disabilities in general and special education settings. Prerequisite: SPED 105.

SPED 214 Positive Behavior Support (3)

This course addresses all elements of effective classroom management which emphasizes behavior reduction strategies that are consistent with a positive behavioral support approach. All elements of conducting a functional assessment in developing a behavioral support plan for school and/or employment settings are addressed. (Cross-listed with SPRE 214.) Prerequisite: SPED 105.

SPED 215 Instructional Planning in Special Education (3)

This course addresses the planning process for students with high and low incidence disabilities and gifted and talented for multiple school settings within the continuum of services. Lesson planning, unit planning, IEP/IFSP planning and writing are key elements developed in this course with an emphasis on collaboration with other teaching and non-teaching staff members. Students are required to participate in an on-campus tutoring. Prerequisite: SPED 105, 201, 214.

SPED 290 Special Topics (Semester hours arranged)

These courses address the needs of groups of students or are offered on a trial basis in order to determine the demand for and the value of introducing them as a part of the university curriculum.

SPED 311 Etiology and Diagnosis of Individuals with Exceptionalities (3)

This course is a study of the causative factors of high and low incidence atypical cognitive, physical, psychological, medical and psychosocial conditions of children and adults. Emphasis is placed on the development of diagnostic skills and the recognition of diagnostic criteria in the clinical setting. Collaboration and teaming in the clinical, classroom and service agency are examined. Prerequisite: SPED 105.

SPED 313 Curriculum and Instruction for Students with High Incidence Disabilities (3)

This course addresses curriculum development and instructional approaches for students with high incidence disabilities, with an emphasis on academic and behavioral education in multiple school settings within the continuum of services. Students will apply a systematic approach to planning and delivery of instruction, which includes assessment data to create instructional programs within the general curriculum, comprehensive evaluation strategies, and generating instructional decisions based on assessment and performance data. Students choose, evaluate and construct instructional materials. There are 15 hours of fieldwork which are required. Prerequisite: SPED 105, 201, 214, Department Screening.

SPED 314 Curriculum and Instruction for Students with Low Incidence Disabilities (3)

This course addresses curriculum development and instructional approaches for students with significant, low incidence disabilities, with an emphasis on functional education in school and community based settings. Students will apply a systematic approach to planning and delivery of instruction, which includes person centered planning and general case instruction. 15 hours of fieldwork is required. Prerequisite: SPED 105, 201, 214, Department Screening.

SPED 315 Scaffolding Language and Literacy Development for Students with Disabilities (3)

This course, which is cross-listed as REED 315, prepares pre-service special education teachers to provide effective literacy instruction to students with mild to severe language, reading, and writing disabilities. The course emphasizes research-based assessment and instructional techniques that scaffold the development of language and literacy skills for students with disabilities. IEP elements related to assessing skills, planning goals, and monitoring progress for students with language and literacy disabilities, elements related to their Individualized Education Plans (IEPs) are featured. This course is required for students seeking certification in Special Education. Prerequisites: SPED: All required 100 and 200 level SPED courses; PREK-4th Program: REED 314; Middle School Program: REED 340 and prior or concurrent enrollment in REED 350; Professional and Secondary Education Program: Prior or concurrent enrollment in REED 350; Speech-Language Pathology: SPPA 105.

SPED 351 Collaboration for Inclusion (3)

This course examines research-based effective practices that promote successful inclusion for students and adults in school and community settings. The course will also explore the functions of collaboration and consultation with co-teachers and other school personnel. Collaboration, co-teaching, cooperative learning, adaptations/modifications, differentiated instructional delivery models and practical philosophical approaches to collaboration for inclusion are explored as well as legal and ethical issues related to inclusive practices will be explored. Weekly field experiences in a Professional Development School will emphasize the application of course content and instructional theories to teaching. Prerequisites: All Sped/Integrated/area of concentration students must complete all required 200 level classes as well as department screening prior to enrollment. Non-major students must have permission of instructor.

SPED 420 Student Teaching in Special Education - Part I (12)

This course entails fifteen weeks of guided teaching of individuals with exceptionalities. Prerequisite: Departmental approval which is obtained when all requirements described under the Student Teaching section in this catalog have been completed, a minimum of 2.8 cumulative average in the major.

SPED 421 Professional Practicum I (2)

The Professional Practicum meets on a regularly scheduled basis. On-site seminars may be conducted by the university supervisor, including the presence of all on-site or neighboring-site student teachers. The topics governing the content of each Practicum session are representative of immediate student teacher needs regarding his/her professional growth and development. Corequisite: SPED 420.

SPED 430 Student Teaching in Special Education - Part II (12)

This course entails fifteen weeks of guided teaching of individuals with exceptionalities. Prerequisite: Departmental approval which is obtained when all requirements described under the Student Teaching section in this catalog have been completed, a minimum of 2.8 cumulative average in the major.

SPED 431 Professional Practicum II(1)

The Professional Practicum meets on a regularly needs basis. On-site seminars may be conducted by the university supervisor, including the presence of all on-site or neighboring-site student teachers. The topics governing the content of each Practicum session are representative of immediate student teacher needs regarding his/her professional growth and development. Corequisite: SPED 430.

SPED 452 Together: Mainstreaming in the Schools (3)

The purpose of the workshop is to cause meaningful interaction of special and regular education teachers. The interaction will enable them to review and to develop positive models for their particular schools that allow for exceptional and non-exceptional children to learn together, to respect each other, to know each other. A major emphasis will be devising through group interaction, a plan for implementation of mainstreaming in the particular schools. Since this course is also offered for graduate credit, a differentiation in

requirements may be made. The course is cross-listed with ELED 452 or PSED 452. Prerequisites: Upper division standing, SPED 105.

SPED 453 Creative Materials and Methods with Exceptional Individuals (3)

This course is offered for graduate or undergraduate credit. At the undergraduate level this course is designed for pre-professionals and paraprofessionals training to work with individuals with severe and multiple disabilities in the classroom or in a rehabilitative setting. Emphasis is on the construction and use of free and inexpensive household, institutional, and classroom resources for use with regular teaching materials.

SPED 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis.

SPED 486 Field Experience and Internship (14) (Semester hours arranged)

This course consists of at least one field experience placement with populations having physical or mental disabilities in various agencies, developmental centers, rehabilitation facilities, and the like that serve the needs of that population throughout the tri-county area. Assignments in other geographical areas will be utilized by the department when deemed appropriate. Field experience supervision will be provided by the faculty of Special Education and Rehabilitation.

Speech-Language Pathology

College of Health Sciences

The Faculty of Health Sciences
LaRue Hall
570-422-3247.....www.esu.edu/sppa

About the Program
Speech-language pathologists assist people with communication disorders by improving their quality of life.

ESU's Department of Speech-Language Pathology offers students the opportunity to earn a preprofessional degree. Upon completion, students **must** pursue a master's degree before gaining employment as a certified speech-language pathologist. Graduates of ESU's master's degree program have many employment opportunities.

Students are given an education plan upon entering the program; they are assigned an adviser who will assist them throughout their bachelor's degree program. Students must maintain at least a 3.0 cumulative average and major average.

The Department of Speech-Language Pathology is housed in LaRue Hall. The LaRue Hall Speech and Hearing Center, is a fully operational clinic. It features all of the equipment and accommodations essential to a quality educational program in speech-language pathology. Graduate students are able to gain hands-on experience with people who exhibit various types of communication disorders. The clinic serves people of all ages, infancy through adult, from the surrounding Pocono area, the Lehigh Valley and New Jersey, as well as students and faculty/staff from ESU who are in need of rehabilitation/habilitation services. LaRue Hall has several observable therapy rooms, and all the necessary materials and resources for conducting therapy.

Are you interested in...
- Working with people
- Helping others

Choose Speech-Language Pathology at ESU
- Small class size
- Qualified, experienced faculty
- Practical field experience

Is speech-language pathology a career path for me?

Career Potential
- Speech-language pathologist

Career Settings
- Public and private schools
- Hospitals
- Rehabilitation centers
- Short-term and long-term nursing
- care facilities
- Community clinics
- Colleges and universities
- Private practice
- State and local health departments
- State and federal government agencies
- Home care
- Adult day care centers
- Centers for persons with developmental disabilities
- Research laboratories
- Institutes and private agencies

More detailed career information is available from the department.

Bachelor of Science in Speech-Language Pathology

Program Features:

39 Semester Hours
- **Required major courses:** SPPA 101, 113, 121, 214, 231, 312, 331, 341, 342 on page 310, 361, 414, 457. Three additional credits from SPPA 321, 335, or 423
- **Corequisite courses:** Choose one of: BIOL 105, 111, or 114; CPSC 100 or 103; MATH 100 or 101, and MATH 110; PHYS 101 or 110; ELED 232 or PSY 225; PSY 302, 311; SOC 331; BIOL 420, REED 315
- Please see the university requirements in this catalog.
- To enroll in the clinical portion of the program, students must present evidence that they passed the HIPAA confidentiality exam. They must also have a current (within a year) TB test, and Acts 34 (criminal record) and 151 (child abuse) clearances and an FBI clearance. These clearances may be required earlier for observation purposes.

Academic Criteria:
- All incoming students (freshmen, transfers, etc.) must meet with the department chair to set up their education plan leading to admission into the clinical portion of the SPPA program.
- All transfer students, both ESU and other institutions, must have a 3.0 cumulative quality point average to declare SPPA as their major. Transfer students will work with the department chair on an individual basis to set up education plans that can be completed in a timely manner.
- Students are required to maintain a 3.0 overall GPA as well as a 3.0 GPA in the major. Any students falling below a 3.0 will receive a warning letter. After two semesters below the 3.0, the student will be dismissed from the major. Specific information about this topic is included in the student's curriculum guide.
- Admission to the clinical portion of the program is required for approval to enroll in SPPA 342 on page 310, 414, and 457.
- An information booklet describing specific program requirements can be obtained from the department chair.
- At least 24 of the required 33 credits in SPPA must be taken at ESU, including all courses above the 100 level, unless waived by the department chair.

Accreditation

ESU's graduate program in Speech-Language Pathology is accredited by the Council on Academic Accreditation of the American Speech-Language Hearing Association.

Professional Organizations
The department has an active chapter of the National Student Speech-Language/Hearing Association, we also have a Sign Language Club. Student members participate in many service learning activities, including visiting local nursing homes, doing projects with the Mekeel Child Care Center on campus and participating in some social events as well.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

SPPA 121: Introduction to Comm Disorders	3
ENGL 103: English Composition	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SPPA 101: Speech & Language Development	3
SPPA 113: Phonetics	3
PSY 100 GE: General Psychology	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

SPPA 214: Anatomy & Physiology Bases	3
BIOL 111: Human Anatomy and Physiology	4
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

SPPA 312: Speech Science	3
SPPA 341: Language Disorders	3
PSY 225 or ELED 132	3
General Education Elective	3
General Education Elective - Group A	3
Subtotal	**15**

Junior Year

Fall

SPPA 231: Introduction to Audiology	3
SOC 331: Sociology of Aging & the Life Course	3
Fitness Elective	1
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**16**

Spring

SPPA 361: Psycholinguistics	3
SPPA 321: Communication & Aging	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

SPPA 342: Articulation and Fluency	3
REED 315:Scaffolding Language & Literacy Development for Students with Disabilities	3
PSY 302 or 311 or BIOL 420	3 or 4
SPPA 331: Assistive Technology for the Hard of Hearing	3
General Education Elective	3
Subtotal	15-16

Spring

SPPA 414: Neurologic Bases of Comm	3
SPPA 457: Introduction to Clinic Practicum	3
MATH 110 GE: General Statistics	3
Fitness Elective	1
General Education Elective	3
General Education Elective	3
Subtotal	**16**
Total Credits	**120**

For more information, contact the department by calling 570-422-3247

Sample Pre-Entry Curriculum Plan for Transfer Student

(Subject to change by the university without notice)

Freshman Year

Fall

English Composition	3
Human Anatomy & Physiology with lab	4
American History	3
Math	3
Fine Arts	3
Subtotal	**16**

Spring

Speech Communications	3
Statistics	3
General Psychology	3
Political Science	3
Philosophy or Foreign Language	3
Fitness Elective	1
Subtotal	**16**

Sophomore Year

Fall

PC's & Their Uses	3
Sociology	3
English Literature	3
Child Development or Psychology	3
Elective	2-3
Subtotal	**14-15**

Spring

Physical Science	3
Geography	3
Social Science	3
Performing Art	3
Fitness Elective	1
Subtotal	**13**

Sample Curriculum Plan for Transfer Student

(Subject to change by university without notice)

Junior Year

Fall

SPPA 121: Introduction to Communication Disorders	3
SPPA 113: Phonetics	3
SPPA 214: Anatomic & Physiologic Bases	3
SPPA 231: Introduction to Audiology	3
General Education Elective	3
Subtotal	**15**

Spring

SPPA 101: Speech and Language Development	3
SOC 331: Sociology of Aging and the Life Course	3
SPPA 312: Speech Science	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Senior Year

Fall

SPPA 342 on page 310: Articulation and Fluency	3
SPPA 331: Assistive Technology for the Hard of Hearing	3
REED 315: Scaffolding Language and Literacy Development for Students with Disabilities	3
General Education Elective or major elective	3
General Education Elective	3
Subtotal	**15**

Spring

SPPA 341:Language Disorders & Differences Across the Life Span	3
SPPA 414: Neurologic Bases of Communications	3
SPPA 457: Introduction to Clinical Practice	3
PSY 302 or 311 or BIOL 420	3
General Education Elective	3
Subtotal	**15**
Total Credits	**120**

*This plan assumes a student transfers to ESU with 60 General Education Credits distributed over the appropriate requisite and prerequisite areas.

For more information, contact the department by calling 570-422-3247.

LaRue Hall 570-422-3247 www.esu.edu/sppa

Faculty

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Course Descriptions

SPPA 101 Speech and Language Development (3)

This course is a study of normal development of speech and language in the child, the structure of language as it pertains to expression and content, and the psychological and physiological bases of language.

SPPA 113 Phonetics (3)

This course is an analytic study of speech sounds, the normal production of speech sounds and the symbols of the International Phonetic Alphabet, and analysis of defective speech sounds and study of articulation testing.

SPPA 121 Introduction to Communication Disorders (3)

This course is a survey of etiology, methods of evaluation, and treatment of speech disorders, with emphasis on the understanding of the individual client and remedial procedures for articulation cases.

SPPA 131 Introduction to Sign Language (3)

This course is designed to introduce the student to sign language and total communication. Its purpose is to provide practice in learning a core sign language vocabulary and basic sentence structure. This course will cover topics including the history of sign language, the history of deaf education and how sign language is used with deaf, hard of hearing, developmentally delayed and other individuals needing alternate modes of communication. This course does not satisfy any SPPA major or elective requirements.

SPPA 214 Anatomic and Physiologic Bases of Speech (3)

This course is a study of the anatomy and physiology of the head, neck, and trunk as it relates to speech. The processes of respiration, phonation, resonation, and articulation are examined in detail.

SPPA 231 Introduction to Audiology (3)

This course is a survey of the etiology, symptomatology, and management of peripheral hearing problems in children and adults, a study of audiometric testing, and an investigation of the role of the parent, educator, and specialists in the total rehabilitative effort.

SPPA 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

SPPA 312 Speech Science (3)

This course will provide an understanding of the principles of speech production and reception. Students will be introduced to the basic principles of sound as they related to theories of voice production, the acoustic theory of speech production, linguistic organization, acoustic characteristics of the speech signal, basic instrumentation and basic research issues. Prerequisites: SPPA 113.

SPPA 321 Communication and Aging (3)

This course is an introduction to the communication characteristics of older adults. Emphasis is placed on the changes in speech, language, voice, fluency, and hearing that are expected with normal aging, as well as the common disorders encountered in this age group. Students are expected to demonstrate a basic understanding of these characteristics, practical techniques to compensate for resulting communication problems, and when and to whom to make referrals if further testing/therapy is needed. A service learning project will be required.

Prerequisites: Advance standing of 60 credits. (Completion of an SPPA course, or a course in the Gerontology Concentration.)

SPPA 331 Assistive Technology for the Hard of Hearing (3)

In this course, students will study assistive technology's role in providing expressive and receptive communication access to those with hearing disorders. Topics covered will include how hearing loss affects communication, the American with Disabilities Act, available technology, verification and validation procedures, and how to perform a needs assessment. Prerequisites: SPPA 231.

SPPA 341 Language Disorders & Differences Across the Life Span (3)

This course is the study of language acquisition and how it may falter. The causes of language disorders & differences across the life span will be discussed. Topics such as developmental disorders, autism spectrum disorders, English Language Learner differences and delays, cerebral vascular accidents and traumatic brain injuries will be covered. Discussion of the diagnosis and remediation of these disorders will be included. Prerequisites: SPPA 101, SPPA 113, SPPA 121.

SPPA 342 Articulation and Fluency Disorders (3)

This course is a study of the causes, symptoms, evaluation and management of articulation and fluency disorders. Prerequisites: SPPA 113, 121

SPPA 335 Advanced Sign Language (3)

This course seeks to explore advanced skills and knowledge of American Sign Language. Its purpose is to enhance and expand previously acquired sign language skills. Students will analyze and evaluate various manual communication systems and their impact on deaf culture. Advanced conversational skills will be emphasized. This course does not satisfy any SPPA major or elective requirements. Prerequisites: SPPA 113 or permission of instructor.

SPPA 361 Psycholinguistics (3)

This course is designed to familiarize students with the structure of language and linguistic phenomena. They will learn how language is processed by the brain and the bases of psycholinguistics, i.e., the acquisition, storage, comprehension and production of language. Prerequisites: SPPA 101, 113, 214.

SPPA 414 Neurologic Bases of Communication (3)

This course is a study of the neurologic control of communication, including language, speech, and hearing; and the neurologic control of swallowing. Neuropathologies associated with communication disorders and swallowing disorders are introduced. Prerequisites: SPPA 214, 241, 342 on page 310, and formal admission to the clinical portion of the program.

SPPA 423 Multicultural Issues in Speech-Language Pathology (3)

This course will focus on identification, assessment, intervention and prevention of communication disorders in diverse linguistic and cultural populations including all age groups. Prerequisites: SPPA 101 and 113 or 121; SOC 102 or 111.

SPPA 457 Introduction to Clinical Practice (3)

This course is designed to introduce SPPA majors to the clinical aspects of the profession of a Speech-Language Pathologist. They will learn the requirements for entry into and maintaining membership in this field. They will have clinical experiences in a variety of settings. Prerequisites: SPPA 241, 342 on page 310, formal admission to SPPA Department, completion of 25 hours of therapy observation.

SPPA 485 Independent Study (Semester hours arranged)

The student is expected to submit a written request for Independent Study to the individual instructor and to include a prospectus of his/her proposed work. These may be research projects, advanced or specialized clinical methods, or in-depth study of a particular topic. Work may be done for one, two, or three credits as arranged with the instructor. Prerequisites: SPPA 231, 342 on page 310.

SPPA 486 Field Experiences and Internship (Semester hours arranged)

Sport Management

College of Business and Management

The Faculty of Sport Management
Zimbar/Koehler Fieldhouse
570-422-3495.....www.esu.edu/smgt

About the Program
The Department of Sport Management offers a bachelor of science degree with a major in Sport Management. This program prepares students for professional careers in the sports management industry. The program provides students with many options and considerable flexibility in course selection, depending on interest and goals. Course offerings are extensive and there are opportunities for internships in professional sports, college athletics, amateur and Olympic athletics, and recreation sport.

Sport Management Club
The Sport Management Club convenes sport management undergraduate and graduate students to exchange ideas, promote sport management, advance the professional interests of its members, and foster a closer relationship among its members and with other campus groups.

Are you interested in...
- Sports
- Working with others

Choose Sport Management at ESU
- Expert, experienced faculty
- Guest speakers from the world of sports business
- Off-campus internship experience
- Sport Management Club

Is Sport Management a career path for me?

Career Potential
- Stadium / arena management
- Team / league management
- Sport marketing

Career Settings
- Professional sport teams and leagues
- School athletic departments
- College recreation centers

More detailed career information is available from the department.

Bachelor of Science with Sport Management Major

53 semester hours

- **Corequisites:** (18 credits total): ECON 111; ECON 112; MGT 200; MGT 204; choose two (2) CMSTs from: CMST 111, CMST126, CMST 235, CMST 253.
- **Additional requirements:** Upon completion of the above prerequisites:
  1. Students transferring into the program (on campus) must have a 2.5 overall quality point average and all grades "C" or better in major and corequisites.
  2. SMGT 201 and all corequisites must be completed with a "C" or better before 60 credits.
  3. Approval of Sport Management faculty as indicated by appropriate signatures on Sport Studies contract by completion of 60 credits.
  4. Students majoring in Sport Management must fulfill the FIT requirements.
  5. Sport management majors must attain an overall quality point average and a major point average of 2.5 for enrollment in SMGT 486 (internship) and graduation.
- **Required Theory courses**: (41 credits) SMGT 201, 302, 304, 346, 347, 408, 409, 440, 445, 447, 486 (12 credits).
- **Elective courses:** (9-12 credits) SMGT 209, 327, 402, 404, 405, 406.
- Please see the university requirements in this catalog.

Program Curriculum Plan

(Subject to change by the university without notice)

Freshman Year

Fall

MGT 200 Principles of Management	3
CMST Corequisite (111, 126, 235, or 253)	3
ENGL 103 English Composition	3
ECON 111 GE: Principles of Macroeconomics	3
General Education Elective	3
Subtotal	**15**

Spring

SMGT 201 Foundations in Sport Management	3
CMST Corequisite (111, 126, 235, or 253)	3
ECON 112 GE: Principles of Microeconomics	3
MGT 204 Principles of Marketing	3
General Education Elective	3
Subtotal	**15**

Sophomore Year

Fall

SMGT 201 Foundations of Sport Management	3
MGT 204 Principles of Marketing	3
General Education Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Spring

SMGT 302 Psychosocial Aspects of Activity	3
SMGT 346 Computer Applications	3
Sport Management Elective	3
General Education Elective	3
General Education Elective	3
Subtotal	**15**

Junior Year

Fall

SMGT 304 Historical Aspects of Sport	3
SMGT 347 Introduction to Sport Law	3
SMGT 408 Financing Sport Operations	3
Sport Management Elective	3
General Education Elective	3
Fitness Elective	1
Subtotal	**16**

Spring

SMGT 409 Concepts of Sport Marketing	3
SMGT 445 Organization and Administration of Physical Education	2
Sport Management Elective	2
Sport Management Elective	3
Sport Management Elective	3
Fitness Elective	1
Subtotal	**14**

Senior Year

Fall

SMGT 440 Contemporary Sport	3
SMGT 447 Sport Facilities	3
Sport Management Elective	3
General Education Elective	3
General Education Electives	3
General Education Elective	3
Subtotal	**18**

Spring

SMGT 486 Field Experience and Internship	12
Subtotal	**12**
Total Credits	**120**

For more information, contact the department by calling 570-422-3495 or e-mail Department Chair Dr. Frank M. Pullo at fpullo@po-box.esu.edu.

Department of Sport Management 570-422-3495 www.esu.edu/smgt

Faculty

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Course Descriptions

SMGT 100 Introduction to Movement Studies and Exercise Science (3)

This course is designed to enable the student to understand movement studies and exercise science as fields of academic study, programs, and professional applications and to discriminate among these contexts and relate them by applying relevant knowledge and appropriate theoretical perspectives. Students will demonstrate the intrapersonal and interpersonal skills important for becoming a professional.

SMGT 108 Athletic Coaching Education (1)

This survey course is designed to present the basic principles of coaching. The American Sport Education Program (ASEP) format will be followed. Upon successful completion of this course, the student will receive an ASEP leader level coaching diploma. This course is open to all students, regardless of major.

SMGT 109 Sport Officiating Fundamentals (2)

This course is designed to provide the student with knowledge and understanding of the rules and procedures for officiating sport contests. Also included are the general and psychological aspects of the roles of sport officials in either the interscholastic and/or intercollegiate levels of competition.

SMGT 120 Physical Conditioning (1)

This course provides for development of programs of exercise and activity and individual assessment of status, needs, and goals and is designed to enable each individual to determine realistic goals for his/her development and the use of activity throughout his/her life.

SMGT 121 Aerobic Fitness Activities (1)

This course is designed to introduce the student to the various aerobic fitness activities for adult populations. Techniques of fitness assessment, aerobic dance, jogging and aquacizing activities will be emphasized.

SMGT 122 Strength Training (1)

This course is designed to give the student a broad background in the area of strength training. Various strength training programs, techniques, and trends will be examined. Students will have the opportunity to set up and become involved in various strength-training methods. Recommended prerequisite: SMGT 120

SMGT 201 Foundations in Sport Management (3)

This course is designed to present an overview of the structure of the sport industry, as well as issues facing sport organizations and how management techniques can be applied to solve sport business problems. A description of career opportunities in sport will be presented with special interest in helping the student design a course of study that best meets his/her goals. The development of effective communication skills will be emphasized through class presentations and written assignments. Prerequisite: SMGT 100; MGT 200; ECON 111, 112; CMST 111 or CMST 126; 2.5 GPA in major and overall; a major in sport management.

SMGT 209 Principles of Coaching (3)

This course is designed to provide insight into the coaching profession. It will examine the many facets of the area and provide suggested guidelines for prospective coaches to use in establishing their own style and method of coaching.

SMGT 286 Early Internship (1 to 3 credits)

This experience enables a student to explore the role of a professional in a sport fitness or rehabilitation setting under the close supervision of a work-site supervisor. Prerequisites: 30 semester hours; 2.0 QPA; department approval.

SMGT 290 Special Topics (Semester hours arranged.)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

SMGT 302 Psychosocial Aspects of Activity (3)

This course analyzes movement activities as psychosocial phenomena, including consideration of the symbolic and cultural nature of movement forms within a framework of human personality, motivation, and social values and organization. Prerequisite: SMGT 201.

SMGT 304 Historical Concepts of Movement and Sport (3)

This course considers important themes, chronology, and biography in the study of the history of movement, sport, and physical education in the United States. Prerequisite: SMGT 201 and advanced standing of 60 credits.

SMGT 327 Stress Management in Exercise and Sport (2)

This course concerns the occurrence of stress in relation to exercise and sport settings, the potential for movement forms to serve as stress reducers, and other factors involved in stress and stress management. In laboratory experiences attention will be given to learning relaxation skills and leading others in relaxation and other stress reduction activities.

SMGT 346 Computer Applications in Movement Studies and Exercise Science (3)

This course is designed to acquaint the student with computer applications in sport management. Applications are discussed in light of their use in sport-related areas. Prerequisites: SMGT 201; 15 credits in SMGT.

SMGT 347 Introduction to Sport Law (3)

This course is designed to address an increasing need for sport managers to be aware of the legal implications of their managerial performance. This course will provide an introduction to the legal issues facing those in the sports industry. Prerequisites: SMGT 201 and MGT 200.

SMGT 370 Basketball Officiating (1)

The rules and procedures for officiating basketball will be the focus of the course; officiating in both practice and actual contests will be included. Prerequisites: PETE 170 or permission of instructor, SMGT 109 or concurrent enrollment.

SMGT 371 Field Hockey Officiating (1)

The rules and procedures for officiating field hockey will be the focus of the course; officiating in both practice and actual contests will be included. Prerequisites: PETE 171 or 271 or permission of instructor, SMGT 109 or concurrent enrollment.

SMGT 374 Soccer Officiating (1)

The rules and procedures for officiating soccer will be the focus of the course; officiating in both practice and actual contests will be included. Prerequisites: PETE 174 or 274 or permission of the instructor, SMGT 109 or concurrent enrollment.

SMGT 377 Wrestling Officiating (1)

The rules and procedures for officiating wrestling will be the focus of the course; officiating in both practice and actual contests will be included. Prerequisites: PETE 177 or 277 or permission of the instructor, SMGT 109 or concurrent enrollment.

SMGT 380 Baseball-Softball Officiating (1)

The rules and procedures for officiating baseball-softball will be the focus of the course; officiating in both practice and actual contests will be included. Prerequisites: PETE 180, 181 or 280, 281 or permission of the instructor, SMGT 109 or concurrent enrollment.

SMGT 385 Volleyball Officiating (1)

The rules and procedures for officiating volleyball will be the focus of the course; officiating in both practices and actual contests will be included. Prerequisites: PETE 185 or 285 or permission of instructor, SMGT 109 or concurrent enrollment.

SMGT 402 Psychology of Sport and Exercise (3)

This course provides a broad overview for understanding the behavior of individuals in sport and exercise and focuses specific attention on the major sport and exercise concerns related to a psychological perspective. Content areas include personality and motivation factors, performance in groups, enhancing sport performance, and the psychological effects of participation in sport and exercise. Prerequisites: Differs dependant of major: SMGT: SMGT 201, 302; PSYC: two psychology courses; EXSC: advanced standing of 75 credits; others by permission of instructor.

SMGT 403 WS: Women, Sport and the Body (3)

This course examines women's socialized attitudes toward movement and the body and their participation and roles in sport at diverse levels of competition and organization; reference is accorded psychological data, legal provisions, and social factors as these are particularized for women. Prerequisites: 90 semester hours and/or SMGT 100, 302.

SMGT 404 Philosophical Concepts of Movement and Sport (3)

This course concerns the philosophical problems and questions central to movement and to the movement experience, the comparison of Eastern and Western views relevant to movement, and ethical questions are considered. Attention is also directed to the implications of particular views for both performance and professional roles. Prerequisites: SMGT 201, 302, 304 or concurrent.

SMGT 405 Comparative and International Issue in Sport and Physical Activity (3)

This course studies form, regularity, and explanation of physical activity and sport in selected countries compared with the United States. It examines comparative strategies which can be used to answer questions or test hypotheses about international and international problems related to physical activity and sport. Prerequisites: SMGT 201, 302

SMGT 406 Theory and Techniques of Coaching (3)

This course is designed to provide an overview of the theories and strategies necessary to become a successful coach. The welfare of the athlete will be the primary focus. Sport areas covered will be philosophy, pedagogy, physiology, medicine, and management. Prerequisite: 96 credits.

SMGT 408 Financing Sport Operations (3)

This course is designed to present an analysis of financial concepts and theories and their application in the professional, intercollegiate,

recreational, and commercial sport industries. Topics include revenues and expenses of professional, intercollegiate, and private sport industries, issues affecting these revenues and expenses, fundraising at the intercollegiate level, ownership in sport, and public and private funding for non-profit sport programs. Prerequisites: SMGT 201, ECON 112, and MGT 200.

SMGT 409 Concepts of Sport Marketing (3)

This course is designed to build on the basic understanding of mainstream marketing concepts and apply such concepts in the sport setting. Doing so entails both comparison and contrast of mainstream marketing practices with sport marketing practices. Lectures and readings will examine the application of marketing principles to collegiate and professional sport, special events, international sport, broadcasting, and facility management. Sport marketing cases will require students to critically analyze business situations and recommend and support business decisions. Prerequisites: SMGT 201, ECON 112, MGT 200.

SMGT 440 Contemporary Sport (3)

This course is designed to enable the student to recognize sport as a phenomenon and social institution and to analyze the theoretical implications of sport in the contemporary world in relation to actual contexts and existing structures as they have developed and been modified in the twentieth century. Prerequisites: SMGT 201, 302, & 304 and advanced standing of 90 credits.

SMGT 445 Organization and Administration of Physical Education (2)

This course is designed to enable the student to demonstrate ability to utilize accepted practices of administering physical education programs as well as intramurals, clubs, and interscholastic sport. It includes in-depth analysis of administrative concepts as they relate to practice. Prerequisites: SMGT 100; 201 and completion of 75 credits; for teacher certification students: PETE 100 and 400 (or concurrent registration in 400) and admission to HP-CTPE.

SMGT 447 Sport Facilities (3)

The principles and applications of facility design, maintenance and event management as they apply to indoor and outdoor sport facilities will be analyzed. Students will review existing sport facilities and complete related assignments. Prerequisites: SMGT 201, 445 and advanced standing of 90 credits.

SMGT 460 Analysis of Gymnastics I Workshop (3)

A critical analysis of biomechanical principles as they apply to both gross and fine gymnastic movement patterns will be studied. Additional emphasis will center around a presentation and analytic techniques specific to maximum realization of motor performance. Further research will be directed toward practical application of all research relevant to the gymnastic discipline. Both lecture-demonstration and seminar methods of instruction will be employed. Prerequisites: PETE 160, 260 or equivalent.

SMGT 461 Analysis of Gymnastics II Workshop (3)

A quantitative analysis of biomechanical principles as applied to both gross and fine gymnastic movement patterns. Additional emphasis centers on a critical review of the research relevant to the gymnastic discipline. Both lecture-demonstration and seminar methods of instruction are employed. Prerequisites: PETE 160, 260, 360 or equivalent.

SMGT 485 Independent Study (Semester hours arranged)

This course deals with independent research and study under the direction of a faculty member and is designed to deepen the student's interest in a particular area of an academic field. The directing faculty member will be available exclusively to the student for a minimum of five hours per credit. Approval for enrollment must be obtained from the faculty member and from the Department chair. Approval and granting of credit must be in accordance with procedures and standards established by the departmental faculty. The student must present a study prospectus prior to approval. Prerequisites: SMGT 100, 15 credits in SMGT.

SMGT 486 Field Experiences and Internships (12) (Semester Hours Arranged)

A. The sport management internship will provide the student an opportunity to learn while applying their skills working with people n high school, college, private or professional settings. All sport management internship sites must be approved by the department faculty. Each application for an internship must be approved by the faculty member in charge of the experience. The director/supervisor of the site where the internship will be done, and the department chair. Application deadlines are October 15 for spring semester internships and March 15 for fall and summer internships. Prerequisites: Faculty recommendations on qualities essential for success in the assigned environment. Successful completion of 90 semester hours of credit. No incomplete grades in any required courses. A minimum average of 2.5 overall in the major.

Theatre

College of Arts and Sciences

The Faculty of Arts and Letters
Fine and Performing Arts Center, Room 207
570-422-3759.....www.esu.edu/theatre

About the Program

The Theatre Department's combined historical, theoretical and applied curriculum develops a wide range of knowledge and practical skills. Theatre studies prepare students for a variety of careers, and enrich many aspects of their lives. The department provides opportunities for individuals to wrestle with the important questions of human existence, including understanding themselves in many diverse and complex global and domestic cultural contexts.

All students receive training in all aspects of theatre, but as they discover their unique abilities and talents, the students will work closely with faculty advisers to tailor their experiences to suit their emerging specialties.

Why Major in Theatre?

- Earn a living doing what you love
- Theatre leads to jobs
- Theatre offers many careers
- Theatre is more than all of that
- Theatre is an art, a vibrant field, a vocation
- Don't spend the rest of your life saying, "I wish I had"...because you can!

Choose Theatre at ESU

- Professionally experienced faculty
- Excellent facilities
- Academic preparation combined with practical application
- Faculty mentoring
- Multiple performance opportunities
- Leadership development
- Study abroad programs
- Acquire key skills sought after by employers in any field.
- Direct exposure to professional theatre in nearby New York City.

Performance Opportunities:

Students of any major are welcome to audition for theatre productions and are invited to participate behind the scenes in design and technical theatre. Auditions are posted on the large bulletin board in the Fine Arts Building Lobby and announced at Stage II and in Theatre classes. Auditions for the first Fall production often take place as early as the first week of school.

Students may audition beginning in their freshman year for roles in Theatre Department mainstage productions and Stage II one act plays. A number of classes also provide performance opportunities through showcases and recitals with no auditions required: Stage and Comic Technique, Children's Theatre, Directing, Advanced Acting (class entry by audition), Collaborative Theatre Workshop, and Senior Seminar.

Theatre productions encompass a range of genres including:

- Classical Theatre,
- Musical Theatre
- Contemporary Theatre
- Theatre for Young Audiences
- Stage II Student produced and directed One Acts

More information is available from the department faculty.

What Programs are offered?

- B.A. Theatre- Acting for Theatre, Television and Film
- B.A. Theatre- Musical Theatre
- B.A. Theatre- Design/Technical Theatre
- B.A. Theatre- Directing
- Minor in Theatre

After appropriate preparation through classes and entry-level experiences, students are invited to take on leadership positions in ESU theatre productions that bolster their resumes and often lead to internships, employment and graduate school opportunities.

Careers in Theatre

Entertainment is one of the biggest exports in the United States. Theatre is one of the biggest industries in nearby New York City. Theatre department alumni are working in arts and entertainment in the United States and internationally, have gone on to excellent graduate programs, and have transferred their skills to related fields.

Artistic

- Director
- Actor
- Artistic Director
- Scenic Designer
- Costume Designer
- Lighting Designer
- Sound Designer
- Make-up Designer
- Multimedia Designer

Teaching

- Theatre Professor
- Acting Teacher
- High School Drama Teacher
- Education Director

Technical

- Technical Director
- Stage Manager
- Costume Shop Manager
- Scenic Carpenter
- Scene Painter
- Master Electrician
- Properties Master

Administrative

- Executive Director
- Producer
- Production Manager
- Publicity Director
- Casting Director
- Agent
- Events Manager

Related Careers
"(Performing arts) producers (and directors) share many responsibilities with those who work as top executives."

U.S. Department of Labor Statistics

Skills shared by top executives and those trained in theatre leadership:

- Highly developed interpersonal skills
- An analytical mind
- Quick assessment of large amounts of information and data
- Evaluation of the relationships between numerous factors
- Clear and persuasive communication
- Ability to meet deadlines under pressure
- Flexibility to adapt to unexpected obstacles
- Leadership, self-confidence, motivation, decisiveness, flexibility, sound judgment, and determination

U.S. Government Occupation Outlook Handbook 2008-9

Bachelor of Arts in Theatre

40 semester hours

- **Required Course in the Major:**
  - **Core Curriculum** (20 semester hours, plus 9 directed GE credits): THTR 100, 102, 103 210, either THTR 101 or 230, 302, 304, 341, 490, and three semester hours selected from theatre studies: THTR 320, 325, 330, 335, 420.
  - **Track I: Acting for Theatre, Television and Film:** (20 Credits- 16 from major and 4 credits of cognates) THTR 127, 211, 202, 360, three semester credits from: THTR 310, 343, or 440, and one additional credit of THTR 103 (beyond core requirement).
  - **Track II: Musical Theatre** (20 Credits- 15 from major plus 5 credits cognates in Music, 2 credits Directed Dance/FIT GE's) THTR 127, 202, 211, 350, three semester credits from: THTR 310, 343 or 440
  - **Track III: Design/ Technical Theatre** (20 Credits- 17 from major, plus 3 cognate credits in Art): THTR 343, two additional credits of THTR 103 (at least one as design assistant or in technical leadership), nine semester hours (at least six must be design courses) from: 240, 301, 331, 332, or 430, and one additional theatre studies course from: 320, 325, 330, 335 or 420.
  - **Track IV: Directing** (20 credits- 17 from THTR, plus 3 cognate credits in MCOM) THTR 343, two additional credits in THTR 103 (at least one as AD, ASM, or SM), six additional acting/directing credits (at least one must be an acting course) from: THTR 202, 310, 440, 486, three credits of design from THTR 301, 331, or 430, and one additional theatre studies course from THTR 320, 325, 330, 335, or 420.
  - **Track V: Fine Arts** (20 credits- 8 from THTR plus six cognate credits in Art and six in Music) two additional credits of THTR 103 (one recommended as dramaturge, AD, SM, ASM), 6 additional Theatre credits from: 320, 325, 330,335, 343, or 420.
- **Required Cognate Courses:**
  - **Core**: None
  - **Track I**: Three semester hours from: MCOM 210, CMST/THTR 163, or CMST 229, one semester hour from Dance from FIT 140, 141, or 142
  - **Track II**: Two keyboard credits chosen from: MUS 110, 111, 160, 161, 260, 261, 360, 361, 460, 461 and three music theory credits from: MUS 101, 220, or 320.
  - **Track III**: Three semester hours in studio Art (by advisement)
  - **Track IV**: Co-requisite: MCOM 210
  - **Track V**: Co-requisite: 6 credits of ART; 6 credits of MUS (at least 3 semester hours be from Fine Arts Music courses).
- **Additional Requirements: Directed GE Courses:**
  - **Core**: 9 credits of directed GEs: One Humanities Fine Art THTR 100, one humanities performing art THTR 210 plus doubling up in either fine or performing art with THTR 101 (PA) or 230 (FA)
  - **Track I**: NONE
  - **Track II**: Two FIT credits in Dance from FIT 140, 141 or 142
  - **Track III**: NONE
  - **Track IV**: NONE
  - **Track V**: NONE
- **Residency Requirement:** A minimum of 12 upper division theatre credits at East Stroudsburg University.

Minor in Theatre

19 semester hours

- **Required Courses:** THTR 100 and 103 (one credit course); one of THTR 101, 102, or 230; one of THTR 310, 343 or 341; one of THTR 211, 301, 332, or 430, one of THTR 302, 304, 420, plus three additional credits from any of the above-listed courses.

Students enrolled in technical theatre courses will gain practical as well as theoretical experience and are required to assist on theatre productions.

Participation in Stage II, the student run theatre club, is strongly encouraged.

Theatre Course Sequences

Notes on Course Planning

- All ESU students are required to take a total of 30 upper division semester credits (300 level or above). The number of upper level credits covered by the B.A. theatre varies by track. Additional upper division courses will be required outside the track requirements and/or outside the major.
- Upper division courses generally require one or more prerequisites and are offered less frequently, so students will need to plan for them.
- Fitness electives particularly recommended for actors include yoga, any dance style, gymnastics, martial arts, or fencing. However, any kind of regular fitness class or program will be helpful.
- Technical theatre courses and children's theatre have a lab component involving work on theatre productions for students to gain practical as well as theoretical experience.
- Participation in Stage II, the student run theatre club, is strongly encouraged.
- Students may have to vary their course sequence to accommodate courses, which are offered less frequently.

Anticipated Schedules *(Subject to change by the university without notice)*

Offered every Fall and Spring semester:
THTR 100 GE: Introduction to Theatre (multiple sections);

THTR 101 GE: Play Production (1 section)
THTR 102 GE: Acting (multiple sections);
THTR 103 Theatre Practicum (1 credit course, 1 section).

Offered once a year:

Fall only:

THTR 220 GE: Children's Theatre

Either Fall or Spring:

THTR 240 GE: Stage Make-up
THTR 204 GE: Musical Theatre

Offered every other year:

THTR 118 GE: Stage and Comic Technique

THTR 127 GE: Movement for the Actor

THTR 210 GE: Design for Performing Arts

THTR 211 GE: Voice for Performance

THTR 301 GE: Costume Design

THTR 302 GE: History I

THTR 304 GE: History II

THTR 310 GE: Advanced Acting (by audition)

THTR 331 GE: Theatrical Lighting

THTR 332 GE: Scene Painting

THTR 341 GE: Stage Management

THTR 343 GE: Directing

THTR 350 GE: Acting for Musical Theatre

THTR 360: Acting for the Camera

THTR 420 GE: Myth and Ritual (alternately offered on tour in Oxford, England)

THTR 430 GE: Scene Design

Offered In Rotation Over a Four-Year Period:
(Dependent on specialties of available faculty)

THTR 320 GE: Women in Theatre, THTR 325 GE: Asian Theatre (also offered periodically on tour in China), THTR 330 GE: African Theatre, THTR 335 GE: Latino Theatre, THTR 440: Collaborative Theatre Workshop

Offered by Special Arrangement:

THTR 235 Drafting for the Performing Arts

THTR 230 GE: Stagecraft

THTR 486 Field Experience and Internship

THTR 490 Senior Seminar

Offered Currently through Communication Studies:
Introduction to Film Studies

Art and History of Film

Film Genre

For more information, contact the department by calling 570-422-3694 or e-mail department secretary Pamela Gallina at pam.gallina@po-box.esu.edu. For information on specific tracks, contact the track adviser. To become a major, contact the theatre chair. For information on the minor, contact any theatre faculty.

Department of Theatre 570-422-3759 www.esu.edu/theatre http://www.esu.edu/theatre

For ticket information call 570-422-3483 x4.

Faculty

Professor:
Stephanie French, chair (sfrench@po-box.esu.edu)
Susan O'Hearn (so'hearn@po-box.esu.edu)
Adviser: Fine Arts Track

Associate Professors:
Adviser: Acting for Theatre, Television and Film and Directing Tracks
Margaret Ball (mball@po-box.esu.edu)
Adviser: Musical Theatre Track

Assistant Professor:
Yoshinori Tanokura (ytanokura@po-box.esu.edu)
Adviser: Design/Technical Theatre Track

Course Descriptions

*Courses marked with * fulfill the requirements for Fine Arts.*

*Courses marked with ** fulfill the requirements for Performing Arts.*

THTR 100 GE: Introduction to Theatre (3)*

This course is an introduction to the basic elements of theatre including the arts of acting, directing, playwriting and scenic design. The course will examine major trends in theatre history and will focus on several plays in their historical context in order to better understand the origins and development of theatre as an art form. From this historical and analytical approach, the student will come to appreciate the theatre as a distinctive expression of human experience.

THTR 101 GE: Play Production (3)**

This course in the art and technique of play production is designed to enhance the student's understanding of the theatrical production process and to aid the prospective producer of school and amateur theatricals. The class covers theatrical organization, theatre facilities, types of staging, and a survey of the many technical elements involved in the production of plays and musicals. Participation in production is required.

THTR 102 GE: Acting (3)**

This course aims at the development of basic acting techniques. Emphasis is placed on developing greater confidence before an audience and increasing one's power of imagination, observation, and concentration. Beginning techniques of character development will be explored. Preparation of specific acting assignments is required.

THTR 103 GE: Theatre Practicum (1)**

This course is designed to allow students academic credit for participation in the theatre production program of the Theatre Department. Work in the technical and performance areas is included. Participation in production is required. (May be repeated for credit. Students must complete a minimum of 30 hours of participation.)

THTR 118 GE: Stage and Comic Technique (3)**

This course explores comedy and comic techniques from the broadest, most physical form of farce to the intellectual wit of comedy of manners. It stresses the fundamental conventions and techniques found in the performance of comedy. The course also reinforces the basic techniques of performance, including relaxation observation, and concentration. Preparation of specific performance assignments is required. Offered in alternate years.

THTR 127 Movement for the Actor (3)

This course offers practical experience in the organic functioning and development of the actor's body in awareness for movement. The student will learn to move with ease and grace and keep the body well-tuned as well as understand how the body, as a non-verbal communicator, reveals a character's emotions. Various exercises will be prepared for onstage presentation in order to teach the student control and freedom in front of an audience.

THTR 163 GE: Introduction to Film Study (3)*

This course is designed to provide the students with an understanding of the elements necessary for film analysis toward a development of an appreciation for film as art. Representative films are screened in order to study the impact of the art form on modern society and on the individual.

THTR 200 GE: Summer Theatre Workshop (Semester hours arranged)**

The Workshop is open to high school and college students, teachers, and to anyone interested in theatre production. Students who enroll in this intensive Theatre Workshop will participate in all phases of Summer Theatre productions. Workshop students will participate in weekly critique sessions. Both self and group evaluative techniques will be utilized. Guest critics will be invited as participants in the critique sessions. The individual student's participation in the Workshop will be tailored to needs and abilities.

THTR 202 GE: Acting II (3)**

This course will cover more challenging topics in understanding and application of acting technique by expanding the students' dramatic range. Early to mid-20th century American plays, foreign language plays in translation, and other plays outside the students' familiar culture, will be the source materials for scenes and monologues to be analyzed, researched and performed. This course may be repeated for credit with a different instructor. Prerequisite: THTR 102

THTR 204 GE: Musical Theatre (3)**

This course is a broad study of the various elements and repertoire that constitute musical theatre. This study will examine the music, characters, and plots of specific works relating them to the music, and artistic achievement, characters, historical significance, social relevance, and performance practices. Material will cover various aspects of musical comedy, operetta, cabaret, and opera. This is a general course for all students interested in broadening their awareness of the form.

THTR 210 GE: Design for the Performing Arts (3)

This course is an introductory study focusing on fundamental principles and practices of visual and aural design for the performing arts. Analytical topics of study include history of design for the performing arts, script analysis, director and designer communication, and the integration of design elements into a unified production. Various design media will be introduced and be explored to effectively present concepts and designs.

THTR 211 GE: Voice for Performance (3)**

This course will focus on the development of physical awareness of the vocal process through exercises in relaxation, body alignment and support of tone. Further development of actor's voice in range, power, flexibility and articulation will also be explored. Preparation of readings in prose, poetry and dramatic monologue will be included.

THTR 220 GE: Children's Theatre (3)**

This course consists of selection, adaptation, and presentation by adults of plays for young audiences; it includes a study of plays with suitable moral and social values.

THTR 228 GE: Theatre Tour of the Performing Arts (3)*

This course is designed to enhance a student's understanding and appreciation of our theatre heritage by experiencing the theatre, arts and culture of a particular country and culture. The student will attend theatre productions, participate in discussions with leading professionals, tour facilities, and visit theatre exhibitions. Travel fees additional.

THTR 230 GE: Stagecraft (3)*

This course is an introduction to the theory and practice of contemporary set construction properties, stage engineering, lighting and sound. Students will be introduced to the tools and specialized equipment of both the scene and light shops. Participation in production is required.

THTR 240 GE: Stage Make-Up (3)*

This course is centered around the theory and practice of theatrical make-up techniques. The course allows students the opportunity to design and create performance make-up. Prerequisite: THTR 100 or permission of instructor. Offered alternate years.

THTR 267 GE: Art and History of the Film (3)*

This course studies the historical and aesthetic developments of the cinema, emphasizing the aesthetic aspects of film in an attempt to develop critical standards through surveying the methods and problems of film. Narrative, non-narrative, fictional, and documentary films are screened and discussed. Prerequisite: CMST 163.

THTR 290 Special Topics (Semester hours arranged)

These courses are designed to meet specific needs of groups of students or are offered on a trial basis in order to determine the demand for and value of introducing them as a part of the university curriculum.

THTR 301 GE: Costume Design (3)*

This course emphasizes the design, history, and construction of costumes for theatre, television, and film. The emphasis will be on script analysis, research, and design concepts. Design construction projects allow the student to gain a greater understanding of the role of a costume designer in the theatrical process. Prerequisite: THTR 100 or 101

THTR 302 GE: History of Theatre I (3)*

This course will provide an understanding of the history and literature of theatre from the ancient times through the 18th Century. Emphasis is placed on how the theatre has reflected the political, social, economic, and cultural trends in each era. Plays from the various periods are read and analyzed. Offered alternate years. Prerequisite THTR 100

THTR 304 GE: History of Theatre II (3)*

This course will provide an understanding of the history and literature from the 19th Century to the present. Emphasis is placed on how the theatre has reflected the political, social, economic, and cultural trends in each era. With an emphasis on Western theatre, plays from the various periods are read and analyzed. Offered alternate years. Prerequisite: THTR 100.

THTR 310 GE: Advanced Acting: Styles (3)**

This course provides further study of character development that includes contemporary scene study with additional focus on improvisation, concentration, observation and voice and movement techniques. These techniques are applied in the preparation and presentation of scenes and monologues. The course will also introduce approaches to the unique demands of professional presentation and acting for auditions. Entrance to this course will be by audition in the semester prior but some slots may still be available the semester of the course for new transfer students. Prerequisite: THTR 102, THTR 211 and permission of instructor.

THTR 320 GE: WS: Women in Theatre (3)

This course will cover the development of a female dramatic tradition. Research will be conducted on the positions that came to be filled by women in the course of theatre history: playwright, director, producer, actress, teacher, designer, dramaturge, and critic. Studies will be made of plays that feature strong female roles. The texts will range from Greek classics to contemporary works.

Prerequisite(s): THTR 100 or ENGL 103 or WMST 150

THTR 325 GE: Asian Theatre (3)*

This course will provide an overview of Asian theatre with emphasis on its texts, theatrical aesthetics, and conventions of production. Cultural and historical contexts of diverse Asian theatrical styles and their influences in world theatre will be examined. Equivalent courses will be considered as prerequisites.

Prerequisite(s): THTR 100 or ENGL 103 or SOC 102 or IIS 100

THTR 330 GE: African Theatre (3)*

This course presents a wide range of the drama and theatre of Africa and the African Diaspora. It examines the themes, functions, conventions, creative techniques, and styles deriving from the specific historical and geographical settings in Africa, the Americas, the Caribbean, and Britain. Prerequisites: THTR 100 or ENGL 103 or SOC 102 or IIS 100

THTR 331 GE: Theatrical Lighting (3)*

This course is concerned with the theory and practice of designing lighting for the performing arts. Students will be introduced to script analysis and conceptualization of plays, musicals, and dance and will learn to develop light plots in an experimental theatre setting. Students will provide their own drafting equipment. Prerequisite: THTR 230.

THTR 332 GE: Scene Painting (3)*

This course is concerned with the theory and practice of scene painting. Students will explore a variety of scene painting techniques and how they can artistically be translated to the stage. Prerequisite: THTR 230.

THTR 335 GE: Latino Theatre (3)*

This course investigates a diverse range of the theatre of Spain, Latin America, and the Caribbean, as well as Latino/Latina cultures in the United States. Through an investigation of the work of prominent Latina/Latino theatre artists, this course delves into the themes, conventions, and aesthetics influencing theatre in these cultures, and influencing culture from these artists. Equivalent prerequisites will be considered. Prerequisites: THTR 100 or ENGL 103 or SOC 102 or IIS 100

THTR 341 Stage Management (3)**

This course is offered for students interested in production management areas. A study of audition, rehearsal and production management techniques will be made. Emphasis will be on planning and organizational skills for stage management. Prerequisite: THTR 100 or 101.

THTR 343 GE: Directing (3)**

Basic principles and techniques of stage direction will be explored. This course will provide the director, actor or designer with the necessary methods and tools to analyze and synthesize the elements necessary to bringing a production to life before an audience. Topics include: play analysis, creating the ensemble, conceptual unity, metaphor and organizational responsibilities of the director. Presentation of scenes will be required. Prerequisites: THTR 100, 102

THTR 350 GE: Acting for Musical Theatre (3)

This course introduces techniques on integrating acting with both voice and movement into a Musical Theatre performance. Further development of basic acting will be emphasized using the "given circumstances," discovering objectives, obstacles, tactics, relationships, and beats. Scene and song assignments will be made from the classical canon of American Musical Theatre. Prerequisite: THTR 102

THTR 360 Acting for the Camera (3)

This course will focus on adapting and applying acting technique to the unique demands of an on-camera TV studio or film set environment. Acting concepts and film/TV terminology and procedures, as well as expected preparation for and conduct on a set will be covered. Prerequisite: THTR 102

THTR 370 GE: Film Genre (3)*

This course will analyze significant films of either one or two genres in an attempt to define the characteristics of each genre and understand their cultural meanings. Readings will focus on the genres' historical development with emphasis on their relation to the social currents of the times. Representative films will be screened. Selected genres will vary with each offering of the course. Genres studied will include: the comedy film, the science fiction film, the musical film, the documentary film, the film noir, and the horror film. Prerequisite: CMST 163.

THTR 420 Myth and Ritual in Theatre (3)

This course explores myth and ritual as they relate to theatre, both in their primitive foundations and in their modern applications. The use of masks and various primary aspects of theatre and acting will be examined, culminating in an informal performance reflecting elemental acting skills, as they relate to mythical and ritualistic foundations of theatre. Available for graduate credit. Prerequisites: THTR 100, 102.

THTR 430 GE: Scenic Design (3)*

This course is concerned with the theory and practice of designing scenery for the performing arts. Students will be introduced to script analysis and conceptualization of plays and musicals and will learn to develop floor plans, models, construction elevations, and finished color renderings of their design projects. Students will provide their own drafting equipment. Prerequisite: THTR 230 and 235

THTR 440 Collaborative Theatre Workshop (3)

This advanced course will focus on critical analysis and application of collaborative theatre techniques focused around a specific playwright, or theatrical style, or collaborative technique which will vary each time the course is taught. Admission to the course will be by audition for actors and by interview for all other positions. Audition/interviews will take place one semester prior but some openings may still be available for new transfer students. Students

may take this course for credit more than once. Prerequisite(s): THTR 100, THTR 102 and one of THTR 202, THTR 210 or THTR 310

THTR 485 Independent Study (Semester hours arranged)

This course consists of directed research and study on an individual basis. It is open to a limited number of students who are juniors and seniors or who have completed 12 credit hours in Theatre Arts and who received departmental approval. A student engaging in Independent Study will complete a minimum of five (5) hours per credit of exclusive conference time with the faculty member in charge of the Independent Study relative to the design, consultation, and evaluation of the study. The student must demonstrate competencies appropriate to the level of the course. The standards shall include performance in the subject, explication of that work by written or oral reports, and evidence of a willingness to meet the commitments of the discipline.

THTR 486 Field Experience and Internship (Semester hours arranged)

This course provides field experience gained through placement in a practical on-the-job situation under professional supervision.

THTR 490 Senior Seminar (3)

This is a culminating seminar designed to prepare students for entry into the theatre profession or graduate programs. Students will review theory and practice, as well as professional presentation expectations relevant to their theatre tracks and create individual career plans. Students will develop a portfolio of exemplary materials both newly created and selected from their best undergraduate work for presentation to potential employers and graduate schools. Prerequisite: 85 credits or permission of instructor

THTR 496 Fine Arts Seminar (3)

A team-taught interdisciplinary capstone experience for senior Fine Arts majors. In conjunction with this seminar the student and faculty explore selected topics in the fine arts relative to the preparation of a thesis project in Art, Music, or Theatre through which the student will demonstrate a satisfactory level of performance and/or research skills. Prerequisites: Advanced standing of 90 credits, permission of instructor. Also offered as ART 496 and MUS 496.

Academic Advising for Undeclared Students

First Year Experience Course

The First Year Experience course is designed to improve student success in college by enhancing academic skills, self-awareness management, self-esteem, and promoting the value of a liberal education for personal development, civic engagement, and lifelong learning.

It is highly recommended for all undeclared students matriculating from high school or transfer students with fewer than 21 credits.

Fast Facts About the Undeclared Student

- More than 500 ESU students have not yet declared a major.
- "Undeclared" is the third largest major on campus.
- More than 200 freshmen enter ESU as undeclared every year.
- Almost 50 percent of students who enter college and universities are undecided about their academic and career goals.
- Seventy-five percent of students in colleges and universities change their majors at least once before graduation.
- On average, people change their careers seven times throughout their lives.

Selecting a major does not mean you are stuck in a career!

Advisee Responsibilities

As an advisee, you have clear responsibilities in the advising partnership. In order to be successful, you should:

- Schedule an appointment with your academic adviser during each semester.
- Arrive prepared to each appointment with questions and your advising portfolio.
- Keep an advising portfolio where you keep official documents and keep a record of your progress toward meeting your educational goals.
- Enroll in the courses that you and your academic adviser have determined from educational objectives.
- Be an active learner by participating fully in the advising experience.

Office of Academic Advising for Undeclared Students

- The primary purpose of the Office of Academic Advising for Undeclared Students is to assist students who are undecided about a major in the development of meaningful educational plans that are compatible with students' life goals. Academic advisers provide assistance with:
    - General course selection
    - Explanation of degrees and degree requirements
    - Development of a program of study
    - Selection of an academic major
    - Academic concerns and issues
    - Referral to other ESU resources and services
    - Unofficial progress check toward graduation

Academic advisers for the undeclared student apply knowledge of teaching, advising, learning, and human development to encourage educational experiences that lead to intellectual and personal growth.

Advantages of the Undeclared Major

- Students may take the time they need to clarify life and career goals.
- Students can develop a suitable educational plan.
- Students receive assistance with the selection of appropriate courses.
- Students receive help with interpreting institutional requirements.
- Students receive help with major exploration.

Majors: Choosing and Changing

If you haven't chosen a major, don't worry. You're in good company. Many students are undecided about their majors when they enter college, and many who decided change their minds more than once before they graduate. Use your freshman year and the general education curriculum to explore academic options, and to sample ideas and approaches from other disciplines.

Examine your academic interests by asking yourself these questions: What do I do well? What subjects did I enjoy in high school? What activities did I participate in? What do I like to read about? If you have any special skills or interests, they should be apparent from how you answer these questions. A good guide to what really interests you is what you choose to do on your own, as well as your previous experiences with part-time work, volunteer work, hobbies, sports, and travel.

Office of Academic Advising For Undeclared Students

Director of Undeclared Advising
Dr. Jack Truschel
jtruschel@po-box.esu.edu

For more information, contact the department by calling 570-422-3164

Rosenkrans East 570-422-3164 www.esu.edu

Administration

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James Dillon, Vice Chancellor for Administration and Finance

Vacancy, Vice Chancellor for Information Technology and Research

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Leonidas Pandeladis, Chief Counsel

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University Senior Administration

President's Office

Marcia G. Welsh, President

Miguel Barbosa, Interim Chief of Staff

Brenda Friday, Interim Director, University Relations

Academic Affairs

Van Reidhead, Provost and Vice President for Academic Affairs

Marilyn J. Wells, Vice Provost and Graduate Dean

Yun Kim, Associate Provost

Michael Southwell, Assistant Vice President for Instructional Support and Outreach

Peter J. Hawkes, Dean, College of Arts and Sciences

Alla L. Wilson, Dean, College of Business and Management

Pamela Kramer-Ertel, Dean, College of Education

Mark J. Kilker, Dean, College of Health Sciences

Edward Owusu-Ansah, Dean, Library and University Collections

Enrollment Management

Victoria Sanders, Vice President for Enrollment Management

Jeff Jones, Director, Admission

Patricia Kashner, Director, New Student Programs/Assistant to the Vice President for Enrollment Management

Kizzy Morris, Registrar/Director, Enrollment Services

Finance and Administration

Richard A. Staneski, Vice President for Finance and Administration

Donna Bulzoni, Director of Financial Affairs and Controller

Michael Crapp, Director of Procurement and Contracting

Robert D'Aversa, CIO, Computing and Communication Services

Teresa K. Fritsche, Director, Human Resource Management

Syed Zaidi, Director, Facilities Management

Robin Olson, Chief of Police, University Police

Research and Economic Development

Mary Frances Postupack, Vice President for Economic Development and Research Support

Patricia Campbell, Director, Sponsored Projects and Research

Student Affairs

Doreen M. Tobin, Vice President for Student Affairs

Warren Anderson, Assistant Vice President for Student Affairs

Maria Hackney, Director, University Health Services

Robert Moses, Director, Residence Life

University Senior Policy Administrators

Marcia G. Welsh (2012)
President
B.S., 1972, Colorado State University;
M.S., 1974, Colorado State University;
Ph.D., 1978, University of Texas Health Science Center

Van Reidhead
Provost and Vice President for Academic Affiars
Ph.D., 1976, Indiana University Bloomington;
M.A., 1974, Indiana University Bloomington;
B.A., 1971, Brigham Young University

Richard A. Staneski (1998)
Vice President for Finance and Administration
B.A., 1972, Claremont McKenna College;
M.A., 1974, California State University at San Jose

Doreen Tobin (2006)
Vice President for Student Affairs
B.S., 1974, St. Lawrence University;
M.Ed., 1975 St. Lawrence University;
D.Ed., 2003, Pennsylvania State University - Harrisburg

Mary Frances Postupack (1984)
Vice President for Economic Development and Research Support
B.S., 1976, Pennsylvania State University;
M.Ed., 1993, East Stroudsburg University;
Cert. Corporate Entrepreneurship, 2007, Lehigh University

Victoria L. Sanders (1988
Vice President for Enrollment Management
B.S., 1976 SUNY at Cortland;
M.Ed., 1983 Lehigh University;
D.Ed., 2006 Indiana University of Pennsylvania

Marilyn J. Wells (2008)
Vice Provost and Graduate Dean
B.S., 1980, Indiana University of Pennsylvania;
M.S., 1987, East Stroudsburg University;
M.P.H., 1991, East Stroudsburg University;
Ph.D., 1989, Southern Illinois University Carbondale

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Associate Provost
B.A., 1980, University of Kentucky;
M.S., 1983, University of Kentucky;
Ph.D., 1989, University of Kentucky

Peter J. Hawkes (1986)
Dean, College of Arts and Sciences
B.A., 1968, Fordham University;
M.A., 1972, New York University;
M.Phil., 1976, Ph.D., 1986, Columbia University

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Dean, College of Business and Management
B.S., 1975, Illinois College of Optometry;
M.B.A., 1988, University of Wisconsin-Milwaukee;
Ph.D., 1996, University of Wisconsin-Milwaukee

Pamela Kramer-Ertel (1991)
Dean, College of Education
B.A., 1978, Marian College; M.A., 1982, Kean College;
Ed.D., 1994, Lehigh University

Mark J. Kilker (1981)
Dean, College of Health Sciences
B.S.N., 1975, Trenton State College;
M.S.N., 1980, University of Pennsylvania;
Ed.D., 1994, Teachers College, Columbia University

Edward Owusu-Ansah (2008)
Dean, Library and University Collections
M.A., 1986, Eotvos Lorand University;
Ph.D., 1988, Eotvos Lorand University;
M.L.S., 1998, Queens College, CUNY

Michael Southwell (1995)
Assistant Vice President for Instructional Support and Outreach
B.S., 1973, Temple University;
M.Ed., 1980, Temple University

Faculty

This list of permanent faculty members is current as of May 1, 2012. Two dates follow each individual's name. The first indicates the year of appointment to the university and the second denotes the year of appointment to the academic rank or position indicated.

*Denotes faculty members awarded promotions within 2012-2013 academic year.

John A. Abbruzzese III (1996, 2000)
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A.B., 1978, Brown University
Ph.D., 1989, University of Pittsburgh

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Professor of Speech Language Pathology
B.A., 1972, SUNY at Albany
M.S., 1976, Towson State University
Ph.D., 1982, Wichita State University

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Associate Professor of Political Science
B.S., 1995, University of Southern Mississippi
M.S., 1997, University of Southern Mississippi
Ph.D., 2003, University of Mississippi

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B.A., 1983, Hunter College
M.A., 1988, Hunter College
M.Phil., 1993, City University of New York
Ph.D., 1995, City University of New York

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B.S., 1988, University of Scranton
M.S., 1989, University of Scranton
Ed.D., 2001, Argosy University/Sarasota

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Associate Professor of Biological Sciences
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M.S.P.H., 1987, Tulane University
Sc.D., 1991, Tulane University

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Assistant Professor of Early Childhood and Elementary Education
B.S., 1980, Universitat de Barcelona
B.S., 1985, Universitat de Barcelona
M.S., 1991, Universitat de Barcelona
M.A., 2002, Goddard College
Ph.D., 2008, Virginia Polytechnic Institute and State University

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M.S., 1987, Bloomsburg University
Ph.D., 2010, University of Medicine and Dentistry of New Jersey

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M.Ed., 1989, Towson State University
Ed.D., 1995, Texas A & M - Commerce

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M.A., 1978, East Stroudsburg University
Ph.D., 1990, New York University

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M.M., 1992, McGill University
Ph.D., 1999, The Catholic University of America

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M.C., 1987, Arizona State University
M.A., 1976, University of South Florida
Ph.D., 1987, Arizona State University

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Associate Professor of Business Management
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M.B.A., 1991, Syracuse University
Ph.D., 2006, University at Albany, SUNY

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Professor of Psychology
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M.A., 1990, Marywood University
Ph.D., 2002, Walden University

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B.Ed., 1997, University of Dhaka
M.Ed., 1999, University of Dhaka
M.A., 2004, Indiana University of Pennsylvania
Ph.D., 2007, Indiana University of Pennsylvania

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Associate Professor of Economics
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M.B.A., 1978, Lehigh University

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M.A., 1976, Case Western Reserve University
Ph.D., 1983, Case Western Reserve University

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M.S., 1989, Florida State University
Ph.D., 1995, Florida State University

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M.L., 1976, University of South Carolina

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Dr.P.H., 1994, Johns Hopkins University

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Ph.D., 1998, Pennsylvania State University

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M.A., 1986, New School University
Ed.D., 2002, Nova Southeastern University

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Ph.D., 2005, Southern Illinois University

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Ed.S., 1978, Indiana University

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M.Litt. (studies), 1999-2001, University of Edinburgh, Scotland
Dr. phil., 2006, University of Kassel, Germany

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Ph.D., 1989, Purdue University

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M.A., 1996 Columbia University
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M.A., 1967, University of Virginia
Ph.D., 1970, University of Virginia

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M.S., 1991, Florida International University
Ph.D., 2002, Colorado State University

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M.M., 1979, Northwestern University

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M.S.N., 1987, University of Pennsylvania

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Assistant Professor of Sports Management
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M.S., 1966, West Virginia University

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B.A., 1976, East Stroudsburg University
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Ed.D., 1986, Lehigh University

Christopher Dudley (2011, 2011)
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B.A., 2001, Oberlin College
M.A., 2003, University of Chicago
Ph.D., 2010, University of Chicago

Kathleen M. Duguay (1997, 2007)
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B.A., 1981, North Adams State College
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Ph.D., 1997, SUNY at Albany

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M.A., 1983, Wake Forest University
Ph.D., 1992, Indiana University

Sandra J. Eckard (2005, 2010)
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M.A., 1996, West Virginia University
Ph.D., 2001, Indiana University of Pennsylvania

Johan L. Eliasson (2005, 2010)
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M.A., 1999, Syracuse University
Ph.D., 2005, Syracuse University

John K. Elwood (1999, 2005)
Associate Professor of Physics
B.A., 1991, Cornell University
M.S., 1993, California Institute of Technology
Ph.D., 1996, California Institute of Technology

James W. Emert (1981, 1981)
Assistant Professor of Computer Science
A.A., 1972, Montgomery County Community College
B.A., 1974, East Stroudsburg University
M.A., 1981, Temple University

Dennis J. Erb (1979, 1990)
Professor of Chemistry
B.A., 1973, East Stroudsburg University
Ph.D., 1978, SUNY at Buffalo

Sussie Eshun (1996, 2007)
Professor of Psychology
B.A., 1989, University of Ghana
M.A., 1992, SUNY at Stony Brook
Ph.D., 1996, SUNY at Stony Brook

Joseph Eshun Jr. (2008, 2008)
Associate Professor of Business Management
B.S., 1991, City College of Higher Education
M.S., 1994, State University of New York
M.P.H., 2000, Columbia University
Ph.D., 2000, Columbia University

Darlene Farris-Labar (2006, 2006)
Assistant Professor of Art
A.A.S., 2001, The College for Technology
B.F.A., 1996, Indiana University of Pennsylvania
M.F.A., 1998, State University of New York

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B.A., 1987, University of Massachusetts
M.A.S., 1991, University of Massachusetts

Robert P. Fleischman (1996, 2005)
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B.A., 1980, University of Michigan
J.D., 1985, Hofstra University School of Law
M.S., 1995, University of Massachusetts
Ed.D., 2006, Binghamton University

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Professor of Professional and Secondary Education
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M.Ed., 1975, Kutztown University
Ed.D., 1992, Temple University

Germain E. Francois (1979, 1987)
Distinguished Professor of Academic Enrichment and Learning
B.A., 1972, Tufts University
Ed.M., 1973, Tufts University
Ph.D., 1979, University of Connecticut

John C. Freeman (2005, 2005)
Assistant Professor of Chemistry
B.S., 1983, Whitworth College
Ph.D., 1989, Arizona State University

Otis C. French (2007, 2008)
Associate Professor of Music
B.A., 1991, Saint Leo College
M.A., 1997, Indiana University
Ph.D., 2004, University of Maryland

***Stephanie E. French (2001, 2012)**
Professor of Theatre
B.A., 1992, San Francisco State University
M.F.A., 1996, University of California, San Diego

Douglas Friedman (2010,2010)
Associate Professor of Business Management
B.A., 1986, University of Pennsylvania
M.B.A., 1994, Baruch College
Ph.D., 2005, University of Michigan

***Shannon L. Frystak (2007, 2012)**
Associate Professor of History
B.S., 1990, Bowling Green State University
M.A., 1997, University of New Orleans
Ph.D., 2005, University of New Hampshire

Gloria Gadsden (2006, 2006)
Associate Professor of Sociology
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Faculty Emeriti

This recognition is awarded for outstanding service during the faculty members' University Tenure.

The criteria considered for Faculty Emeriti rank include the following: A minimum of 10 years of service at ESU - Retirement from the State System of Higher Education - Recommendation of the appropriate ESU department - Recommendation of the Faculty Emeriti Committee - Presidential approval.

The following list represents those faculty holding Emeriti rank as of June 2011:

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Paul Allen III
Richard D. Amori
Neil O. Anderson
Angella Angelini
Arthur E. Arnold, II
Mary Sue Balducci
Mary E. Banzhof
Charles O. Baughman
John J. Baxevanis
M. Paul Beaty, Jr.
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Seewoonundun Bunjun
Deidre Burnstine
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William Burt
Jone J. Bush
Orrin Cafferty
David S. Campbell
Joseph Catanzaro
Joseph Cavanaugh
Cecile B. Champagne
Cheng Y. Cheng
Merlyn Clarke
Charles Cole
John H. Condit
Patricia Crotty
Quentin P. Currie
Edward P. Demansky
Richard L. DeSchriver
Donna Deutsch
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Nova S. Dowden
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James N. J. Henwood
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Robert M. Howell
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Ramananda Balakrishna
R. Rao Robert W. Reed
Charles R. Reese
Gwynne H. Reese
Ellis Riebel
Joanne Riebel
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Timothy Wagner
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Carolyn D. Woodhouse
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Susan Bromer Ziegenfus
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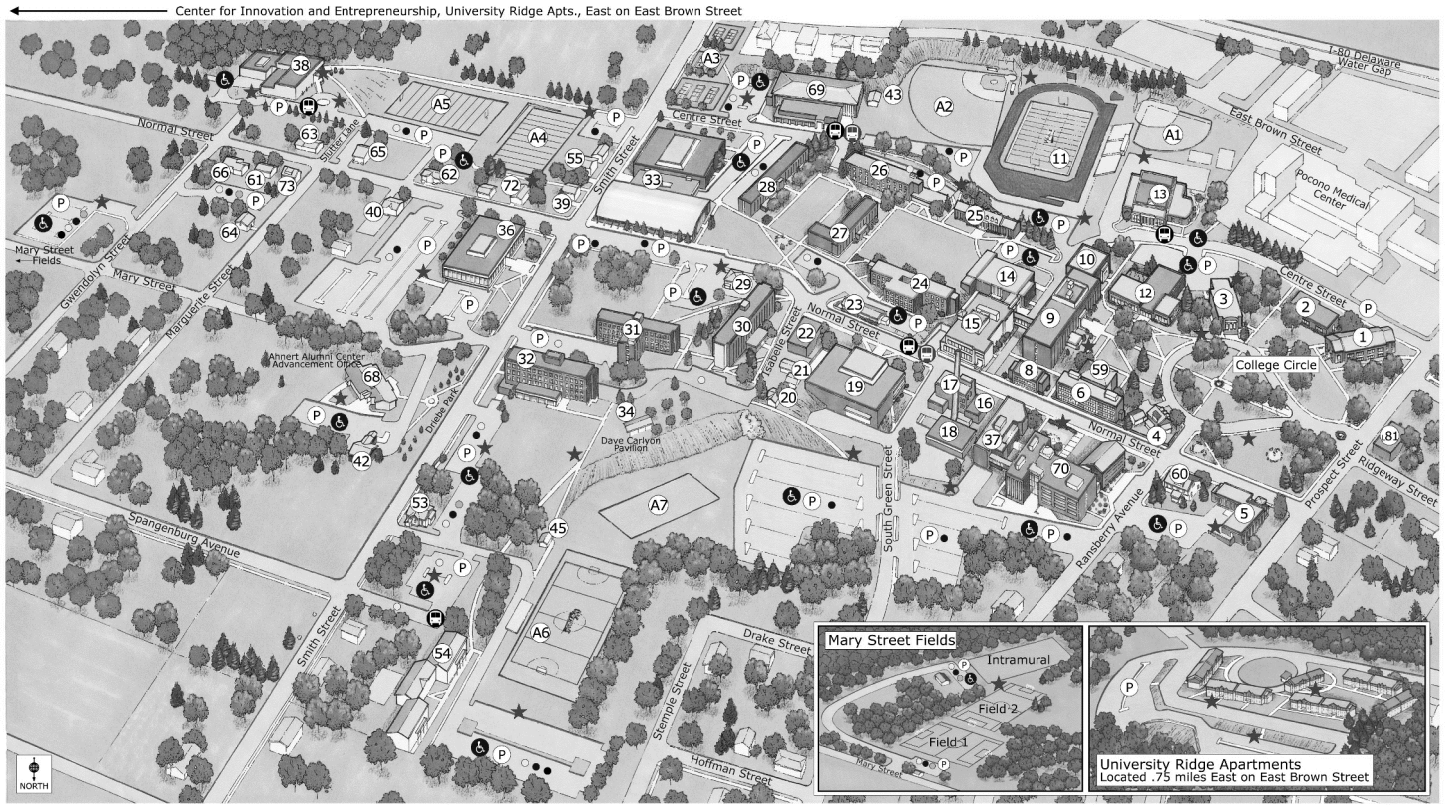
Campus Map



Building Legend

1 DeNike Center for Human Services P A
2 LaRue Hall A
3 Abeloff Center for the Performing Arts A
4 President's Residence A
5 Reibman Administration Bldg P A
6 Gessner Science Hall P
8 Computing Center
9 Stroud Hall P A
10 McGarry Communications Center
11 Eiler-Martin Stadium
12 Rosenkrans Hall P
13 Zimbar-Liljenstein Hall P A [Financial Aid, Registration, Student Accounts]
14 Center for Hospitality Management A
15 University Center P A
16 Facilities Management Complex A
17 Utility Plant A
18 Institutional Storeroom and Garage A
19 Dansbury Commons P A
20 D.G.S. Field Office
21 Facilities Management Annex
22 Flagler-Metzgar Center P
23 Upward Bound Center [285 Normal Street]
24 Laurel Residence Hall
25 Monroe Hall
26 Minsi Residence Hall A
27 Shawnee Residence Hall
28 Linden Residence Hall A
29 University Police Station A
30 Hawthorn Residence Hall
31 Hemlock Residence Hall A
32 Lenape Residence Hall A
33 Koehler Fieldhouse & Natatorium A
34 Dave Carlyon Pavilion
36 Kemp Library P
37 Moore Biology Hall A
38 Fine and Performing Arts Ctr. A
39 Business Management Dept. [208 Smith Street]
40 Economics Dept. [420 Normal Street]
42 Spangenburg Farm Barn & Storage [106 Smith Street]
43 Mitterling Field Storage
45 Whitenight Field Storage
53 United Campus Ministries A [103 Smith Street]
54 University Apartments
55 Athletics Department [216 Smith Street]
59 Joseph H. & Mildred E. Beers Lecture Hall P
60 Conference Services [96 Normal Street]
61 Center for Computer Security A [434 Normal Street]
62 [411 Normal Street]
63 [427 Normal Street]
64 Facilities General Services [162 Marguerite Street]
65 Honors Program [417 Normal Street]
66 Multicultural House [432 Normal Street]
68 The Henry A. Ahnert Jr. Alumni Center A
69 Student Recreation Center A
70 Warren and Sandra Hoeffner P Science and Technology Center
72 [403 Normal Street]
73 Philoscphy & Religious Studies [428 Normal Street]
80 Center for Innovation & Entrepreneurship, Applied DNA Science P A [314 Independence Road]
UR University Ridge Apts.
L81 145 Ridgeway Street

ATHLETIC FIELDS
A1 Zimbar Athletic Field [Softball]
A2 Mitterling Athletic Field [Baseball]
A3 Wolberts Tennis Courts
A4 Smith Street Field 2
A5 Smith Street Field 1
A6 Whitenight Athletic Field [Field Hockey & Lacrosse]
A7 Athletic Field [Rugby]
A8 Mary Street Field 1
A9 Mary Street Field 2
A10 Mary Street Intramural Field

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- P — Parking - see below for student parking information
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- Junior-Senior resident students #8000 and below student decals
- University Ridge residents with on-campus parking
- Freshman-Sophomore students with special permission permit
- Accessible Parking Available
- ESU shuttle bus black (local) stop
- ESU shuttle bus red (express) stop
- Emergency Telephone (Blue Light)
- P — Power assisted accessible doors
- A — Accessible doors

Note: Portions of some student parking lots are designated for faculty and staff. These areas are posted with signs.

East Stroudsburg University of Pennsylvania

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