

Shippensburg UNIVERSITY

Including curricula leading to

the degrees of:

Master of Arts

Master of Business Administration

Master of Education

Master of Public Administration

Master of Science

Master of Social Work

Academic Calendar 2006-2007

Fall Semester 2006

New faculty orientation	Tuesday	August 22
Faculty meetings	Wednesday	August 23
New students arrive	Thursday	August 24
Academic orientation day	Friday	August 25
New student orientation	Saturday-Sunday	August 26-27
Regular class schedule begins	Monday	August 28
Labor Day, university closed	Monday	September 4
Fall break begins, 4 PM	Friday	October 6
Classes resume, 8 AM	Wednesday	October 11
Thanksgiving break begins, 8 AM	Wednesday	November 22
Classes resume, 8 AM	Monday	November 27
Last day of classes	Friday	December 8
Final exams	Monday-Friday	December 11-15
Commencement	Saturday	December 16

* The fall semester has one less Monday day/evening class—will be made up at the discretion of the faculty.

Spring Semester 2007

New students arrive	Saturday	January 13
New student orientation	Saturday.-Sunday	January 13-14
MLK Day, no classes	Monday	January 15
Regular class schedule begins	Tuesday	January 16
Spring break begins, 8 AM	Thursday	March 8
Classes resume, 8 AM	Monday	March 19
Mini break begins, 4 PM	Friday	April 6
Classes resume, 8 AM (Follow Monday class schedule)	Wednesday	April 11
Last day of classes	Friday	May 4
Final exams	Monday-Friday	May 7-11
Commencement	Saturday	May 12

Summer Term 3 - 2007

Session opens	Monday	May 21
Memorial Day, university closed	Monday	May 28
Make-up day for holiday	Saturday	June 2
Session ends	Friday	June 8

Summer Term 4 - 2007

Session opens	Monday	June 11
Make-up day for July 4	Friday	June 29
Independence Day, university closed	Monday	July 4
Session ends	Thursday	July 12

Summer Term 5 - 2007

Session opens	Monday	July 16
Session ends	Thursday	August 16

Academic Calendar 2007-2008

Fall Semester 2007

New faculty orientation	Tuesday	August 21
Faculty meetings	Wednesday	August 22
New students arrive	Thursday	August 23
Academic orientation day	Friday	August 24
New student orientation	Saturday-Sunday	August 25-26
Regular class schedule begins	Monday	August 27
Labor Day, university closed	Monday	September 3
Fall break begins, 4 PM	Friday	October 5
Classes resume, 8 AM	Wednesday	October 10
Thanksgiving break begins, 8 AM	Wednesday	November 21
Classes resume, 8 AM	Monday	November 26
Last day of classes	Friday	December 7
Final exams	Monday-Friday	December 10-14
Commencement	Saturday	December 15

* The fall semester has one less Monday day/evening class—will be made up at the discretion of the faculty.

Spring Semester 2008

New students arrive	Saturday	January 12
New student orientation	Saturday-Sunday	January 12-13
MLK day, no classes	Monday	January 14
Regular class schedule begins	Tuesday	January 21
Spring break begins, 8 AM	Thursday	March 6
Classes resume, 8 AM	Monday	March 17
Mini break begins, 4 PM	Friday	April 11
Classes resume, 8 AM (Follow Monday class schedule)	Wednesday	April 16
Last day of classes	Friday	May 2
Final exams	Monday-Friday	May 5-9
Commencement	Saturday	May 10

* *The spring semester has one less Monday day/evening class—will be made up at the discretion of the faculty.*

Summer Term 3 - 2008

Session opens	Monday	May 19
Memorial Day, university closed	Monday	May 26
Make-up day for holiday	Saturday	May 31
Session ends	Friday	June 6

Summer Term 4 - 2008

Session opens	Monday	June 9
Make-up day for July 4	Friday	June 27
Independence Day, university closed	Tuesday	July 4
Session ends	Thursday	July 10

Summer Term 5 - 2008

Session opens	Monday	July 14
Session ends	Thursday	August 14

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Introduction

Mission of the University

Shippensburg University of Pennsylvania is a regional state-supported institution. It is part of the State System of Higher Education of Pennsylvania, which is made up of 14 universities located in various geographic regions throughout the Commonwealth. Founded in 1871, Shippensburg University serves the educational, social, and cultural needs of students primarily from southcentral Pennsylvania. The university enrolls students from throughout the Commonwealth of Pennsylvania, the Mid-Atlantic region, the United States, and various foreign countries as well.

Shippensburg is a comprehensive university offering bachelor's and master's degree programs in the Colleges of Arts and Sciences, Business, and Education and Human Services. The curricula are organized to enable students both to develop their intellectual abilities and to obtain professional training in a variety of fields. The foundation of the undergraduate curriculum is a required core of courses in the arts and sciences. These courses prepare students to think logically, read critically, write clearly, and verbalize ideas in a succinct and articulate manner; they also broaden students' knowledge of the world, past and present.

The university's primary commitment is to student learning and personal development through effective and innovative teaching and a wide variety of high-quality out-of-class experiences. The ultimate goal is to have students develop to their utmost the intellectual, personal, and social capabilities they need to perform as competent citizens prepared to embark on a career immediately upon graduation or after advanced study. The personal attention given each student at Shippensburg is reflective of the strong sense of community that exists on campus and the centrality of students within it. The university encourages and supports activities which give students many opportunities to apply the theories and methods learned in the classroom to real or practical situations, such as faculty-student research and student internships. Student life programs and activities

complement the academic mission and further assist students in their personal, social, and ethical development.

Committed to public service and community-centered in its relationships to the region, the university works closely and collaboratively with other organizations at institutional, programmatic, and individual levels to develop common goals, share resources, and invest cooperatively in the future of the region.

Mission of the School of Graduate Studies

Shippensburg University of Pennsylvania offers master's, post-baccalaureate and post-master's programs that encourage intellectual excellence, research and scholarship while emphasizing the development of applicable professional skills. The mission of the School of Graduate Studies is to create an atmosphere of intellectual curiosity, academic freedom, diversity, independent scholarship, and creative investigation for its students by offering programs that are:

- Current and flexible;
- Responsive to regional needs;
- Responsive to individual needs and career goals;
- High quality and affordable;
- Taught by qualified and engaged faculty;
- Applied and professional;
- Appropriately interdisciplinary;
- Designed to enhance critical analytic skills; and
- Focused on new concepts and best practices.

These programs are designed to provide advanced study that allows students to enter or advance within a profession, but they may also serve as preparation for pursuit of a doctorate or other advanced degree.

Goals and Objectives

Each program in the School of Graduate Studies embraces the values of quality, integrity, collaboration, efficiency, innovation, creativity, inclusiveness, and a belief in the

actualization of individual potential. The programs build on the knowledge and skills gained in baccalaureate programs to prepare students for entry into professional fields, to ensure competence to perform at advanced professional levels, and to encourage lifelong learning in an increasingly diverse society. Academic excellence and the development of professional skills are achieved through a strong commitment to the following objectives:

- Varied and flexible course times and delivery;
- Close faculty/student relationships;
- An interactive learning environment;
- Opportunities for independent and collaborative scholarship;
- Appropriately sized classes;
- Applied practica and internships;
- Degree requirements that ensure academic integrity;
- Opportunities for integration of knowledge and the applications of technology;
- Fostering high ethical standards;
- Development of problem-solving skills.

Brief History

Shippensburg University was established in 1871 as the Cumberland Valley State Normal School. The school received official approval by the state on February 21, 1873, and admitted its first class of 217 students on April 15, 1873. In 1917 the school was purchased by the Commonwealth of Pennsylvania.

On June 4, 1926, the school was authorized to grant the bachelor of science in education degree in elementary and junior high education. The school received a charter on October 12, 1926, making it the first normal school in Pennsylvania to become a state teachers college. On June 3, 1927, the State Council of Education authorized the name change to the State Teachers College at Shippensburg.

The business education curriculum was approved on December 3, 1937. On December 8, 1939, Shippensburg State Teachers College became the first teachers college in

Pennsylvania and the fourth in the United States to be accredited by the Middle States Association of Colleges and (Secondary) Schools.

The State Council of Education approved graduate work leading to the master of education degree on January 7, 1959. On January 8, 1960, the name change to Shippensburg State College was authorized.

The arts and sciences curriculum was authorized by the State Council of Education on April 18, 1962, and the bachelor of science in business administration degree program was initiated on September 1, 1967.

On November 12, 1982, the governor of the Commonwealth signed Senate Bill 506 establishing the State System of Higher Education. Shippensburg State College was designated Shippensburg University of Pennsylvania effective July 1, 1983.

Accreditation

Shippensburg University is accredited by the Middle States Association of Colleges and Schools; the AACSB International; the American Chemical Society; the Council on Social Work Education; the Council for the Accreditation of Counseling and Related Educational Programs; the International Association of Counseling Services; the Council for Exceptional Children, the National Council for the Accreditation of Coaching Education, and by the National Council for the Accreditation of Teachers (NCATE).

The Campus

Shippensburg University is located in the Cumberland Valley of southcentral Pennsylvania, overlooking the Blue Ridge Mountains. The campus itself is situated on 200 acres of rolling land and is surrounded by a vast array of cultural and recreational sites.

Office of the Graduate Dean

The Office of the Graduate Dean, located in Old Main 310, provides a number of services to graduate students including coordination of

graduate assistantships. Office hours are 8 AM to 4:30 PM Monday through Friday during the academic year. Summer hours are 8 AM to 4 PM Monday through Friday. To contact the office call (717) 477-1148.

Office of Graduate Admissions

The Office of Graduate Admissions, located in Old Main 105, provides all services related to recruitment and admission application processing. Office hours are 8 AM to 4:30 PM, Monday through Friday. Contact the office by calling (717) 477-1231 or sending e-mail to gradsch@ship.edu.

Office of the Registrar

The Office of the Registrar, located in Old Main 110, provides the following services: scheduling and registration, verification of graduate enrollment, application for graduation, requests for withdrawal, and application for change of program, name, and address. Office hours are 8 AM to 4:30 PM, Monday through Friday. Contact the office at (717) 477-1381.

Travel Times

The interstate highway system puts Shippensburg within reasonable travel time of numerous East Coast cities:

Harrisburg	1 hour
Frederick	1 hour
Baltimore	2 hours
Washington, D.C.	2 hours
Philadelphia	2.5 hours
Pittsburgh	3 hours
New York City	4 hours

Directions

If your point of departure is ...

East of Shippensburg: Use Pennsylvania Turnpike Exit 226 (Carlisle) to I-81 south. Take I-81 to Exit 29.

West of Shippensburg: Use Pennsylvania Turnpike Exit 201 (Blue Mountain) to Route 696 south.

North of Shippensburg: Take I-81 south to Exit 29.

South of Shippensburg: Take I-81 north to Exit 24.

Statements of Compliance

The Office of Social Equity, located in Old Main 200, coordinates the university's compliance with laws and regulations relating to equal opportunity, sexual harassment, and "reasonable" accommodations for persons with disabilities. Any questions or complaints should be directed to the Director of Social Equity at (717) 477-1161.

Equal Opportunity

In compliance with state and federal laws, including Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and the Americans With Disabilities Act of 1990, Shippensburg University of Pennsylvania is committed to human understanding and provides equal educational, employment, and economic opportunities for all persons without regard to race, color, sex, national origin, or disability.

Sexual Harassment

In compliance with federal and state laws, Shippensburg University prohibits behaviors which assert unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature which can constitute sexual harassment. Shippensburg University is committed to civil rights and will promptly investigate allegations of sexual harassment and take appropriate corrective action in cases of valid complaints.

People with Disabilities

Section 504 of the Rehabilitation Act of 1973 provides that people with disabilities may not be excluded from programs which benefit from federal assistance. These rights were strengthened in 1988 with the Civil Rights

Restoration Act and the Americans with Disabilities Act of 1990.

Shippensburg University complies with all laws and regulations which protect students and employees with disabilities. Reasonable accommodations will be made where appropriate to provide equal access to an education for all individuals.

Policy for Religious Observances for Students

It shall be the position of Shippensburg University to respect the principle of the separation of church and state, while promoting and encouraging a climate of dignity where individuals are not discriminated against or treated differently because of their religion or national origin.

To foster and advance the precepts of an inclusive environment, students desiring to participate in the religious observances of their particular faiths, creeds or beliefs will be granted an excused absence from scheduled classes. Faculty will make appropriate accommodations for the excused absence(s), and students will be accountable for the material covered in class. Each academic semester students will be required (in writing) to provide their faculty with the dates of scheduled religious observances.

Access to Educational Records

In accordance with the Family Educational Rights and Privacy Act of 1974 (commonly known as the Buckley Amendment), Shippensburg University provides its students with privacy safeguards of their educational records. The university issues reports of progress including grades, written evaluations, and letters of warning directly to the student. A student may have access to all information pertaining to his or her educational records and academic status.

Under the provisions of the Buckley Amendment, the university may release directory information about current students without violating privacy rights. Directory information includes name, address, telephone number, e-mail address, enrollment status,

major, degree, and honors. Individual students may request this directory information *not* be released by notifying the Registrar's Office.

Drug-Free Campus

Shippensburg University complies with the Drug-Free Schools and Communities Act Amendment of 1989 and has adopted a program to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by both its students and employees.

Campus Safety

In accordance with Pennsylvania's College and University Security Information Act of 1988, Shippensburg University provides information relating to crime statistics and security measures to prospective students, matriculated students, and employees. The university will also comply with all campus safety provisions of the Student Right-To-Know and Campus Security Act of 1990.

Right-To-Know

Shippensburg University will compile graduation and completion rates for all undergraduate students as well as for undergraduate students receiving athletically-related student aid. These rates will be reported to the U.S. Secretary of Education and will be disclosed to prospective students as required by the Student Right-To-Know Act.

Consumerism

Shippensburg University complies with consumer information requirements set forth in Section 493A of Title IV of the Higher Education Act of 1965 and its amendments.

Veteran's Benefits

Shippensburg University complies with the requirements of Title 38, U.S. Code, Veteran's Benefits.

Nonimmigrant Alien Students

Shippensburg University is authorized under federal law to enroll nonimmigrant alien students.

procedures, or fees described in this catalog and to apply these changes to any or all of its students as it sees fit. The university may also choose to add or delete course offerings or degree programs at any time.

Educational Diversity

As part of a public system of higher education, Shippensburg University is responsible for educating students to face the challenges of our ever-changing global society. Shippensburg University aims to create a campus culture that offers opportunities for increasing knowledge, awareness, and understanding of diversity and inclusiveness and promotes a climate which builds upon values that welcome and nurture all members of the university community. Creating an inclusive campus environment helps to prepare students to be productive public citizens in a society comprised of people with differing national, racial, religious, and cultural backgrounds.

Shippensburg University seeks to attain these goals by offering academic and co-curricular activities that address the differences that have historically divided people and have led to unjust and discriminatory practices based on race, sex, religion, national origin, and sexual lifestyle. The university also remains committed to the recruitment and retention of a broad, inclusive student body, faculty, staff, and administration who represent a diverse range of interests, talent, and cultures. By working to accomplish these goals, Shippensburg University will ensure students receive an education that prepares them for the challenges of a global society with its diverse beliefs, attitudes, and ways of thinking.

Catalog Provisions

This catalog is intended to be a description of the policies, academic programs, degree requirements, and course offerings in effect for the 2006/2007 and 2007/2008 academic years. It should not be construed as an irrevocable contract between the student and the university. Shippensburg University reserves the right to change any of the policies,

Admission Policies and Procedures

A student must be formally admitted to a graduate degree program to take courses.

Admission Policies

The following policy governs admission to all graduate degree programs.

In order to be considered for graduate study at Shippensburg University, you must present a bachelor's degree from a college or university that is accredited by the appropriate regional accrediting agency. Academic departments at their discretion may require an interview, résumé, writing sample, goal statement, letters of recommendation, or testing such as the Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT), or the Miller Analogies Test (MAT).

As evidence of your ability to successfully complete a graduate program of study, you should have a cumulative undergraduate quality point average of at least 2.75 as determined by a grading system in which A equals 4.0 quality points. If you have less than a 2.75 undergraduate quality point average, you will be required to submit other evidence of your ability to successfully complete the program for which you are applying. This evidence may include a personal interview with the academic department and/or a standardized test.

Individual graduate degree programs may have their own specific requirements for admission. Information on these requirements may be found under the description of the degree program. If you are applying for a program in a field which is different from your undergraduate major, you may be required to take additional undergraduate courses as a condition of your admission. You will be notified of this at the time you are admitted. These courses, which do not count toward your degree requirements, should be completed early in your program of study.

Your application for admission will be reviewed by the academic department to which you are applying. The department will then make a recommendation to the Dean of Enrollment Services. You will be officially

notified of a decision by the Office of Graduate Admissions.

An offer of admission to graduate study requires you to matriculate and begin at Shippensburg University within one year of the semester for which you have been admitted. If you do not matriculate by enrolling in graduate course work at Shippensburg within one year, you must submit a new application and pay an additional application fee.

Students applying for a second master's degree or additional certification at Shippensburg University after an absence of more than one year must submit an updated application. No additional application fee is required.

Admission Procedures

Applicants for admission to Shippensburg University should e-mail admiss@ship.edu, write, or call (717) 477-1213 or toll free 800-822-8028 the Office of Graduate Admissions and request an application. They may also apply on-line at www.ship.edu/admiss.

Applications are accepted for the fall or spring semesters or the summer terms. Complete and submit the application together with a non-refundable fee of \$30 to the Office of Graduate Admissions. Checks should be made payable to Shippensburg University. You should make arrangements with other colleges and universities you have attended to have official transcripts sent to the Office of Graduate Admissions. You must submit transcripts from any institution where you have taken undergraduate or graduate work. It is not necessary to submit a transcript of work taken at Shippensburg University.

Candidates are encouraged to submit applications as soon as possible to the degree program of choice. Please refer to the individual departmental descriptions or www.ship.edu/admiss for more specifics.

Examinations

Certain departments require you to present standardized test scores either as a regular admission requirement or for those students whose undergraduate quality point average is

less than 2.75 on a 4.0 scale. Information on these requirements may be found under the description of the degree program.

Miller Analogies Test

Some departments require applicants to take the Miller Analogies Test (MAT). Shippensburg University is an official testing center for the MAT for Harcourt Assessment, Inc. of San Antonio, Texas. Information regarding the test and the testing dates is available in the Office of Graduate Admissions or at www.ship.edu/admiss. The fee for anyone who takes this test at Shippensburg University is \$45 (subject to change).

Graduate Record Examination

Some departments require applicants to take the Graduate Record Examination (GRE). Shippensburg University is an official testing center for the GRE subject test only for the Educational Testing Service of Princeton, New Jersey. Applications and information on the GRE General Test are available in the Office of Graduate Admissions and at www.ets.org/gre <http://www.ets.org/gre>.

Graduate Management Admission Test

Applicants to the Master of Business Administration (MBA) are required to submit official scores for the Graduate Management Admission Test (GMAT) only if their overall quality point average is below 3.0. Information regarding the test is available in the Office of Graduate Admissions and on the web at www.mba.com.

Provisional Admission

Occasionally an applicant will present an undergraduate academic record and standardized test scores which do not provide evidence of his or her ability to successfully complete a graduate degree program. These applicants may request additional consideration based on special circumstances or other factors. The academic department may then recommend the applicant be admitted to the graduate degree program on a provisional basis.

Provisional admission gives such students the opportunity to demonstrate their ability to do course work at the graduate level. The department will require a certain number of credits to be completed (generally six to nine credits) with appropriate grades. The student's status is then reevaluated at the end of the provisional semester to determine if he or she should be admitted as a regular degree student.

Students with provisional status are not eligible for appointment as graduate assistants.

Other Admission Categories

Non-Degree Students

If you are a college graduate not planning to enroll in a degree program, you may apply and register as a non-degree graduate student. You must complete the graduate non-degree application in order to register. The application is available from the Registrar's Office at www.ship.edu/admin/registrar.

As a non-degree student, you may enroll for any graduate course for which you have the necessary prerequisite course work, with the approval of the academic department offering the course. Certain courses may not be available to non-degree graduate students. Academic departments may restrict enrollment in their courses or give scheduling preference to majors.

If you are planning to pursue a degree program you should not enroll as a non-degree student. While non-degree students may subsequently apply for a degree program, there is no assurance they will be admitted. Also, academic departments at their discretion may approve a maximum of nine credit hours of course work (with grades of B or higher) taken in non-degree status to count toward the master's degree. Non-degree students are required to meet the minimum academic standards outlined under Academic Policies and Procedures. **Applicants who have been denied admission to a degree program are not eligible for non-degree admission.**

International Students

Students from outside the United States who do not hold immigrant visas or permanent resident/resident alien status must complete an international application for admission. You may complete an application on-line at www.ship.edu/admissions/international or by requesting an application from the Office of Graduate Admissions.

Applicants for admission must have their complete academic records (transcripts, mark sheets, degree certificates, diplomas) evaluated by one of the following professional evaluating services: Educational Credential Evaluators (ECE) or World Education Services (WES).

Educational Credential Evaluators, Inc.
P.O. Box 514070
Milwaukee, WI 53204-3470
USA

ECE Phone number: (414) 289-3400
ECE Fax number: (414) 289-3411
ECE E-mail: eval@ece.org
ECE Website: www.ece.org
OR

World Education Services
P.O. Box 745, Old Chelsea Station
New York, New York 10011-0745
USA

WES Phone number: (800) 937-3895
WES Fax number: (212) 966-6395
WES E-mail: info@wes.org
WES Website: www.wes.org

ECE or WES will then forward their official evaluation of your credentials to the Office of Graduate Admissions. When we have received the evaluation, we will process your application for admission.

International applicants who have English as a second language must present an official TOEFL score report sent directly to us from the Educational Testing Service (ETS).

All materials including admission application and fee, official TOEFL score report, credential evaluation results, and

financial information should be submitted to the Office of Graduate Admissions.

Immigration regulations require an affidavit of support and a current bank statement if the support is not furnished by an official governmental or international agency. In order to receive the I-20 document (required to apply for your F-1 student visa), you must be admitted to the degree program AND have your financial information (affidavit of support, current bank statement, and income verification) approved by our Director of International Programs. An I-20 will not be issued prior to receiving and reviewing the required documents listed above.

Upon arrival on campus, students holding F-1 visas should report to the Director of International Programs located in the Student Life Center, McLean Hall. Bring your passport, I-94, and student copy of the I-20.

Please be advised that students on the F-1 visa must be enrolled in full-time degree programs in order to maintain their immigration status. The master of science in information systems (MSIS) is a PART-TIME ONLY program. Therefore F-1 students are not eligible to pursue this degree program.

International students are required to pay out-of-state tuition and are not permitted to work off campus without proper authorization. Limited on-campus employment is sometimes available for qualified students. All international students are required to carry adequate health and accident insurance.

Further questions regarding international students at Shippensburg University should be addressed to the Office of International Programs, Student Life Center, McLean Hall, 1871 Old Main Drive, Shippensburg, PA 17257-2299 USA, (717) 477-1279.

Transfer Students

Shippensburg University may admit to its graduate program transfer students from other accredited graduate schools provided they are in good standing in those schools and satisfy all other admission requirements. A maximum of nine credit hours of graduate course work earned at another institution may be accepted as transfer credit towards a graduate degree.

The courses must be part of a graduate degree program at the sponsoring institution and must be appropriate for the student's program at Shippensburg University. In order to be evaluated for transfer credit, courses must be listed on an official graduate transcript with a final grade of B or higher. Credit earned more than five years prior to the date you begin your graduate program at Shippensburg does not qualify for transfer credit.

The academic department of the graduate degree program to which you are applying does a transfer credit evaluation. Additional documentation (such as catalog course descriptions) may be required to complete this process.

Condensed one-week graduate courses for three graduate credits do not qualify for transfer credit. A maximum of one graduate credit can be earned for one week of attendance in class, in a conference, or any other educational experience for which graduate credit is granted. Non-college educational experiences do not qualify for graduate transfer credit.

Special Admission

Graduates of accredited colleges who wish to register for up to six credit hours in special programs offered by Shippensburg University may apply for special admissions. No application fee is required and an undergraduate transcript does not have to be submitted.

This category of admissions is restricted to certain special programs. Students in this category who subsequently wish to be admitted to a degree program must complete a regular application and pay the application fee.

Academic Policies and Procedures

As a graduate student at Shippensburg University, you will need to understand and follow all academic policies and procedures in order to successfully complete your course of study. University officials such as your faculty advisor, department chair, and academic dean can provide assistance, but it is ultimately your responsibility to be aware of policies relating to grading, academic progress, withdrawal from courses, and requirements for graduation. This chapter explains the general academic policies for graduate students. The chapter on *University Curricula* discusses the specific requirements for individual graduate degree programs.

Applicable Policies

In general, you will be subject to the academic policies and degree requirements which are in effect during the semester you matriculate in a particular graduate program at Shippensburg University. You matriculate for this purpose by being admitted to a graduate degree program and then registering for and starting an academic semester. If you begin taking classes in the summer, you will be considered as matriculating in the fall semester.

This catalog is intended to be a description of the policies, academic programs, degree requirements, and course offerings in effect for the 2006/2007 and 2007/2008 academic years. It should not be construed as an irrevocable contract between the student and the university. Shippensburg University reserves the right to change any of the policies, procedures, or fees described in this catalog and to apply these changes to any or all of its students as it sees fit. The university may also choose to add or delete course offerings or degree programs at any time.

Time Definition

Many policies in this catalog refer to time periods such as “the first week of the semester.” A week of the semester (or “week of classes”) is defined as seven (7) calendar days beginning with and including the first day of daytime classes. For example, if daytime

classes begin on a Thursday, the first week of the semester ends the following Wednesday at the official closing time of university offices (usually 4:30 PM).

Graduate Council

Within the university’s governance structure, the Graduate Council is responsible for recommending the policies that govern the operation of the graduate program. These recommendations include graduate courses and degree programs, admissions procedures and standards, graduate assistant policies, and requirements for good academic standing. Membership in the Graduate Council includes graduate faculty, college deans, the Dean of Graduate Studies, and a representative of the Graduate Student Association Board.

Department Chairs and Deans

Academic decisions concerning individual graduate students are generally made by a recommendation from the student’s department chair to the dean of the college in which the department is located. Such decisions include admission to a degree program, admission to candidacy, recommendations for independent study or individualized instruction, substitution or modification of degree requirements, extension of time for completing a degree, and final approval for graduation. Decisions of the deans are subject to review by the Dean of Graduate Studies.

Grading and Point System

The following system of grades is used to indicate the quality of academic work for graduate students:

Regular Letter Grades

<i>A</i>	Excellent
<i>A-</i>	
<i>B+</i>	
<i>B</i>	Good
<i>B-</i>	
<i>C</i>	Fair
<i>F</i>	Failure

Special Grades

<i>I</i>	Incomplete
<i>Q</i>	Deferred grade
<i>P</i>	Passed
<i>TR</i>	Transfer Credit
<i>N</i>	Audit (no credit)
<i>W</i>	Withdrawal

Individual faculty members may choose to use single letter grades and not award plus/minus grades.

Quality Point Average (QPA)

Your quality point average or QPA is determined by assigning numerical values to the letter marks and weighing them according to the number of class hours. The values assigned to the letters are:

<i>A</i>	4.0 quality points
<i>A-</i>	3.7 quality points
<i>B+</i>	3.3 quality points
<i>B</i>	3.0 quality points
<i>B-</i>	2.7 quality points
<i>C</i>	2.0 quality points
<i>F</i>	0.0 quality points

To calculate your QPA, follow these steps:

1. Compute the number of quality points earned for each course by multiplying the value of your letter grade by the number of credits earned. For example, a grade of B (3 points) in a 3 credit course earned 9 quality points.
2. Add up the quality points earned in all your classes.
3. Add up the number of credits attempted in all your classes. This total should include all classes in which you received a regular letter grade (A through F).
4. Divide the total number of quality points earned by the total number of credits attempted. This is your QPA.

Only courses in which you received a regular letter grade (A through F) are used in calculating your QPA. Courses which you have repeated will have an impact on the way your QPA is calculated. See the section on *Repeating Graduate Courses* for details.

Your *semester* QPA is the average for one semester or summer term, while your *cumulative* QPA refers to the average for all courses completed during a graduate degree program. A B average would be the equivalent of a 3.0 QPA.

Temporary Grades

The grades Q and I are temporary grades which mean you have not completed all the requirements for a particular course.

With prior approval of the appropriate dean, the grade of Q (deferred grade) may be awarded for courses such as research, thesis, and internship which are planned from the start to extend over more than one grade period. If you receive a Q grade in a course, you should work closely with the instructor to plan a schedule in order to complete the work within three years at most, or the grade will be changed to an F.

The grade of I (incomplete) can be given if you are unable to complete the requirements of a course due to a serious illness, death in the family, or other personal emergency. To request an incomplete in a particular course, you should apply directly to the instructor of the course. Apply to your college dean if you are unable to complete the requirements for all your courses. If the dean or instructor considers your reason for requesting an incomplete satisfactory, he/she will approve it. If you do not complete the work for a course in which you received a grade of I by the end of the next full semester, you will receive a grade of F for the course. You may not graduate from the university with a temporary grade on your record.

Other Types of Grades

A grade of P is given for courses where you successfully complete the requirements of the course and a letter grade is not appropriate. Examples of such courses include internships and other field experiences. If you register for such a course and do not complete the requirements, a grade of F will be given.

Credits you earn at another institution that are accepted towards your degree at Shippensburg are indicated with a grade of TR. See the *Transfer Credit* section for further details.

Credits earned with grades of P or TR will be counted towards the total number of credits

required for your degree, but they are not used in calculating your QPA.

A grade of "N" indicates you have audited a class. When you audit, you can attend class and participate in class activities, but you do not receive academic credit. You may audit a course by receiving the written permission of the instructor and approval of your dean on an audit form. This form must be returned to the Registrar's Office during the first week of the semester. You must schedule and pay the regular fee for any courses you audit, and you may not receive credit or a grade for these courses at a later date.

W grades indicate courses from which you withdrew. Further information may be found in the section *Withdrawal from a Class*.

Academic Progress and Standing

Your progress in each class is regularly evaluated by the course instructor. Instructors schedule office hours to allow you to confer regarding academic achievements or particular problems with course work. At the end of each semester a final grade is recorded on your permanent record for each course taken.

Full-Time Status

Nine credit hours per semester is considered a full-time load for a graduate student, with 15 credit hours as the maximum for which a full-time graduate student may register per semester. Students taking less than 9 credit hours are considered part-time.

Issuance of Grades

In accordance with the Family Educational Rights and Privacy Act, commonly known as the Buckley Amendment, students are provided with privacy safeguards of their educational records. The university issues reports of progress including grades, written evaluations, and letters of warning directly to the student. You may have access to all information pertaining to your educational records and academic status. At the end of the

semester, grades will be posted on the university website.

Grade Appeals

- (I) Introduction – A graduate student contemplating filing a grade appeal understands that consistent with the practice of academic freedom, faculty bear responsibility for assigning course grades in accordance with professionally acceptable standards which have previously been communicated to students verbally or in writing. At the same time, students have the right to ensure grades are calculated accurately and consistently, fairly and equitably, and without discrimination.

Note: Any grade appeals or grade change requests initiated on the basis of alleged academic dishonesty shall be handled under the procedures set forth for academic dishonesty discussed later in this chapter.

- (II) Basis for Appealing a Final Course Grade – Graduate students may appeal a final course grade assigned to them by an instructor based on one of three conditions:
- A. The course instructor miscalculated the final course grade.
 - B. The course instructor committed an oversight in calculating the final course grade.
 - C. The course instructor acted in an arbitrary and/or capricious manner in assigning grades to the student, including the final course grade to the student.

A discriminatory, arbitrary, and/or capricious manner in assigning grades is defined as follows:

The instructor assigned a course grade to a student on some basis other than performance in the course;

The instructor assigned a course grade to a student by resorting to unreasonable standards different from those which were applied to other students in that course; or

The instructor assigned a course grade to a student in a manner that represented a substantial, unreasonable, and unannounced departure from the instructor's previously articulated standards.

(III) Selection and Composition of the Academic Appeals Committee

1. Composition of the Academic Appeals Committee – The Academic Appeals Committee of the department or program shall consist of a minimum of three regular tenure track faculty members in the department or program (excluding the department chairperson or program director) and an equal number of students who are majors in the program, with a faculty member and student serving as co-chairs. In the event a faculty or student member of the Academic Appeals Committee is a party in a grade appeal an alternate previously selected shall serve in his or her place.
2. Selection of Academic Appeals Committee Members – Within the first week of the fall semester, each academic department or program shall elect at least three faculty members and one faculty member alternate to serve on the Academic Appeals Committee for the academic year and designate three graduate students and one graduate alternate enrolled in the academic program to serve on the Academic Appeals Committee. Each academic department or program shall develop a standard process for selecting student members for

the Academic Appeals Committee. By the end of the first full week of the Fall semester, the names of the faculty and student members of the Academic Appeals Committee and alternates selected for each academic year shall then be forwarded to the graduate dean's office by the end of the first full week of the fall semester. In the event a program lacks sufficient faculty to staff the Academic Appeals Committee and provide a faculty alternate member it shall notify the dean of the college in which the program is located. The dean's office shall provide assistance in identifying a suitable pool of faculty from the college to staff the Academic Appeals Committee and provide an alternate member for the committee if the need should arise.

(IV) Timetable and Procedures for the Grade Appeal Process – Compliance with all timelines set forth in this policy is required.

A student may initiate a grade appeal any time after receiving a final grade in a course. Grade appeals, however, cannot be initiated after thirty (30) calendar days following the onset of the next regular (fall or spring) academic semester. Should the deadline for completing a step in the grade appeal process set forth below fall on a day that the university is not open for business that deadline shall be moved to the next date the university is open for business.

In the event a faculty member, department chairperson, or program director (or chair of the department's Professional Affairs Committee if necessary) fails to comply with the timelines or procedures set forth in this policy, the student shall have the right to appeal to the dean of the college in which the appeal has arisen. If the dean shall determine the student's rights under this policy have been violated he or she shall direct the department to schedule the Formal Grade Appeal Hearing in

a timely fashion consistent with the intent of the policy.

- A. Meeting with the Faculty Member Assigning the Final Course Grade – Following notification of a final grade assigned in a course a student disagreeing with a final course grade shall meet informally with the course instructor in an effort to resolve the matter prior to resorting to the formal appeal process.* This informal meeting between the student and the faculty member assigning the disputed grade shall occur no later than thirty (30) calendar days following the beginning of the next regular (fall or spring) academic semester.** If the faculty member finds in the student’s favor, a grade change will be sent to the Registrar’s Office after the program chair has signed the grade change form. A copy will be sent to the student. However, if the faculty member decides the grade as given was correct, the student will be notified in writing within seven (7) calendar days. Students who are not satisfied with the results may initiate a formal appeal of the final grade assigned in the course, as outlined below.

*In the event the faculty member assigning the final grade in the course is no longer an employee of Shippensburg University the student desiring to appeal a course grade shall meet with the department chairperson or program director to establish procedures consistent with this policy and past practice for entertaining the desired grade appeal.

** Note: Shippensburg University policy permits faculty members to change grades if there has been a miscalculation or oversight in grading, but not on the basis of additional student work or revision of previously accepted work.

- B. Initiating a Formal Grade Appeal – Students wishing to formally appeal a final course grade based on the factors listed in Section II. Basis for Appealing a Final Course Grade, must file a written appeal with the department chairperson or program director of the academic program home to the course whose grade they are seeking to appeal no later than thirty (30) calendar days from the first full day that classes meet of the semester following the semester in which the final course grade was assigned. Appeals may not be filed electronically. Failure to meet the deadline for formally filing a grade appeal shall result in the forfeiture of a student’s appeal rights.*** A student wishing to pursue a grade appeal shall by this date submit to the department chairperson or program director (or chair of the department’s Professional Affairs Committee in the event that the student is appealing a grade assigned by the department chairperson or program director) the completed grade appeal form, signed and dated, and supporting documentation which shall set forth the basis for the appeal and the desired resolution. Appeals from the Spring semester and Summer terms shall be filed no later than thirty (30) calendar days from the first day of the Fall semester. An undergraduate grade appeal form may be obtained in the department office of the major/program where the appeal is filed or from the graduate dean’s office. Formal Grade Appeals may not be filed electronically.

***Note: Both the informal attempt at resolving the disputed grade with the faculty member assigning such grade and the formal

initiation of a formal grade appeal must be completed no later than thirty (30) calendar days from the first full day that classes meet of the semester following the semester in which the final course grade was assigned.

C. Meeting with Department Chairperson or Program Director – Within ten (10) calendar days of receiving a completed grade appeal form, the program chairperson shall meet individually and/or jointly, if useful, with the student and the faculty member to discuss the disputed grade in an effort to mediate an amicable resolution to disagreement over the final grade assigned. Such meeting(s) may occur in person or via conference call if necessary. The mediated result must be given in writing to both the student and faculty member. The department chairperson or program director will notify the faculty member a formal appeal has been filed.

D. Formal Program Grade Appeal Hearing – If the student finds the mediated effort fails to address his or her concerns or achieve the desired results, he or she must notify the department chairperson or program director in writing within fourteen (14) calendar days of the meeting with the program chairperson (or designee) of his or her desire to continue on to the formal grade appeal hearing before the Academic Appeals Committee of the program. Failure to meet this fourteen (14) day deadline for proceeding with the formal grade appeal shall result in the forfeiture of a student's appeal rights, except as noted in Paragraph IV.

Scheduling of the Academic Appeals Hearing – Upon notification by the student of

his or her desire to continue with the appeal, the Academic Appeals Committee shall have ten (10) calendar days to conduct a hearing on the matter and to issue its findings and recommendations.

An equal number of students and faculty, but in no case fewer than four members, shall be present at an Appeals Hearing.

Conduct of the Academic Appeals Hearing – The chairpersons of the Academic Appeals Committee shall have sole responsibility for the conduct of the hearing. Prior to the hearing the student shall submit to the committee a written statement setting forth the issue(s) in the dispute and the desired resolution. Only the student and the faculty member in the dispute have the right to attend the hearing. Both the student and faculty member involved in the grade appeal shall have the right to be present during the grade appeal hearing itself. Both the student and the faculty member have the right to introduce materials into the hearing that are directly relevant to the assignment of the final grade in the course, including such items as:

- Course syllabi as given to the student
- Graded assignments such as, but not limited to, journals, research papers, group projects, examinations
- Other material relevant to the determination of the student's final course grade

E. Decision of the Academic Appeals Committee – Only the

actual members of the graduate Academic Appeals Committee shall be present during the discussion and deliberations on the outcome of the student's grade appeal. The Academic Appeals Committee's deliberations shall be viewed as confidential and no transcripts, notes, or records shall be made regarding their discussion other than a record of their final decision. The committee has the power to decide the outcome of the final grade dispute by simple majority vote taken by secret ballot. A tie vote upholds the faculty member's decision in the case. If the committee sustains the appeal (i.e., rules in favor of the student) a grade change form will be sent to the Registrar's Office after being signed by the program chair. With the exception of the grade, no part of these proceedings will become part of the student's official academic record. In addition, no part of these proceedings will become part of the faculty member's record or file. The evidence, proceedings, and the final decision of the Academic Appeals Committee shall remain confidential.

- (V) Request for Reconsideration – A student whose grade appeal has been denied may file a written request for reconsideration within seven (7) calendar days with the appropriate academic dean of the college in which the academic program is housed upon the following grounds:
- A demonstration of substantial procedural irregularities or inequities in the conduct of the hearing.
 - The student provides substantial new evidence that was not available at the time

of the hearing that would have had a bearing on the outcome of the appeal.

- The student is able to demonstrate that the Academic Appeals Committee's decision was erroneous or unfair.

In the absence of a written request for reconsideration of the committee's decision filed with the appropriate academic dean in the college wherein the appeal arose within the specified seven (7) day period, the committee's initial findings and action on the appeal filed shall be final.

- (VI) Reconsideration of the Academic Appeals Committee Determination – Within seven (7) calendar days of the request for reconsideration, the dean shall determine whether a compelling reason has been presented for setting aside the initial decision of the Academic Appeals Committee. If the dean finds a compelling reason exists to take such action he or she may direct the committee to reconsider their findings and determination or take other appropriate action consistent with the guidelines.

Upon direction from the academic dean of the college in which the grade appeal arose, the Academic Appeals Committee shall have ten (10) calendar days to reconvene and reconsider their initial decision on the grade appeal. The committee in undertaking such review and reconsideration shall examine and take into account the concerns raised by the dean.

Following review and reconsideration by the Grade Appeals Committee, the decision of the grade appeals committee shall be final.

Minimum Academic Standards

As a graduate student at Shippensburg University, you are expected to maintain satisfactory academic standing which requires a cumulative QPA of 3.0 (B) or better in your total program of courses. If your cumulative

QPA drops below 3.0 you will be placed on academic probation.

Students on probation must raise their QPA to 3.0 by the end of the next semester (or full summer term) in which they register. An additional probationary semester may be granted at the discretion of the college dean.

If you fail to meet the conditions of academic probation you are subject to dismissal.

Some programs may require undergraduate courses be taken while a student is enrolled in a graduate program. In this event, students must follow the standards for undergraduate courses that have been determined by the department, and the university will follow those standards for dismissal when appropriate.

In addition, some programs may require higher standards than listed above because of limitations imposed by accreditation agencies and societies. Such requirements are provided by departments administering these programs.

Dismissal for C Grades

You may earn only one C grade in any graduate course taken at Shippensburg University. This includes any courses which have been repeated and replaced with a higher grade. If you earn two C grades you will be dismissed from the university.

A C grade earned at Shippensburg University may not be made up at another institution of higher learning for the same course.

Dismissal for F Grades

If you earn an F grade in any graduate course taken at Shippensburg University, you will be dismissed from the university.

An F grade earned at Shippensburg University may not be made up at another institution of higher learning for the same course.

Notice and Appeal

If you are academically dismissed you will be notified in writing by the Registrar's Office. You may appeal your dismissal by writing a letter to your college dean (with a copy to your

department chair) by the date indicated in the dismissal letter. All appeals will be considered by the Academic Review Committee.

Readmission of Dismissed Students

If you are dismissed for academic reasons, you may not apply for readmission to the university for at least one calendar year following your dismissal. Students who are dismissed may not take classes as a non-degree graduate student and may not apply for admission to a different graduate degree program at Shippensburg.

To apply for readmission, you must submit the appropriate application form to the Registrar's Office with the regular application fee. Readmission is never guaranteed following academic dismissal. It may only be granted if you present compelling evidence of some fundamental change which will allow you to perform academically at the level needed to graduate.

Earning Academic Credits

You may earn graduate academic credits at Shippensburg University in several ways: by taking normal course work at the university, by working on internships, through independent study projects, and by taking courses at other accredited institutions for transfer back to Shippensburg University.

Scheduling Classes

The normal semester hour work load for graduate students varies between 9 and 15 credit hours. Students with less than 9 credit hours are classified as part-time.

Current and newly-admitted graduate students will be able to access scheduling information for the upcoming semester on-line. You may schedule classes during the on-line scheduling period held each semester for the next semester. If you schedule after the deadline announced on-line, you will be subject to a late registration fee.

If you have an outstanding obligation to the university, a hold may be placed on your account and you will not be permitted to

schedule. Reasons for holds include but are not limited to: unpaid tuition or fees, library fines, and final transcripts not submitted. It is your responsibility to satisfy the obligation with the office which placed the hold before you will be allowed to schedule.

Registration

Registration is the process wherein students make payment for scheduled classes. It is the policy of Shippensburg University that students who fail to make appropriate, acceptable payment arrangements by the published deadline will have their semester schedule canceled.

When a schedule is canceled, the student may attempt to reschedule in the Registrar's Office, subject to class availability. Payment is required at the time of rescheduling.

Students who have not registered for class(es) by the end of the W grade period will not receive any credit or grades for the course(s). Payment cannot be made and a grade retroactively assigned.

Dual-Level (400) Courses

Courses with numbers from 400 to 499 are open to graduate and advanced undergraduate students. Graduate students enrolled in 400-level courses are expected to meet the customary standards appropriate to graduate-level studies. These standards are reflected in the specific requirements found in syllabi for each of the 400-level courses. A maximum of 12 semester hour credits of 400-level courses may be applied to the master's degree requirements.

Undergraduate Courses

Graduate students may take undergraduate courses to make up deficiencies, fulfill prerequisites, or meet certification requirements. If you take an undergraduate course, it will be recorded on your graduate transcript along with the grades earned. The credits earned will not be counted towards the master's degree, and the grades are not used in calculating your quality point average.

Withdrawal from a Class

Courses may be added or dropped without penalty or record notation during the official schedule adjustment period held at the beginning of the semester. Dates for this schedule adjustment period will be announced by the Registrar's Office and will be the end of the first week of the semester (for classes which meet more than once a week) or the day of the second class meeting (for classes which meet once a week).

You may withdraw from a class through the eighth week of the semester. Requests for withdrawals must be initiated through the Registrar's Office. Following the initial schedule adjustment period, any courses from which you withdraw remain on your academic record and will be assigned a grade of W. If you withdraw after the beginning of the ninth week of the semester you will receive an F grade.

You may be allowed to withdraw from all your classes with grades of W after the normal withdrawal period if you provide to your college dean clear medical evidence you are unable to continue your course work. It will be the determination of the dean whether this evidence is substantial enough to merit a medical withdrawal. If you receive a medical withdrawal, you will be eligible for a refund only if your withdrawal occurs within the time period normally allowed for refunds.

Students enrolled in the JCJC weekend program must notify the Registrar's Office they are withdrawing by the Friday following the first weekend of classes to be eligible for a refund. Withdrawals which occur after that time will not be eligible for a refund.

Independent Study

Shippensburg University affords opportunity to deserving and capable graduate students to engage in independent study related to their major field, a supporting area or specialized interest. This program is highly individualized, related entirely to the student's preparation and interest and the overall appropriateness of study as judged by the department and college dean.

Independent study must include some new experience of inquiry, evaluation, and/or creative activity. This experience must be one which is not available through an established course, including a course by appointment.

To be selected and approved for an independent study project you should have a cumulative QPA of at least 3.0. Your project must be agreed to by the faculty member you would like to work with and then approved by your department chair and academic dean as well as the faculty member's chair and dean. Final approval is required from the Dean of Graduate Studies and the Provost and Vice President for Academic Affairs. You must register for the independent study project in the semester for which it is approved.

The acceptance of independent study students shall be voluntary on the part of the faculty member; however, when such students are accepted, at least five hours of faculty time per credit offered shall be made available upon request of each student. This time shall be outside the periods already allocated by the faculty member to classroom and office commitments.

In some unusual cases it is possible for independent study to span several semesters if the department chair(s) and college dean(s) are convinced of the need. A special designation by the dean will indicate approval for continuation of the independent study. A grade will be given during the semester of its completion only. At the time a grade is given, there should be a one-page written record of the completion and the evaluation of the independent study project prepared and signed by both the student and the faculty member. A copy should be placed in the college dean's office and, if desired, in the department office.

An independent study course may not be used to repeat or replace a course in which a grade of F was earned.

Individualized Instruction

In some cases, you may be able to earn credit for a course during a semester in which the course is not offered. If a faculty member is willing to work with you on an individual basis, you may apply for individualized

instruction. These courses are generally restricted to students who have completed a substantial portion of their degree program and who need the particular course to complete their degree requirements.

Application forms for individualized instruction are available in the Registrar's Office. Your course must be agreed to by the faculty member you would like to work with and then approved by your department chair and college dean as well as the faculty member's chair and dean. Final approval is required from the Dean of Graduate Studies and the Provost and Vice President for Academic Affairs.

Internships

Experiential learning in the form of internships and field experiences is available to graduate students in many areas of study. You should contact your academic advisor or department chair for information regarding these academic opportunities.

To register for an internship at the graduate level, you must be enrolled in a graduate degree program at Shippensburg University and have a cumulative QPA of at least 3.0. The maximum credit for a graduate internship is six credit hours. Internship experiences are graded on a pass-fail basis only.

Internships must have the approval of your adviser, department chair, and college dean. When an internship is approved, you must schedule the appropriate number of credit hours and pay all course fees.

In those programs which include clinical components, practicums, and/or internships, each student's effectiveness and suitability for the program will be given a broad-based evaluation by faculty and/or supervisors. Final decisions regarding continuance of studies will be predicated on a combination of factors such as demonstrated clinical competence, personality factors, and other relevant issues in addition to course grades.

Repeating Graduate Courses

You may not repeat a graduate course in which you received a grade of B- or better.

You may repeat a course in which you received a C grade, with the permission of your academic department.

If you have been dismissed because you received an F and are readmitted, you may only repeat that failed course if the academic department grants permission. If you repeat a course, only the most recent grade will be used in calculating your cumulative QPA. You are limited to two repeat courses during a graduate degree program.

A C or F grade earned at Shippensburg University may not be made up at another institution of higher learning for the same course. Independent study or individualized instruction may not be used to repeat a course.

Transfer Credit

In order to meet the needs of individual students who are not transfer students, specialized work at other institutions may be recommended to a maximum of nine credit hours. If you are admitted to Shippensburg's graduate program and wish to take graduate courses elsewhere for transfer credit, you must receive prior approval from your adviser and from the Dean of Graduate Studies in order to insure transfer credit can be granted. A maximum of nine semester hour credits of graduate work earned at another institution will be accepted provided the courses are appropriate for your program at Shippensburg University, and the credits are received on an official graduate transcript with grades of B or higher.

Grades earned in courses transferred from other colleges and universities are not included in determining your quality point average in the graduate program at Shippensburg.

Credit earned more than five years prior to the date you begin your graduate program at Shippensburg University does not qualify for transfer credit.

Graduation Requirements

As a fulfillment of its obligation to higher education, Shippensburg University has established high standards of achievement and promise for its students which must be met

without question before graduation is approved by the faculty or the administration of the university. Specific requirements relating to individual master's degree programs may be found in the chapter *University Curricula*.

General requirements for the master's degree include a cumulative QPA of 3.0, the completion of all course work, the completion of any comprehensive requirement (including thesis), and the resolution of all outstanding judicial and/or academic dishonesty matters. Additional graduation requirements may also be required by academic departments.

Applications for graduation must be submitted to the Registrar's Office by the end of the second week of your final term.

Commencement ceremonies are generally held on the Saturday at the end of final examination week. A graduate of the university is expected to participate in the commencement ceremonies at the end of the semester in which they complete all requirements for graduation. Students who meet those requirements in August have the option to participate in either the preceding spring commencement ceremony or the following winter commencement ceremony. Students who, at the completion of either the fall or spring semester, are within six (6) credits of completing their degree requirements may apply to participate in the preceding semester's Commencement ceremony. Applications to participate in a ceremony prior to completion of all requirements are to be made to the dean of the student's college with final action by the Provost's Office. Approval will be granted only when warranted by unusual or exceptional circumstances, such as a student who will be studying abroad and unable to attend the appropriate ceremony.

Time Limit

All course work and research for the master's degree must be completed within a seven-year period beginning the semester you matriculate in the degree program. Extensions must be requested through your department chair and approved by your college dean and the Dean of Graduate Studies.

Advisement

When you are admitted to graduate study, the chair of your major department (or a designated representative) will assign you a program adviser. It is your responsibility to arrange an appointment with the program adviser as soon as possible to outline your program, taking into consideration previous work and your individual objectives. You should follow the curriculum as outlined for your field of specialization unless an adjustment is approved on the basis of previous work or experience. Although the program adviser will assist you in planning your program, you are responsible for knowing the curriculum requirements and seeing these requirements are met.

Admission to Candidacy

Some academic departments require you to apply for and be admitted to candidacy in order to complete the program of study leading to the master's degree. The candidacy process is used to review your progress and compliance with academic policies.

Departments requiring candidacy may establish their own guidelines. Contact your department for further information.

Research Requirement

All master's degree programs must require an appropriate research and/or statistics course.

Comprehensive Requirement

The completion of a master's degree must have an evaluation or a culminating experience to be determined by each academic discipline. This requirement could be in the nature of a comprehensive written examination, an oral examination, an interview, proof of competencies being met in a program, or other similar evaluation activity which demonstrates mastery of subject area.

Double Counting

The concept of "double counting" credits to two different master's degrees is not encouraged. In certain cases, however, an

academic department may recommend a maximum of nine credits earned in one master's degree at Shippensburg be transferred to a second master's degree at Shippensburg University.

Thesis

Before registering for thesis you should confer with the department chair concerning the appointment of your research adviser and the other members of your thesis committee. The names of the adviser and committee members must be submitted to the Registrar's Office for approval at the time you register for the thesis. Registration for the thesis may be completed at the beginning of any semester or summer session. In planning work on your thesis, you should take into consideration faculty members are not always on campus during the summer sessions.

You may register for Thesis I and Thesis II concurrently or in different semesters. A temporary grade of Q will be recorded for a thesis when the work is not completed at the end of the semester. Only when the thesis is completed can a regular letter grade be recorded. Under no conditions may a regular letter grade be submitted unless the thesis is completed and signed by all thesis committee members.

You must submit the thesis to the Registrar's Office in final approved form within one calendar year from the date you register for Thesis II. Otherwise, you must register again for Thesis II and pay the appropriate course fees. If you do not complete the thesis within the required time and do not re-register for Thesis II, grades of F will be recorded for both Thesis I and Thesis II.

When registering for thesis credit, you must submit the Arrangements for Completing the Thesis Requirement for the Master's Degree form. For additional information, contact the Registrar's Office.

Academic Dishonesty

It is the policy of Shippensburg University to expect academic honesty. Students who commit breaches of academic honesty will be

subject to the various sanctions outlined in this section. This policy applies to all students enrolled at Shippensburg during and after their time of enrollment.

Definition

As used in this policy, the term academic dishonesty means deceit or misrepresentation in attempting (successfully or unsuccessfully) to influence the grading process or to obtain academic credit by a means not authorized by the course instructor or university policy. A breach of academic honesty is committed by students who give, as well as receive, unauthorized assistance in course and laboratory work and/or who purposefully evade, or assist other students in evading, the university's policy against academic dishonesty.

Academic dishonesty includes but is not limited to:

- Bribing, or attempting to bribe, faculty or staff personnel in order to attain an unfair academic advantage.
- Possessing course examination materials prior to administration of the examination by the instructor without the instructor's consent.
- Using unauthorized materials or devices such as crib notes during an examination.
- Providing and/or receiving unauthorized assistance during an examination.
- Using a substitute to take an examination or course.
- Misusing transcripts, records, or identification, such as forgery or alteration of transcripts.
- Allowing others to conduct research for you or prepare your work without advance authorization from the instructor, including, but not limited to, the services of commercial term paper companies.
- Plagiarism, as the term is defined in the section *Plagiarism*.
- Intentionally and without authorization falsifying or inventing any information or citation in an academic exercise, such as making up data in an experiment or observation.

The preceding list is only for purposes of illustration. Other forms of inappropriate conduct may also be subject to charges of academic dishonesty.

Resolution of Charges

When an instance of academic dishonesty is alleged, the issue should be resolved on an informal basis between the student and faculty member. If an informal resolution cannot be achieved, a formal process of deciding culpability and assessing sanctions will be followed. If the student has committed a previous violation, the formal process must be followed.

Informal Resolution

A faculty member who obtains information that a student has been dishonest should act promptly to resolve the issue. The faculty member should first contact the Dean of Students to determine if this is the first violation for the student. If the suspected incident is not the first, the offense must be handled through the formal resolution process.

For a first violation, the faculty member may attempt to resolve the issue informally with the maximum penalty to be a grade of F in the course. If the faculty member feels the offense warrants a more severe penalty, the matter must be resolved through the formal process.

For the matter to be resolved informally, the faculty member must meet with the student and present any evidence of a violation. The student will be given an opportunity to provide an explanation after hearing the evidence. If the faculty member determines a violation has occurred, he/she will complete the Settlement of a Charge of Academic Dishonesty form. This form will include the penalty that the faculty member will apply.

The form is then given to the student, who has 72 hours to seek advice and decide whether to sign. If the student agrees to accept the penalty, he/she must sign in the presence of the faculty member. The faculty member will then implement the accepted penalty and forward the settlement form to the Dean of Students. The form will be kept on records for five years

and may be used if the student is accused of another academic dishonesty offense or any other violation of the Student Code of Conduct. The information will only be used for internal purposes and will not be disclosed outside the university.

If the student refuses to sign, the faculty member may pursue the matter through the formal resolution process.

Formal Resolution

An allegation of academic dishonesty must be resolved through a formal process if the student disputes the charges or does not accept the penalty proposed by the faculty member. The formal process must also be followed if the incident is not the student's first violation.

In the formal process, an allegation of academic dishonesty will be treated as a violation of the Student Code of Conduct. The charges will be resolved through the Judicial Process administered by the Dean of Students. The Dean of Students and an academic administrator designated by the Provost will consult to determine if sufficient information is present to warrant further action.

If there is sufficient information to proceed with the complaint, the steps outlined in the "Student Code of Conduct and Judicial Process" section of the student handbook *Swataney* will be followed. Academic dishonesty cases must be heard by the university judicial hearing board; the judicial officer option is not available for these cases. Appeals of academic dishonesty decisions will be handled by the Vice President for Student Affairs and the Provost.

Penalties

The Student Code of Conduct contains a list of sanctions which may be imposed for violations. In addition to those in the Code of Conduct, the following two sanctions may be

imposed against students found to have committed acts of academic dishonesty:

- **Grade Reduction**
The grade for a particular unit of work or for the entire course may be reduced.
- **Imposition of a Failing (F) Grade.**
The student may receive an F for the course.

These two penalties may be imposed through the informal settlement process or the formal hearing process. More severe penalties, including suspension or expulsion, may only be imposed through the formal process. Additional stipulations may be attached to any sanction.

Plagiarism

Plagiarism is a form of academic dishonesty. Shippensburg University will not tolerate plagiarism, and the faculty will make all reasonable efforts to discourage it.

Plagiarism is your unacknowledged use of another writer's words or specific facts or propositions or materials in your own writing. When other writers' words or materials (even short phrases or specific terminology) are used, you should put these words, phrases or sentences inside quotation marks (or else indent and single-space more extended quotations), and you should then cite the source of the quotation either in the text of your writing or in footnotes. Failure to do so may be considered plagiarism. When the propositions of another writer are restated in your own words (paraphrased), you should also indicate the source of the paraphrased material in your own text or in footnotes. Comparable citation should be made for borrowings from media other than printed texts, such as lectures, interviews, broadcast information, or computer programs.

The more flagrant form of plagiarism is your submission of an entire paper or computer program or lab report (or a substantial portion of a longer work) written by someone else and presented as your own work. This can include material obtained from a friend, from a fraternity or sorority file, from duplicated student writings used for analysis in other writing courses, from commercial sources, or

from published materials. Another common form of plagiarism is the unacknowledged borrowing from other sources (either words or propositions) and the integration of such material in your own work.

Certain situations may cause conscientious students to fear plagiarizing when they are not really plagiarizing. These include:

Improper format for documentation

Improper documentation is not plagiarism but a technical academic problem. Different professors, different academic departments, and different academic disciplines have various ways of documenting borrowed materials. Each professor should make clear to you how he/she wants borrowed materials documented for given writing or programming assignments. You should make every effort to understand precisely what your professor expects regarding documentation. As long as you make a clear effort to document all borrowed materials, you are not plagiarizing.

Use of supplemental individualized instruction on an assignment

Various tutorial resources are available at the university, including a writing center and assistance from faculty who assist students during the process of composing a paper. When you seek these kinds of legitimate academic assistance, you are not plagiarizing. In fact, you are making an extraordinary attempt to improve your writing and academic performance. In such cases, you should inform your instructor of the fact you have sought assistance from a given source on an assignment. This acknowledgement should be stated on the cover sheet of your paper or program. The prohibition against plagiarism should in no way inhibit or discourage you from seeking legitimate supplemental instruction in developing an assignment.

Use of a proofreader

If you are unsure of your ability to produce finished drafts which are virtually error-free, you may use such resources as hired typists, more editorially proficient friends, tutors, or writing center personnel to insure your finished papers are relatively error-free. You should

indicate on the title page the fact your paper was typed and/or proofread by someone else. The prohibition against plagiarism should in no way inhibit or discourage you from using available reference and/or human editorial resources in seeking to produce an error-free final copy of a paper.

In summary, plagiarism is the unacknowledged borrowing of another writer's, speaker's or programmer's words and/or propositions. To avoid plagiarism, you should acknowledge assistance received in developing and/or proofreading a paper. If you need or desire such assistance, you should not be discouraged from seeking it because of the university policy on plagiarism.

Student Matters

This chapter concerns some of the non-academic areas of graduate student life at Shippensburg University, including fees, student services, and financial assistance.

Tuition and Fees

Fees and due dates are subject to change.

Summary of Costs

The following are per semester costs for a full-time graduate student who is a Pennsylvania resident (2005-06 costs).

Graduate Tuition	\$2,944.00
Technology Tuition Fee	\$62.50
Student Union Fee	\$102.00
Educational Services Fee	\$245.00
Health Services Fee	\$80.00
Total	\$3,433.50

Payment of Fees

Fees are payable in advance as indicated below. Payment by check, money order, or credit card is preferred. Unless otherwise indicated, all checks shall be made payable to Shippensburg University.

Do not send cash by mail.

Semester	Payments Due
First	Early August
Second	Mid-December

The above dates are subject to change.

Delinquent Accounts

If your account is not paid in full, you will not be permitted to enroll for classes, graduate, or receive a diploma or transcript. Accounts delinquent for 90 days are turned over to the Pennsylvania Attorney General for collection.

Pennsylvania Resident Tuition

A basic fee of \$2,944 will be charged to full-time graduate students who are Pennsylvania residents. A full-time student may take between 9 and 15 credit hours per semester (total graduate and undergraduate

courses). Students taking more than 15 credit hours must pay an additional per credit fee.

Part-time students (less than 9 credit hours) pay a fee of \$327 per graduate credit hour. Students taking undergraduate courses (not for graduate credit) pay a fee of \$204 per undergraduate credit hour.

Out-of-State Student Tuition

Full-time graduate students whose legal residence is not in the state of Pennsylvania pay a basic fee of \$4,711. A full-time student may take between 9 and 15 credit hours per semester (total graduate and undergraduate courses). Students taking more than 15 credit hours must pay an additional per credit fee.

Part-time students (less than 9 credit hours) pay a fee of \$523 per graduate credit hour. Students taking undergraduate courses (not for graduate credit) pay a fee of \$511 per undergraduate credit hour.

NOTE: The above fees are valid only through the summer of 2006.

Fees

Semester Fees

All fees are subject to change without notice.

Technology Tuition Fee

This fee is established by the Board of Governors of the State System of Higher Education. The purposes of the technology tuition fee are: (1) to acquire, install, and maintain up-to-date and emerging technologies for the purpose of enhancing student-learning outcomes; (2) to provide equitable access to technology resources; and (3) to ensure that State System graduates are competitive in the technologically sophisticated workplace.

The technology tuition fee is not a user fee, but is instead a fee that is paid by all students, proportional to their enrollment status (full-time/part-time) and to their residency status (in-state/out-of-state).

Currently, the technology tuition fee for full-time students is \$62.50 in-state and \$94 out-of-state. Part-time students are charged \$31

in-state and \$47 out-of-state. The summer technology tuition fee is \$31 per session in-state, \$47 per session out-of-state, not to exceed the full-time rates of \$62 and \$94 respectively for all summer sessions.

Student Union Fee

State law and policies of the Board of Governors of the Pennsylvania State System of Higher Education require the cost of constructing the original Ceddia Union Building and its addition be paid by students enrolled at the university. This fee is applicable to all full- and part-time students, both graduate and undergraduate, during both regular semesters and summer sessions, in accordance with the following schedule established by the University Council of Trustees:

Regular Semesters	
Over 8 credit hours	\$102
7 to 8 credit hours	\$76
1 to 6 credit hours	\$51
Summer Sessions	
All students	\$8 per credit hour

The Student Union Fee is refundable based on the schedule in the section *Refunds*.

Educational Services Fee

This fee provides instructional and library supplies and equipment. It is charged to all students in all semesters and sessions in accordance with the following schedule:

Regular Semesters	
Over 8 credit hours	\$245
Part-time	\$27 per credit hour
Summer Sessions	
All students	\$27 per credit hour

This fee is refundable according to the schedule in the section *Refunds*.

Health Services Fee

Full-time graduate students must pay a Health Services Fee of \$80 per semester. Part-time students (less than 9 credit hours) do not pay this fee.

During the summer sessions, all graduate students must pay a health services fee for each term they are registered. This fee is \$5 per credit hour.

Activities Fee

During the regular semester, the graduate activities ticket is optional. You may purchase a ticket for each semester from the Student Association fiscal office at a cost of \$7.50. You will be admitted to all events in Memorial Auditorium, Heiges Field House, and the athletic fields except for those special events which require an additional charge. When an additional charge is established for special events, you may, upon presentation of your activities ticket, purchase a ticket at the price established for all students.

The Activities Fee is required of all graduate students attending summer sessions. The fee covers the cost of supporting student organizations in athletics, lectures, entertainment, and publications. This fee is \$6 per credit hour.

Special Fees

All fees are subject to change without notice.

Application Fee

A fee of \$30 is charged when you first apply for graduate study at Shippensburg University. The application fee is not refundable and is not credited toward course fees.

If you do not begin your graduate study within one year of being admitted, you will need to pay an additional fee to apply again.

Late Registration Fee

If you submit your materials for payment after the officially announced deadlines, you will be subject to a late registration fee of \$25.

Graduation Fee

A fee of \$25 must be paid at the time you apply for graduation. This fee covers the cost of processing your application and preparing your diploma.

Miller Analogies Test Fee

A fee of \$45 is required of all persons who take the Miller Analogies Test.

Parking Fee

All vehicles operated by faculty, staff, and students (graduate or undergraduate) are required to be registered with the University Police and to display a current parking decal on the right rear bumper. Student parking decals (through 2006-2007 academic year):

- \$50 for the academic year
- \$15 summer only (through Summer 2006)
- \$5 for additional vehicles

Bad Check Fee

A fee of \$15 may be charged for each check that is not honored by the payee's bank.

Room and Board

Campus housing is not available for graduate students during the regular semester. A meal plan is available for commuting students. Housing is available during the summer terms.

Meal Plans

During the regular semester, meal plans are available which provide a certain number of meals per week in the dining halls. The 2005-2006 cost for these plans are: 19 meals a week, \$1,210; 15 meals, \$1,078; 10 meals, \$848; 5 meals, \$614; 175 Block Plan, \$935; and 75 Block Plan, \$585. Meal plans are also available during the summer sessions. Meal plan rates are subject to change. For more information contact the Student Affairs Office at 477-1308.

Summer Sessions Room and Board

Information about graduate student housing for the summer sessions can be obtained by contacting the Dean of Students Office at 477-1164. The following rates were in effect for the 2006 summer sessions:

Double occupancy with 15 meal plan — \$483 for 3 weeks, \$805 for 5 weeks. Double occupancy with 19 meal plan — \$507 for 3 weeks; \$845 for 5 weeks.

Double occupancy with 10 meal plan — \$441 for 3 weeks; \$735 for 5 weeks.

Refunds

A graduate student is considered to be in class attendance up to the date on which a written notice of intent to withdraw is received in the Registrar's Office. This date becomes the official date of withdrawal when calculating adjustments of tuition and fees and the return of federal financial aid.

During the academic year the following schedule determines the amount of refund or credit to be granted in the event of withdrawal:

0-1 Class Days	100%
1st Week	90%
2nd Week	80%
3rd Week	70%
4th Week	60%
5th Week	50%
Over 5 weeks	0%

During the summer sessions the following schedule determines the amount of refund or credit to be granted in the event of withdrawal:

	3 weeks	5 or 6 weeks
0-1 Class Days	100%	100%
1st Week	90%	90%
2nd Week	25%	50%
3rd Week	0	25%
4th Week	0	0

The refund schedules assume the student account is paid in full and the percentages are not being applied to a partial payment of tuition. The application fee is not refundable.

If a student is a recipient of federal Title IV financial aid, refunds to those programs are required by federal law to be the first priority and must be returned in the following order:

1. Federal unsubsidized Stafford loan
2. Federal subsidized Stafford loan
3. Federal Perkins loan
4. Federal Parent PLUS loan
5. Federal Pell Grant
6. Federal SEOG

In some cases a student may owe a balance to the university after Title IV aid is returned.

Information concerning the detailed application of the refund policy can be obtained by contacting the Student Accounts Office at 477-1211.

Refund policies are subject to change by the Pennsylvania State System of Higher Education.

Financial Assistance

Shippensburg University provides financial assistance to graduate students through graduate assistantships, graduate residence director appointments, and student loans.

Graduate Assistantships

Graduate assistant appointments can provide you with the opportunity to participate in professionally-related activities with faculty and administrators. These assignments can extend your learning experience beyond the classroom and enhance your professional development.

Graduate assistant appointments are awarded on a competitive basis. They provide a tuition waiver as well as compensation for work performed.

Eligibility

To be eligible to receive a graduate assistant appointment, you must be admitted into a graduate degree program. Non-degree students, or those working towards certification without a degree, are not eligible.

Graduate assistants must maintain at least a 3.0 cumulative QPA and must not have earned more than two grades of C or less in any course taken while a graduate student.

You may not hold graduate assistant positions for more than two years, defined for this purpose as four regular semesters and one summer session. Students in degree programs which require more than 33 credits may hold positions for more than two years.

Students may not be appointed as graduate assistants while working towards their second Shippensburg University master's degree.

Exceptions to these eligibility requirements may only be made upon written recommendation of the student's academic department, endorsed by the student's college dean, and approved by the Dean of Graduate Studies.

Application Procedures

Apply on-line at <http://www.ship.edu> and navigate via "Graduate Students" before March 1 for the summer and fall terms.

Applications will be accepted after the deadline, and appointments may be made through the end of the sixth week of the semester as long as there is a position vacant (see also *Late Appointments*).

Appointment Process

Available graduate assistantships are listed online. We recommend you contact appropriate departments directly to request interviews. You should also work with your academic department to identify potential positions.

Departments that hire graduate assistants will review the applications that have been submitted and consult with academic departments to identify candidates. They may contact you and conduct an interview before making a final decision. If you are selected, the department will make a verbal offer and ask for your acceptance before making the formal recommendation for appointment.

After the appointment is submitted online by the department, the Office of the Graduate Dean will verify your eligibility and then send an official letter of appointment. You will then be required to sign a memorandum of understanding and return it to the Office of the Graduate Dean. If you have not worked for the university before, you will need to fill out appropriate payroll forms.

Tuition Waiver

When an appointment is formally made, the Student Accounts Office will be notified and instructed to process a tuition waiver or a refund if you have already paid tuition. Graduate assistants are responsible for all fees, including late registration, health services, educational services, student union, and graduation.

Academic Load

During the academic year, all full-time graduate assistants must register for and complete nine credit hours of graduate course

work each semester. With prior approval of supervisors, half-time graduate assistantships are available. Half-time GAs must register for and complete six graduate credits. During the summer sessions, all graduate assistants must register for and complete a total of six credit hours of graduate course work during any of the summer sessions.

Work and Compensation

Graduate assistants are compensated for the work they do on an hourly basis. The hourly scale is determined by the Vice President for Administration and Finance.

During each semester, full-time graduate assistants are required to work 250 hours (approximately 15 hours per week). Half-time assistants work 125 hours. During the summer, graduate assistants are required to work 150 hours. Some positions may be classified as technology positions. These assistants may be eligible to receive an increased rate of pay.

Graduate assistants must work at least 90 percent of the required hours in order to qualify for the tuition waiver. Assistants working less than this amount will be required to pay for a portion of tuition on the following schedule:

Hours worked	Repayment required
80 - 89 percent	10 percent of tuition
70 - 79 percent	20 percent of tuition
60 - 69 percent	30 percent of tuition
50 - 59 percent	40 percent of tuition
50 or less percent	50 percent of tuition

Employee Benefits

With the exception of the tuition waiver and compensation for work performed (including social security and workmen's compensation payments), graduate assistants do NOT receive any of the benefits provided to regular university employees. Graduate assistants do not receive health benefits, sick leave, or any paid holidays or vacations. They are not eligible for STAFF parking stickers for their vehicles.

Late Appointments

Graduate assistants may be appointed through the end of the sixth week of a

semester. Up to the end of the first week of classes, you will receive the full tuition waiver as long as you work the required number of hours.

After the first week of classes, the tuition waiver will be prorated based on the following schedule: through the end of the second week, 90 percent; third week, 80 percent; fourth week, 70 percent; fifth week, 60 percent; sixth week, 50 percent.

Students accepting a late appointment may work the full number of hours. The number of hours required (see *Work and Compensation* section above), however, will be based on the percentage of tuition received times the full number of hours. For example, a student who accepts a position during the third week of the semester will be required to work 200 hours, or 80 percent times 250 hours.

Students accepting an assistantship after the drop/add period must be registered for the appropriate number of credit hours (see *Academic Load* section above).

Changing Appointment

If you would like to resign from one assistant position in order to accept a different one, you must have written permission from the department you originally accepted. If the department chooses not to give this permission, you may not accept the other appointment. You may not circumvent this requirement by resigning from one position and then accepting another appointment.

To give permission to change positions, the department which made the original appointment should send written authorization to the Office of the Graduate Dean.

Resignation or Dismissal

Graduate assistants may resign from their positions during the course of a semester. Any hours worked prior to resignation must be recorded on the student payroll and paid to the student.

Students who resign will have their tuition waiver prorated based on the number of hours actually worked. For example, if a graduate assistant works 50 hours and then resigns, only 20 percent (50/250) of the tuition will be

waived. The student will then be billed for the remaining 80 percent.

Students who withdraw from classes and no longer meet the academic load requirements will be dismissed from their assistantships. Compensation and tuition waiver policies are the same as those for a resignation.

At the discretion of the department chair or other authorized individual, a graduate assistant may be dismissed from his or her position. The chair must notify the student and the Dean of Graduate Studies in writing of the decision and the reasons for it. Compensation and tuition waiver policies are the same as those for a resignation.

Residence Directors

Residence Directors supervise the eight residence halls or apartments for students living in campus housing. General responsibilities include supervising undergraduate staff members, responding to student needs and issues, serving as an emergency on-call person, working with camps and conferences, advising student groups, assisting in hall maintenance processes, implementing programs and services, and participating in the adjudication of conduct code violations. Residence Directors also perform a variety of tasks within the Office of the Dean of Students.

Residence Directors must be enrolled in a graduate program during their period of employment. Hiring preference is given to individuals enrolled in the counseling program, with special consideration given to those with a student personnel emphasis. Previous experience working within a residence hall or some other related aspect of student personnel work is preferred. Strong interpersonal skills, plus an interest in and an understanding of working with undergraduate students are required.

The Residence Director position is a 12-month appointment. In addition to a salary (contact the Office of the Dean of Students for specifics), Residence Directors receive a free apartment and meal plan. Additionally, Residence Directors receive a tuition waiver for six credits per semester and three credits

per summer. In order to balance academic and professional success, Residence Directors are not authorized to exceed the aforementioned credit limits, thus limiting them to a maximum of 15 graduate credits per year.

Applications and additional information may be obtained by contacting the Office of the Dean of Students.

Loans

Federal Stafford Loans are available to matriculated graduate students who are taking at least 6 credits per semester. In order to qualify, a student must complete the Free Application for Federal Student Aid (FAFSA) and a Federal Stafford Loan application (available in the Financial Aid office).

There are two types of Stafford Loans: subsidized and unsubsidized. The subsidized loan is interest-free while the student is in school. The student is charged interest on the unsubsidized loan while in school, and may opt to pay it as it accrues, or allow it to accrue and capitalize. Eligibility for the interest subsidy and the amount of the loan will depend upon the student's financial need (as determined by the results of the FAFSA) and other resources available to the student.

Graduate students are billed for tuition and fees at the time of registration. If the student has applied for a Federal Stafford Loan to cover those charges, payment may be deferred until the loan funds arrive. The student should indicate on the tuition bill that a loan is pending, and return it to the Revenue Accounting Office with the registration form.

Students interested in additional information may contact the Office of Financial Aid.

Academic Progress Requirements for Graduate Student Federal Aid

Federal regulations require graduate students make satisfactory academic progress towards the completion of a degree in order to maintain their eligibility for the following programs: Federal Stafford Loan, Federal Work Study, and Federal Perkins Loan.

At Shippensburg University, in order to make satisfactory academic progress for federal financial aid purposes, a full-time graduate student must complete 18 new credits per year and maintain a 3.0 cumulative QPA. A part-time student must meet identical minimum QPA requirements and must complete 80 percent of all attempted credits each year.

Students will be notified at the close of each spring semester if financial aid eligibility is terminated due to unsatisfactory academic progress. The student may resolve the situation by taking summer courses (without federal aid), or if extenuating circumstances exist, file an appeal to have eligibility for federal funding reinstated.

Veteran's Benefits

The university is approved for training veterans under the Montgomery G.I. Bill as administered by the Veterans Administration. For further information, contact the Veterans Affairs Office (Financial Aid Office) in Old Main 101.

Student Services

Office of the Graduate Dean

The Office of the Graduate Dean, located in Old Main 310, provides a number of services to graduate students including coordination of graduate assistantships. Office hours are 8 AM to 4:30 PM Monday through Friday during the academic year. To contact the office call (717) 477-1148.

Registrar's Office/Transcripts

You may request copies of your Shippensburg University transcripts in three ways. Only three transcripts may be ordered per request. A limit of three transcripts will be mailed to the same address. The Registrar's Office reserves the right to impose a handling fee for large-volume requests.

1. Mail a letter or transcript request form to the Registrar's Office requesting your transcript be prepared for pick-up or sent to a specified address. The transcript request form

is available at www.ship.edu/admin/registrar/forms.html. Include the following information:

- full name and social security number — include all previous last names, if any
- dates of attendance
- graduation date and degree received
- specify graduate, undergraduate, and/or non-degree courses taken
- number of transcripts requested
- complete mailing address transcript is to be sent (A transcript sent to yourself may be considered unofficial. Faxed transcripts are also considered unofficial.)
- requestor's daytime telephone number and mailing address
- your signature is required on the request (e-mail requests are unacceptable for this reason)
- mail request to:

Registrar's Office
Shippensburg University
1871 Old Main Drive
Shippensburg, PA 17257

1. Fax a written request to (717) 477-1388 that includes all the information specified above. The request must be signed by the student.
2. Visit the Registrar's Office and complete a transcript request form.

To pick up a transcript, you must show valid photo identification.

Generally allow one week for processing transcript requests. Due to heavy volume of requests at the beginning and end of semesters, the processing time may be longer.

An unofficial transcript is sent to the student automatically following graduation. This transcript is sent after grades are verified and degrees posted. Unofficial transcripts are also sent after individual students have had a grade change made to their academic records.

Questions regarding this process should be directed to the Office of the Registrar, located in Old Main 111. To contact the office call (717) 477-1381.

Electronic Communication Policy

At Shippensburg University electronic mail (e-mail) offers efficient, effective, and timely

communication between members of the university community. Thus e-mail is an official means of communication and the primary method for university faculty, administrators, and staff to contact all students. Students are expected to use the campus e-mail service and check their e-mail accounts on a regular basis because correspondence about administrative requirements, academic issues, public safety and health, judicial affairs, emergencies, and general matters will be sent in this manner. Much of this correspondence will be time-sensitive.

Students will be given a campus e-mail account at no cost. The account is active throughout a student's period of enrollment, including all vacation periods. Students wishing to utilize only off campus e-mail services are expected to forward their campus e-mail to that Internet provider or server. Otherwise, they are still expected to check their campus e-mail account on a regular basis. Failure to check one's campus e-mail account in a timely manner shall not be an excuse for missing deadlines or failing to meet communicated expectations.

Therefore, all students must do the following:

- Regularly check their accounts and read any e-mail in a timely fashion. It is preferable students read their e-mail on a daily basis but they are expected to do so at least four times per week, including all vacation and summer periods.
- Maintain their ship.edu inbox and home directory on the Student Information System located at info.ship.edu. In particular, all students are expected to ensure use of the university's computing systems and networks do not exceed current published limits, thereby interfering with one's ability to receive e-mail. All students are also expected to comply with all published policies governing computing and information networking.
- If people choose to use software to sort incoming e-mail into folders or to filter out unsolicited advertising e-mail (SPAM), they are responsible for making

sure that the filter rules do not accidentally delete official correspondence from the university.

- If students choose to forward e-mail from ship.edu to another e-mail server, they are responsible for making sure that the e-mail is forwarded and working properly. They must also ensure that their e-mail account has adequate space available to accept new messages.

Counseling Services

The University Counseling Center (UCC) offers free, confidential counseling and psychological services for a wide range of issues, from personal growth and development to mental health concerns. Services provided include individual, couples, and group counseling, crisis intervention, and psychiatric services for undergraduate and graduate students; as well as prevention and consultation services for the entire university community.

Some of students' more common concerns include the following: depression; anxiety; self-critical feelings; academic concerns including procrastination and time management; sleeping problems; uncertainty about future/life after college; finances; relationships with family, friends, roommates, or romantic partners; problems with body image, eating, or weight; sexual concerns; and alcohol/other drug abuse.

The UCC is accredited by the International Association of Counseling Services, Inc. UCC records are confidential, and do not become a part of students' academic records. Only with a client's written permission will information be released to anyone outside of the UCC, except as required by law. The UCC is located on the first floor of Wright Hall and is open Monday through Friday, 8:30 AM to 5 PM when classes are in session. Call (717) 477-1481 or visit <http://www.ship.edu/~counctr/> for more information.

Career Development Center

The Career Development Center (CDC), located on the second floor of the Ceddia Union Building, provides students and alumni with valuable information and assistance on their job search. CDC provides resources in exploring career options, organizing job search programs such as preparing a résumé, cover letter, and interview skills.

In addition, the CDC provides students with career and employer information through their bi-weekly newsletter *Ship Career Connection*, which lists on-campus interviews with employers and graduate schools, internships, and career events. CDC maintains reference files that are disseminated to prospective employers or graduate schools upon request and a resource library on the third floor of the Ceddia Union Building.

Keeping with the CDC's commitment to meet students' schedules and needs, the CDC conducts daily walk-in hours, workshops on job search and interviews, mock interviews, outreach programs for classes and organizations, appointments, and holds evening hours. Give the CDC a call at (717) 477-1484 or stop by the office for more information. Visit our website at <http://www.ship.edu/career>.

Women's Center

The Women's Center (located in Horton Hall) provides a wide variety of opportunities and support services for students. The center sponsors programs, support groups, activities, and speakers, in addition to providing a peer referral service, meeting room space, a library, and information about campus and community events. An attractive lounge area provides a relaxing place for students to gather for conversation, study, or just to get away from it all. Visit its web page at <http://www.ship.edu/~wmscentr/>

Multicultural Student Center

The Office of Multicultural Student Affairs (MSA) is a student-centered office located in the Multicultural Student Center in Gilbert Hall. The office assists groups such as the

African American Organization, Multicultural Affairs A.P.B., Latino Student Organization, Cultural Difference Committee, Asian American Organization, and others with program development and implementation. It also serves as a focal point and a resource for students, faculty, and others. MSA also serves as a liaison with areas such as financial aid, residence life, career development, as well as the community. The office strives to expose students to individuals and experiences that will enhance their awareness of self and culture. The MSA works to improve the quality of life for all students enrolled at the university. The MSA slogan is, "We are in the business of bridge building, not bridges of steel between riverbanks, but bridges of understanding between people."

Child Care

The university offers child care through the Learning and Day Care Center on the Shippensburg University campus. Located in Grace B. Luhrs University Elementary School at the edge of campus, the facilities are designed for children. The facility offers structured activities designed and led by state certified teachers as well as plenty of free play supervised by caring, fully-trained assistant teachers and aides. Programs are tailored to four age ranges and children are encouraged to participate at their own level without pressure to conform to some predetermined pattern. Age ranges are: toddlers (18-36 months), preschoolers, kindergarten, and grade school children. Students enrolled at Shippensburg University are eligible to make use of the child care facility. For information call (717) 477-1792.

University Store

The University Store is operated by the Student Association and is located on the ground floor of the Ceddia Union Building.

The store provides textbooks, trade books, school supplies, gift items, imprinted clothing, greeting cards, and special services such as faxing, check cashing, book buy back, photo developing, and the sale of computer software at a discounted price. The store is open

Monday through Thursday, 7:45 AM to 7 PM; Friday, 7:45 AM to 4:30 PM; and 10 AM to 3 PM on Saturday during the school year. For additional information, call (717) 477-1600 or visit our website at <http://bookstore.ship.edu/>.

Instructional Design and Development Services	477-18
Media Services	477-16
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Library and Multi-Media Services

The primary goal of this unit is to support the educational mission of the university to prepare students with the fundamental skills of lifelong learning — information gathering, critical evaluation, and creation of media presentations of research findings. In fulfilling this goal the unit provides a variety of services including:

- Assistance in locating books and articles in the Lehman Library, the Luhrs Library Media Center, in on-line databases, and from other libraries
- Document delivery of articles housed in the Lehman Library and acquired through interlibrary loan services
- Help in recognizing useful internet resources
- Guidance in citing resources and avoiding plagiarism
- Personal appointments for assistance in beginning a research project
- Ask Us (Virtual Librarian Service) for on-line reference and research support
- Basic support with computer literacy and software applications used at the university including:
 - BlackBoard Learning System
 - E-mail
 - Passwords
- Technology support in presentation software including video, HTML, and image editing
- Equipment check-out for digital cameras, digital camcorders, LCD projectors, laptops, etc.

For more information or assistance with an information or media-related need call:

Ezra Lehman Memorial Library

Luhrs Library Media Center

Computing and Network Services

The Computing Technologies Center (CTC) provides computing and network services for instruction, research, and administration. The center is located in the Mathematics and Computing Technologies Center. The major academic systems are the SUN Academic Server, the Microsoft-based network server, and the Unisys Clearpath Administrative Server. All systems are accessible through the campus-wide gigabit Ethernet network.

Every student has e-mail, file storage, and World Wide Web (www) homepage accounts on the Microsoft servers. The Microsoft servers provide central printing, files, and software distribution services. Students are encouraged to access their academic and scheduling records at the <http://info.ship.edu/>.

The university maintains four general purpose microcomputer laboratories, 16 discipline-specific labs, 41 general purpose computer classrooms, and 23 discipline-specific computer classrooms. The general purpose labs have word processing, spreadsheet, SPSS, and presentation software available for student use. Two of the labs are open 24 hours 7 days per week. All users must have a valid university ID card in order to use the equipment and software.

Graduate Student Association Board

The Graduate Student Association Board was organized to promote harmonious relationships among graduate students, faculty, and administration; to provide a means of expressing to the university as a whole the needs of graduate students; and to insure the rights, privileges and responsibilities of graduate students.

Membership is automatic during the semester or session in which a graduate student is enrolled. Elections for officers are held in April with officers serving from June through

May. For more information, contact the Office of Graduate Admissions.

Other Information

Commencement

Two commencements are held each year, one in December and one in May.

Students completing degree requirements during the summer or the fall may participate in the December commencement. Students completing degree requirements in the spring may participate in the May commencement. Students planning to graduate in the summer may also attend May commencement.

Graduate degree candidates must submit their application for graduation and pay the graduation fee to the Registrar's Office by the end of the second week of their final term. Applications received after the deadline date will be held and processed for the next commencement.

Fee Waiver for Senior Citizens

Tuition charges may be waived for senior citizens enrolled in any graduate program providing space is available within the desired courses. Applications for this waiver should be initiated through the Registrar's Office prior to registration for the courses to which it will apply. Application for and approval of the waiver must occur prior to registration for the courses to which it will apply. Requests for retroactive waivers will not be considered. All other fees described in this catalog are due and payable at time of registration.

A senior citizen is defined as a retired United States citizen residing in the Commonwealth of Pennsylvania who is 60 or more years of age. Documentation that the requesting student meets the above eligibility criteria will be required.

Pennsylvania Residency

Students applying for graduate study at Shippensburg University will be classified as resident or nonresident for fee purposes by the Office of Graduate Admissions. This

classification is based on information furnished by the applicant and all other relevant information. The Office of Graduate Admissions may require written documents, affidavits, verifications, or other evidence necessary to establish the domicile of a student.

Domicile is defined by the regulations of the State System of Higher Education as the place where one intends to reside either permanently or indefinitely and does, in fact, so reside. It is the student's responsibility to present clear and convincing evidence to establish residency for fee purposes.

Determination of Domicile

Continuous residence in Pennsylvania for a period of 12 months prior to registration creates a presumption of domicile. You are presumed not to be a domiciliary if you have resided for a shorter period, but you may rebut this presumption by clear and convincing evidence.

Students who are not United States citizens, and have nonimmigrant visas or lack a visa, are presumed not to be domiciled in Pennsylvania, but they may rebut this presumption by clear and convincing evidence.

A U.S. government employee or a member of the armed forces who was domiciled in Pennsylvania immediately preceding entry into government service and who has continuously maintained Pennsylvania as his or her declared legal residence, shall be presumed to have a Pennsylvania domicile. Nonresidents stationed in Pennsylvania for military service shall be deemed Pennsylvania domiciliaries.

Evidence

The following factors may be considered as evidence of domiciliary intention: lease or purchase of a permanent, independent residence within Pennsylvania; payment of appropriate state and local taxes; agreement for permanent, full-time employment within the state; registration of a motor vehicle in Pennsylvania; registration to vote in Pennsylvania; possession of a valid Pennsylvania driver's license; and a sworn statement declaring your intention to make

Pennsylvania your residence either permanently or for an indefinite period of time.

instructor to make arrangements for making up any work missed.

Each case is decided on the basis of all the facts submitted, with qualitative rather than quantitative emphasis. No given number of factors is required for domicile, since the determination in each case is one of the subjective intention of the student to reside permanently or indefinitely in Pennsylvania.

Procedures for Reclassification

You may challenge the university's determination of your domicile by submitting a written petition to the Vice President for Student Affairs within 30 days after the issuance of the determination. This petition should contain your reasons in support of your claim of Pennsylvania domicile and any supporting documentation you may wish to submit. You must also submit a Residency Classification Data Collection form with your petition.

If your petition is denied, you will be notified in writing. You may appeal this decision to the Office of the Chancellor of the State System of Higher Education. This written appeal must reach the Office of the Chancellor within 30 days of the date the university's decision was mailed.

Change of Domicile

If you change your domicile from Pennsylvania to another state, you must promptly notify the Registrar's Office. You may also be reclassified as a nonresident if the university believes you are no longer a Pennsylvania domiciliary.

Weather Conditions

Information pertaining to cancellation of graduate classes due to bad weather will be available by calling HOTLINE at (717) 477-1200. When classes are canceled, radio stations in the general area will be notified. When classes are not canceled students should use their own good judgment as to whether they can make it to classes without taking unnecessary risks regarding their own safety. Accordingly, students who are unable to attend classes are responsible for contacting the

University Curricula

Graduate curricula of the university lead to the master's degree or to post-master's certification in educational administration.

Graduate Degrees

Shippensburg University provides graduate curricula leading to five degrees:

- Master of Arts (M.A.)*
- Master of Business Administration (M.B.A.)*
- Master of Science (M.S.)*
- Master of Public Administration (M.P.A.)*
- Master of Education (M.Ed)*
- Master of Social Work (M.S.W.)*

These degree programs are offered by the College of Arts and Sciences, the John L. Grove College of Business, and the College of Education and Human Services. The M.S.W. is offered jointly with Millersville University.

Departments and Degree Programs

The following table lists the departments in each college and the graduate degree programs available for each department. Concentrations for each program are italicized.

College of Arts and Sciences

- Biology Department
 - Biology M.S.
- Computer Science Department
 - Computer Science M.S.
 - Information Systems Studies M.S.
- Communication/Journalism Department
 - Communication Studies M.S.
- Geography/Earth Science Department
 - Geoenvironmental Studies M.S.
- History and Philosophy Department
 - Applied History M.A.
- Political Science Department
 - Public Administration M.P.A.
- Psychology Department
 - Psychology M.S.
- Sociology and Anthropology Department
 - Organizational Development and Leadership M.S.
 - Business*
 - Public Organizations*
 - Individual and Organizational Development*

- Environmental Management Education*
- Communication*

John L. Grove College of Business
Business Administration M.B.A.

College of Education and Human Services

- Counseling and College Student Personnel Department
 - Counseling M.S.
 - College Counseling*
 - Community Counseling*
 - College Student Personnel Work*
 - Mental Health Counseling*
 - Counseling M.Ed.
 - Elementary School Counselor*
 - Secondary School Counselor*
- Criminal Justice Department
 - Administration of Justice M.S.
 - Juvenile Justice*
- Educational Leadership and Policy Department
 - School Administration M.Ed.
- Social Work and Gerontology Department
 - Social Work M.S.W.
- Teacher Education Department
 - Special Education M.Ed.
 - Behavioral Disorders*
 - Comprehensive Special Education*
 - Learning Disabilities*
 - Mentally Retarded*
 - Reading M.Ed.
 - Curriculum and Instruction M.Ed.
 - Biology*
 - Early Childhood Education*
 - Elementary Education*
 - English*
 - Geography/Earth Science*
 - History*
 - Mathematics*
 - Middle-level Education*

Master of Education Degree

Teacher education programs at Shippensburg University are designed to prepare competent professionals for classroom teaching and for leadership positions in a variety of educational settings and institutions.

The teacher as a “reflective co-learner” is the focus of the university’s education programs.

Shippensburg University’s teacher education programs are accredited by the National Council for Accreditation of Teacher Education (NCATE) and by the Pennsylvania Department of Education (PDE).

The following applies to all programs leading to the Master of Education degree.

General Guidelines

1. Each candidate’s program leading to the Master of Education degree must include at least nine semester hour credits of graduate work in professional education. A comprehensive course list follows this section.
2. Each candidate’s program for the Master of Education degree must include at least nine semester hour credits of graduate work in the content area of the candidate’s teaching field.
3. The department of the candidate’s teaching field may not specify more than 18 semester hour credits of required courses in the Master of Education degree program. Of these 18 credits that may be specified, not more than 15 credits may be required in professional studies. The department, however, may require up to 18 credits in the content field.
4. Each candidate for the Master of Education degree must be able to include at least three credits of free electives in the program.
5. Each candidate for the Master of Education degree must complete the departmental course in Elements of Research.
6. Completion of the Master of Education degree does not lead to Instructional I teacher certification. Further information may be found in the section Teacher Certification.

Professional Education Courses

The following courses meet the professional education requirement for the Master of Education degree. Other appropriate courses may be elected with advisement.

- ECH460 Seminar in Child Development and Early Childhood Education
- ECH461 Individualizing in Early Childhood: Assessing and Planning for Children’s Special Needs
- ECH510 Including Children with Special Needs in Early Childhood Education

- ECH520 Social and Emotional Development in Early Childhood Education
- ECH530 Cognitive and Language Development in Early Childhood Education
- ECH540 Families and Early Childhood Education
- ECH563 Administration and Supervision of Early Childhood Program
- ECH577 Curriculum in Early Childhood Education
- ELP500 General School Administration
- ELP505 Computers and the School Administrator
- ELP508 Graduate Seminar in Instructional Strategies
- ELP512 The Curriculum in the Modern Secondary School
- ELP530 The Instructional Leader in the Middle School
- ELP569 Seminar: Diversity in Education
- ELP580 Statistical Methods in Education
- ELP591 School Law
- ELP592 General School Supervision
- ELP611 The Legal Aspects of Public School Administration
- ELP614 Business and Finance in Public Education
- ELP615 School and Community Relations
- ELP618 Curriculum Theory and Development
- EDU420 Microcomputers in the Classroom
- EEC411 Introduction to Exceptionality
- EEC550 Foundations of Learning Disabilities
- MAT551 Technology in the Teaching and Learning of Mathematics
- PSY512 Theories of Learning
- PSY527 Studies in the Psychology of Adolescence
- PSY530 Studies in the Psychology of the Exceptional Child
- RDG422 Studies in Children’s Literature
- RDG528 Foundations of Literacy Development
- RDG529 Reading and Reasoning Beyond the Primary Grades
- RDG532 Diagnosis and Assessment in Reading
- TCH445 Strategies in Effective Classroom Management
- TCH475 Inclusive Education: A Practical Approach for Educators
- TCH501 Effective Teaching: Theory and Practice
- TCH502 Strategies for Critical Thinking and Problem Solving
- TCH511 Elementary School Curriculum
- TCH570 Perceptual-Motor Development and Movement Experience for Children
- TCH575 Advanced Child Development

Teacher Certification

Certification for educators in Pennsylvania is determined by State Board of Education Regulations, Chapter 49, Certification of Professional Personnel. Revised regulations which became effective June 1, 1987, apply to all candidates who receive an Instructional I certificate after that date. By Department of Education policy, certificates are renewed or made permanent subject to the terms and conditions of the regulations in effect at the time the certificate was initially issued.

Instructional Certificates

Instructional I provisional certificates (Chapter 49.82) are issued to applicants who possess a baccalaureate degree, successfully complete a department-approved teacher certification program, successfully pass department-prescribed tests, and Pennsylvania Department of Education test requirements (Praxis), and receive recommendation from a college or university.

Instructional II permanent certificates (Chapter 49.83) are issued to applicants who complete a department-approved induction program, complete three to six years of satisfactory teaching on an Instructional I certificate in approved public or non-public schools, and complete 24 semester credit hours of collegiate study or in-service programs approved by the department.

More detailed information concerning Instructional, Educational Specialist, Supervisory, and Administrative Certificates as well as the Superintendent's Letter of Eligibility is available from the Bureau of Teacher Certification, Department of Education, 333 Market Street, Box 911, Harrisburg, Pennsylvania.

Students who can qualify for admission to graduate classes are encouraged to take graduate work to earn the credits required for permanent certification. These credits may also count toward meeting the requirements of the Master of Education degree.

The graduate program also provides opportunities for persons who have a bachelor's degree and a teaching certificate to extend their certification to other areas. The

curricula are not designed primarily for this purpose but do provide some courses which may be applied toward certification in specific areas.

Elementary and Secondary School Principals

The Pennsylvania Department of Education has granted approval to Shippensburg University to offer a graduate program leading to the Master of Education degree in Educational Administration and a post-master's degree program leading to the certification of elementary and secondary school principals. Detailed information concerning this program can be found under the Educational Leadership and Policy Department.

Supervisory I Certificate

Shippensburg University offers post-master's degree programs in the following fields leading to the Supervisory I Certificate issued by the Pennsylvania Department of Education:

- Communication/English
- Early Childhood Education
- Elementary Education
- Environmental Education
- Foreign Languages
- Mathematics
- Pupil Personnel Services
- Reading
- Science
- School Guidance Services
- Social Studies
- Special Education

Superintendent's Letter of Eligibility

Shippensburg University offers a post-master's degree program leading to the Superintendent's Letter of Eligibility. More detailed information on this Department of Education approved program can be found under the Educational Leadership and Policy Department.

Responsibility

All programs in teacher education are the direct responsibility of the Dean of the College of Education and Human Services, who is designated as the official university certification officer. Policies and guidelines for teacher education programs are developed by an all-university Teacher Education Council.

College of Arts and Sciences

James H. Mike, Ph.D., Dean, College of Arts & Sciences (717-477-1151)

Biology Department

Gregory S. Paulson, Ph.D., *Chair* (477-1401)

Marcie L. Baer-Lehman, Ph.D.

Sherri E. Bergsten, Ph.D.

Pablo Delis, Ph.D.

Lucinda H. Elliott, Ph.D.

Todd M. Hurd, Ph.D.

Larry H. Klotz, Ph.D.

Theo S. Light, Ph.D.

David R. Long, Ph.D.

Timothy J. Maret, Ph.D.

Michael R. Marshall, Ph.D.

Michael J. McNichols, Ph.D.

Earl L. Nollenberger, Ed.D.

Julie A. Olszewski, Ph.D.

William J. Patrie, Ph.D.

Richard L. Stewart, Ph.D.

Biology (M.S.)

The Master of Science degree program in biology is designed to provide a strong foundation in the biological sciences within the discipline.

All applicants for admission must have completed at least 33 semester hour credits of undergraduate biology or biology-related courses (e.g. forestry, horticulture, environmental studies), and have taken at least three chemistry courses with labs, including both inorganic and organic chemistry or biochemistry. In addition, it is recommended applicants have completed a course in evolution, mathematics through calculus, and one year of physics.

After admission to the graduate program in biology, the student will meet with his/her graduate advisor to complete a proposed course of study form.

Each candidate for a degree must complete a minimum of 31 semester hour credits. All candidates must complete BIO593 Biometry and BIO515 How to Research, Write, and Publish a Scientific Paper.

No more than 12 semester hours of 400-level courses may be counted toward the 31

semester hours of credit required for the master's degree.

At least 21 credits must be earned in biology courses (including courses offered by the Marine Science Consortium at Wallops Island). The remainder may be selected, with advisement, from courses in chemistry, physics, mathematics, computer science, or geography/earth science. Candidates simultaneously working towards secondary certification may count EDU440 (Teaching of Science in Secondary Schools) and EDU441 (Curriculum and Evaluation in the Secondary Science Classroom) towards these remaining credits.

Specific Requirements

Master of Science in Biology (non-thesis): In addition to completing BIO593 and BIO515, candidates must complete 27 semester hour credits of electives. Candidates may elect up to six semester hour credits as graduate research.

Master of Science in Biology (thesis): In addition to completing BIO593 and BIO515, candidates must complete 27 semester hour credits of electives. Candidates may elect up to three semester hour credits as graduate research. Thesis track candidates must also complete six semester hour credits of Thesis I and Thesis II (BIO612 and BIO613).

Other Requirements

1. All candidates must complete 31 semester hour credits with a 3.0 average in a program of study and research approved by the student's special committee.
2. The thesis must be written in manuscript style format with any material not appropriate for a scientific manuscript (i.e., voluminous tables) included as appendices. The specific style will depend on the requirements of the individual journal to which the manuscript will be submitted.
3. An oral thesis defense, advertised and open to the university community, is required.
4. A formal seminar based on the thesis research must be presented to the biology department by thesis candidates.
5. One copy of the thesis will be housed in the biology department office.

Field of Specialization

A maximum of 12 credit hours of 400-level courses may be counted toward the master's degree. A plus sign (+) represents a required course in the appropriate track or degree.

- BIO408 Principles of Virology
- BIO409 Immunology
- BIO417 Herpetology
- BIO418 Molecular Biology
- BIO423 Plant Pathology
- BIO430 Principles of Evolution
- BIO442 Hydrobiology
- BIO444 Conservation Biology
- BIO448 Field Botany and Plant Taxonomy
- BIO450 Endocrinology
- BIO455 Algae and Aquatic Plants
- BIO461 Techniques in Biotechnology
- BIO462 Invertebrate Zoology
- BIO463 Vertebrate Zoology
- BIO478 Microtechniques
- BIO485 Biological Microscopy & Imaging
- BIO491 Selected Topics
- BIO494 Field Research Techniques
- BIO501 Topics in Evolutionary Biology
- BIO513 Cytogenetics
- BIO514 Aquatic Entomology
- +BIO515 How to Research, Write, and Publish a Scientific Paper 1 cr.
- BIO516-519 Graduate Seminar 1 cr.
- BIO535 Problems in Plant Physiology
- BIO540 Biogeography
- BIO547 Wetland Ecology
- BIO555 Comparative Environmental Physiology
- BIO556 Physiological Mechanisms of Animal Behavior
- BIO557 Microbial Physiology
- BIO558 Microbial Ecology
- BIO559 Evolutionary Ecology
- BIO575 Modern Genetics
- BIO576 Structure of Vascular Plants
- BIO581 Topics in Mammalian Biology
- BIO583 Biological Techniques
- +BIO593 Biometry 1-3 crs.
- BIO594 Selected Topics
- BIO599 Independent Study
- +BIO600 Elements of Research
- BIO605-608 Graduate Research 3-12 crs.

- BIO609 Internship
- +BIO612 Thesis I
- +BIO613 Thesis II

Science Supervisor

For information concerning the post-master's degree program leading to Pennsylvania certification as a Science Supervisor, refer to the Department of Educational Leadership and Policy.

Communication/Journalism Department

- Edward J. (Ted) Carlin, Ph.D., *Chair* (477-1521)
- Jeffrey T. Bitzer, J.D.
- A. Joseph Borrell, Ph.D.
- Michael Drager, Ph.D.
- Margaret Evans, M.F.A.
- Kimberly Garris, M.S.
- William Pritchard, Ph.D.

Communication Studies (M.S.)

A minimum of 30 or 33 graduate semester hour credits is required for the completion of the Master of Science degree in Communication Studies. The number of hours required will be determined following an interview with each applicant to select the appropriate culminating experience for the degree: a thesis (30 s.h.) or a professional communications project (33 s.h.). Applicants who do not have an undergraduate degree in communication/journalism or extensive professional experience in communications will be required to take the appropriate graduate courses to make up this deficiency. (These courses will count as part of the student's program of study.) All applicants must provide two professional letters of reference and must provide a typed 400-500 word essay on the topic of benefits to be gained by completing this degree. All applicants who do not have an overall undergraduate quality point average of 2.75 or greater will be required to take the Graduate Record Exam (GRE) prior to admission.

All students accepted into the program must apply for candidacy status for the degree after completing at least six semester hours of graduate communications (COM) courses and any graduate deficiency courses specified by the department chair, provided he or she has earned at least 3.0, B average in all courses completed. Applications for candidacy status may be obtained from the communication/journalism department office.

In order to qualify for a Master of Science degree in communication studies, a candidate must satisfy one of the following study plans:

1. Complete a minimum of 30 graduate semester hour credits (course numbers 400 or higher) with a B average including a written thesis which is certified as acceptable by a three-person committee of the Communication Studies faculty.
2. Complete a minimum of 33 graduate semester hour credits with a B average including a communications project which is certified as acceptable by a member of the communication studies faculty who serves as the project advisor.

Communication Studies

The communication studies program is directed to:

1. The media professional who seeks personal enrichment and who wants to advance in his/her career;
2. The baccalaureate degree holder in communications who wishes to refine and build upon previous academic preparation in communications.
3. The baccalaureate degree holder in another discipline who wishes to prepare for a career in the professional communications field.

The goal of the program is to graduate students who have a sophisticated grasp of the theoretical and practical aspects of communications. In order to pursue a broad-based program of theory and research, and upon approval of the student's advisor, students may choose up to three graduate courses in other disciplines (i.e., human communication studies, English, political science, psychology, sociology, computer science, etc.).

REQUIRED COURSES (12 credits)

COM500 Communication Theory

COM544 Advanced Communication Problems
COM561 Press and Public Affairs
COM600 Introduction to Mass Communication Research

ELECTIVES (18-24 credits with advisement)

Students choose communications and related interdisciplinary courses to satisfy professional goals and personal interests. Students are limited to three interdisciplinary courses.

Communication Studies Electives:

COM400 Public Relations Writing
COM451 Electronic News Gathering
COM452 Electronic Field Production
COM460 Case Studies in Public Relations
COM470 Digital Photography
COM475 Book Production
COM476 Magazine Design
COM481 Interactive Media Design
COM482 Internet Communication
COM511 Modes of Film Communication
COM516 Photographic Communication
COM526 Emerging Mass Media Technologies
COM530 Law and the Media
COM536 World Broadcasting Systems
COM570 Fundraising and Association Public Relations
COM603 Professional Project in Mass Communications
COM609 Internship I
COM610 Internship II
COM612-613 Thesis I-II

Interdisciplinary Electives:

With their advisers' approval, students may select up to three interdisciplinary courses which enrich and broaden the communication studies curriculum.

Internships

COM609 Internship I and COM610 Internship II may be taken by qualified students. Each internship requires a minimum of 120 hours of work at a mass media-related organization. The main objective of the internship is to provide the student with direct experience in the operation of a newspaper, magazine, radio station, television station, public relations/advertising office, or other approved media-related organization.

Professional Organizations

A variety of professional organizations supplement instruction. There are active chapters of the National Broadcasting Society (NBS), the Public Relations Student Society of America (PRSSA), and the Society of Professional Journalists (SPJ). The department and many of its faculty belong to the Association for Education in Journalism and Mass Communications (AEJMC), the Broadcast Education Association (BEA), the Public Relations Society of America (PRSA), the Society of Professional Journalists (SPJ), the Pennsylvania Association of Broadcasters, and Pennsylvania Journalism Educators.

Communication/English Supervisor

For information concerning the post-master's degree program leading to Pennsylvania certification as a Communication/English Supervisor, refer to the Department of Educational Leadership and Policy.

Computer Science Department

Carol A. Wellington, Ph.D., *Chair* (477-1178)
John C. Arch, Ph.D.
Thomas H. Briggs, M.S.
C. Dudley Girard, Ph.D.
David A. Hastings, Ph.D.
David J. Mooney, Ph.D.
Mark H. Schroeder, Ph.D.
Glenn E. Stambaugh, M.S.
Joseph C. Thomas, Ph.D.

Computer Science (M.S.)

Computer science is a fast-moving field that continues to attract professionals whose undergraduate degrees are not in computer science. The M.S. in computer science is designed for those students who want to transition from another discipline into computer science. As such, it contains background material and the equivalent of a terminal master's degree in computer science. While assuming little computer science background, the program will provide students who intend to enter the job market upon

graduation with tools that will enable them to successfully adapt to technologies that are ever changing.

Full-time graduate students will take nine graduate credits per semester and graduate in two years. Part-time students can take one course in the evening during the fall and spring semesters and one or two courses in the summer to graduate in three and a half to four years. Students are admitted in cohorts in the fall semester only.

Admission Requirements

To gain admission to the Master of Science degree in computer science program, an applicant must satisfy the general admission requirements of the graduate school. Applicants whose overall quality point average is below 2.75 will be required to take the Graduate Record Examination (GRE) prior to admission. All international applicants who have not graduated from a four-year American university must take the Test of English as a Foreign Language (TOEFL). Additionally, all such applicants must achieve a score of 237 on the TOEFL (computer based).

Graduation Requirements

All students are required to take 36 credits consisting of:

- CSC500 Discrete Structures of Computer Science
- CSC510 Object Oriented Programming I
- CSC511 Object Oriented Programming II
- CSC512 Event Driven Programming
- CSC520 Computer Organization
- CSC521 Operating Systems
- CSC522 Parallel Architectures
- CSC530 Computer Networks and Communications
- CSC531 Web Programming
- CSC570 Database Management Systems
- CSC590 Testing and Debugging Strategies
- CSC599 Advanced Topics in Computer Science

Geography/Earth Science Department

William L. Blewett, Ph.D., *Chair* (477-1685)
Michael Applegarth, Ph.D.

Scott Drzyzga, ABD
Alison Feeney, Ph.D.
Thomas Feeney, Ph.D.
Kurtis Fuellhart, Ph.D.
Tim Hawkins, Ph.D.
Claire Jantz, Ph.D.
Paul Marr, Ph.D.
George Pomeroy, Ph.D.
Janet S. Smith, Ph.D.
Diane Stanitski, Ph.D.
Kay R.S. Williams, Ph.D.
Christopher J. Woltemade, Ph.D.

Geoenvironmental Studies (M.S.)

An applicant must meet the minimum standards of the School of Graduate Studies and must have an undergraduate minimum of:

- a. 12 hours in geography *or* 12 hours in the earth sciences *or* a combined total of 18 hours in the two fields; or,
- b. 15 hours in the social sciences including 6 hours of geography and 15 hours in the natural sciences including 6 hours in the earth sciences.

Conditional admission may be granted by the departmental graduate faculty committee for a student lacking the required level of entrance credits with full admission granted after the deficiencies have been corrected and six hours of graduate work successfully completed. Applicants who do not have an overall quality point average of 2.75 or greater will be required to take the Graduate Record Exam (GRE) prior to admission. Each student will plan a program on an individual basis with the graduate faculty ensuring a balanced natural/social science background.

The Master of Science degree program in geoenvironmental studies is for individuals employed with consulting firms, state or federal agencies, planning departments, engineers, planning commissions, public school teachers and administrators, local governments, and interested citizens who need advanced-level training in the environmental sciences. Increasing numbers of trained

personnel are needed in the field of geoenvironmental studies as substantiated by the increase in the number of agencies created to deal with environmental problems. This expansion is apparent within government at all levels, in education, in research foundations, and in industry (research, product planning, plant development, legal problems, operations and government relations). The graduates of Shippensburg University's program will be uniquely qualified to work on environmental impact assessments and audits, to implement drainage basin management and stormwater plans, to assess water systems and sources, to perform environmental geologic impacts, to design comprehensive land use plans and smart growth plans, to implement GIS (Geographic Information Systems) programs, and to follow proper research techniques to analyze environmental questions. Geographic information systems, computer applications, and field work are an integral part of the graduate program.

Geography/Earth Science Department Technology Center

The first floor of Shearer Hall houses the department's three technology labs. All computer labs are connected to the Internet and supplied with state-of-art data input/processing/output equipment.

The GIS Lab has 24 student workstations, each consisting of a computer and digitizing tablet. The lab has a flatbed scanner, laser printer for black and white hard copies, a color laser printer for map production, and an instructor's station for demonstration and PowerPoint presentations. First level courses (and primary software) such as Introduction to Geographic Information Systems (ArcView), Computer Mapping (AutoCad), and Cartography (Corel Draw) primarily utilize this lab.

The Ford Lab has 20 computers, a flatbed scanner, laser printer for black and white copies, color laser printer for map production, and an instructor's station for demonstrations and PowerPoint presentations. Upper-level courses such as Geographic Information Systems, Applied GIS, and Mapping Sciences

utilize this lab as well as special conferences and workshops.

The Faculty/Student Research Lab is a specialized lab with advanced capabilities. It houses a large-format digitizer and a large-format scanner for capturing data from existing maps, aerial photographs, and satellite images. Two PC computers and a SUN Ultra 5 workstation are available for data processing. Quality map products are printed on a large-format HP DesignJet color printer/plotter. This lab is designed to assist faculty, faculty/student, and student research projects.

For graduation with a Master of Science degree in geoenvironmental studies, a student must complete a minimum of 36 semester hour credits including 24 hours in geoenvironmental courses with advisement, six hours of electives in the behavioral and social sciences or natural sciences, and must complete a six-hour internship or master's thesis. If a six-hour internship is taken, a three credit geoenvironmental research course is required. A comprehensive written exam will be required after 24 hours of graduate work.

The department has a sequence of courses such as Mapping Sciences, Advanced GIS, Applied GIS, and Remote Sensing that provide valuable technology and computer applications to environmental problem solving.

I. FIELD OF SPECIALIZATION

Entrance level and advanced courses - 24 credits selected with advisement.

- ESS413 Mineral and Rock Resources
- ESS442 Environmental Geology
- ESS491 Selected Topics: Groundwater Geology
- GEO401 Geography of Tourism
- GEO402 Environmental Health
- GEO403 Natural Hazards and Hostile Environments
- GEO420 Geographic Information Systems
- GEO440 Field Techniques
- GEO441 Quantitative Methods
- GEO444 Environmental Land Use Planning
- GEO445 Remote Sensing
- GEO446 Water Resources Management
- GEO450 Geography-Geology Field Studies 1 cr.

- GEO490 Selected Topics: Environmental Law
- GEO500 Environments of the National Parks
- GEO514 Urban Environment
- GEO517 Applied GIS
- GEO522 Geoenvironmental Hydrology
- GEO524 The Geologic Environment
- GEO526 The Atmospheric Environment
- GEO528 Geography of Economic and Environmental Systems
- GEO530 Mapping Sciences
- GEO532 Geography of Environmental Health
- GEO536 Problems of the Atmospheric Environment
- GEO542 Land Use Regulations
- GEO546 Geoenvironmental Research I
- GEO548 Geoenvironmental Research II

II. INTERNSHIP OR THESIS

Six credit internship or thesis required. If an internship is taken, a 3 credit research course is required.

- GEO609-610 Internship I and II 6 crs.
- GEO612-613 Thesis I and II 6 crs.

III. NATURAL SCIENCES ELECTIVES

At least 3 credits required; to be selected with advisement.

IV. SOCIAL SCIENCES ELECTIVES

At least 3 credits required; to be elected with advisement.

History and Philosophy Department

- David F. Godshalk, Ph.D., *Chair* (477-1132)
- Kwabena Akurang-Perry, Ph.D.
- Steven Burg, Ph.D.
- Catherine Clay, Ph.D.
- Betty A. Dessants, Ph.D.
- Sabrina E. Joseph, Ph.D.
- Kim Klein, Ph.D.
- Chandrika Paul, Ph.D.
- John Quist, Ph.D.
- Vera Reber, Ph.D.
- Susan Rimby, Ph.D.
- Christine Senecal, Ph.D.
- Robert Shaffer, Ph.D.
- Jonathan Skaff, Ph.D.
- George Snow, Ph.D.
- Mark E. Spicka, Ph.D.

Applied History (M.A.)

Shippensburg University's graduate program in Applied History is designed for college graduates seeking advanced historical training and educators seeking professional development opportunities. For those seeking careers in the field of public history, the program offers coursework and professional internships to prepare students for employment in museums and historical institutions. Educators will find a diverse array of courses in United States history, world history, and historical methods that will deepen their historical knowledge and provide new resources for classroom use. (All courses can be used to help satisfy Pennsylvania's Act 48 requirements.) The curriculum provides a rigorous historical training that can also prepare students for further graduate work in history or library studies. Recent graduates have secured teaching positions at community colleges, obtained research and editorial positions in both public and private sector, and started public history careers with organizations such as History Associates Incorporated, the U.S. Army Military History Institute, and the National Park Service.

Admission Requirements

To be eligible to pursue a Master of Arts degree in applied history, you must:

- Have a baccalaureate degree from an accredited college or university.
- Present an official transcript showing at least a 2.75 cumulative quality point average for your undergraduate studies.

If you have less than a 2.75 cumulative undergraduate quality point average, you may be accepted following an interview and the submission of a 500-word Statement of Purpose in which you provide additional evidence of your interest in history, your potential as a graduate student, and your reasons for pursuing graduate studies.

Degree Requirements

The degree can be earned in approximately one and one-half years of full-time study or several years of part-time study. To be awarded a Master of Arts degree in applied

history, you must complete a minimum of 30 hours of graduate work distributed as follows:

REQUIRED COURSES (12 credits)

HIS600 Computerized Historical Research Methods	
HIS418 Introduction to Applied History and	
HIS609 and 610 Internship I and II	6 crs.
or	
HIS612 and 613 Thesis I and II	6 crs.

ELECTIVES (18 credits)

Chosen within the following fields:

I. HISTORY OF THE AMERICAS (9 credits)

HIS402 Revolutionary America	
HIS413 Pennsylvania History	
HIS428 Issues in the Gilded Age and Progressive Era	
HIS490 Selected Topics	1-3 crs.
HIS513 Seminar in U.S. Women's History	
HIS515 Seminar in 20th Century U.S. Social History	
HIS516 Seminar in African-American History	
HIS525 Seminar in U.S. Regional History	
HIS526 Seminar in Civil War Era	
HIS601 Research in Local and Regional History	

II. GLOBAL CONNECTIONS AND COMPARISONS (6 credits)

HIS407 Women in Comparative Perspective	
HIS410 The Islamic World	
HIS421 Studies in 19th Century European History	
HIS423 Issues in 20th Century Europe	
HIS454 China and the Outside World	
HIS490 Selected Topics	1-3 crs.
HIS499 Historiography	
HIS510 Seminar in the Social History of Education	
HIS512 Seminar in Comparative Labor History	
HIS514 Population in History	
HIS519 Seminar in International Relations	
HIS534 Seminar in Modern German History	
HIS535 Seminar in Medieval Studies	
HIS540 Comparative Latin American History	

- HIS545 History, Theory, and Pre-Industrial Societies
- HIS550 Seminar in South Asian History
- HIS555 Seminar in Russian, Soviet, and Post-Soviet History
- HIS558 Seminar in East Asia and the Modern World
- HIS562 Seminar in African History
- HIS601 Research in Local and Regional History

III. APPLIED HISTORY SKILLS (3 credits)

- HIS419 Advanced Topics in Public History
- HIS490 Selected Topics 1-3 crs.
- HIS494 Introduction to Archives 1-3 crs.
- HIS594 Selected Topics 1-3 crs.
- HIS598 Independent Study 3-6 crs.
- HIS599 Readings in History

Information Systems Studies (M.S.)

- Carol A. Wellington, Ph.D., *Chair, Department of Computer Science (477-1178)*
- Mary D. Myers, Ph.D., *Chair, Department of Accounting/Management Information Systems*
- John C. Arch, Ph.D., *Computer Science*
- Gary R. Armstrong, Ed.D., *Management Information Systems*
- Azim Danesh, Ph.D., *Management Information Systems*
- C. Dudley Girard, Ph.D., *Computer Science*
- David Hastings, Ph.D., *Computer Science*
- Michael Marsh, Ph.D., *Management Information Systems*
- Dave Mooney, Ph.D., *Computer Science*
- Robert D. Rollins, D.Ed., *Management Information Systems*
- Mark H. Schroeder, D.Ed., *Computer Science*
- Thomas G. Whisenand, Ph.D., *Management Information Systems*

Information systems permeate the business world. They are necessary to exist in an information dependent, competitive world. The Master of Science degree in information systems was developed to improve professional knowledge of information systems.

This interdisciplinary program is offered by the Departments of Computer Science and Accounting/Management Information Systems. The program is designed to educate students in the technology associated with information systems, the concepts and processes of information systems, and the organizational role of information systems. It is intended for students who, either through formal education or experience in the work place, have a background in both business/management and computer science/information systems.

Each year, a cohort of 20 to 30 individuals is selected to go through the 30-credit, 10-course program together. The program is intended for practicing professionals working within an organization that has a computer-based information system. Students accepted into the program will complete the requirements in two and one-half years, taking one course in each of the four, 11 week, semesters per year. This program has a significant distance education component with approximately fifty percent of the material being delivered over the web. The face-to-face classes will be held at the Dixon University Center in Harrisburg. A student must demonstrate knowledge in three broad areas acquired in a formal classroom setting or through experience in the work environment. The areas are:

Computer Programming: Problem analysis, algorithm synthesis, competence in programming in a high-level language (e.g., C++, COBOL, PASCAL, C, Java).

Quantitative Methods: Finite mathematics, elementary statistics, economic theory, accounting techniques, problem solving in business, and a working knowledge of microcomputer spreadsheets and database management systems.

Organizational Behavior: Elementary psychology, personality formation, attitudes, motivation, social psychology.

REQUIRED COURSES (30 credits)

- ISS515 Information Systems Project Management
- ISS520 Programs, Data, and File Structures

ISS530 Modeling and Decision Systems
ISS540 Data Communications, Networks, and
Distributed Data Processing
ISS550 Database Design
ISS560 Introduction to E-Business
ISS570 Information Analysis
ISS580 Web Programming
ISS590 Info. Systems Development I
ISS600 Info. Systems Development II

Political Science Department

C. Nielsen Brasher, Ph.D., *Chair* (477-1718)
Curtis R. Berry, Ph.D.
Cynthia A. Botteron, Ph.D.
Alison D. Dagnes, Ph.D.
Kim E. Fox, Ph.D.
Donald K. Frazier, Ph.D.
Michael Greenberg, Ph.D.
Sara A. Grove, Ph.D., J.D.
Ronnie B. Tucker, Ph.D.

Public Administration (M.P.A.)

In addition to the requirements for admission to graduate classes, the applicant for admission to the Master of Public Administration degree program must present a minimum of 6 semester hour credits in government or political science. Students will be required to make up any deficiencies in their undergraduate work.

Applicants who do not have an overall quality point average of 2.75 or greater will be required to pass a personal interview to evaluate life experiences or take either the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT) prior to admission.

The Master of Public Administration degree program requires the completion of a minimum of 36 semester hour credits of graduate work. Each student's program will include core courses and a six-credit thesis or an internship.

Organizational Theory and Behavior, PLS501, should be among the first core courses taken by students. PLS601 is a prerequisite for Public Policy Analysis, PLS603. PLS605 should be taken as late as

possible in a student's program to provide a capstone experience. Part or all of the internship requirement can be waived for mid-career applicants with substantial experience.

REQUIRED CORE COURSES (18 credits)

PLS501 Organizational Theory and Behavior
PLS502 Human Resources Management
PLS503 Foundations of Public Budgeting and Finance
PLS601 Research Methods
PLS603 Public Policy Analysis
PLS605 Applied Management Techniques in Public Administration

EXPERIENTIAL REQUIREMENTS (6 credits)

PLS611 Internship I
PLS612 Internship II
or
PLS621 Thesis I
PLS622 Thesis II

ELECTIVES (12 credits)

PLS431 Pennsylvania Local Government
PLS504 Ethics for Public Service Managers
PLS511 State Government
PLS512 Intergovernmental Relations and Programs
PLS521 Collective Bargaining and Labor Relations in the Public Sector
PLS551 Planning and Public Policy
PLS552 Seminar in Urban-Rural Planning
PLS561 Administrative Law
PLS591 Selected Topics

Psychology Department

Suzanne M. Morin, Ph.D., *Chair* (477-1657)
Jeffrey Bartel, M.S.
Angela M. Bartoli, Ph.D.
C. George Boeree, Ph.D.
Jamonn Campbell, Ph.D.
Kenneth France, Ph.D.
James D. Griffith, Ph.D.
Steven J. Haase, Ph.D.
Robert L. Hale, Ph.D.
Scott F. Madey, Ph.D.
Ronald Mehiel, Ph.D.
Kathryn Potoczak, Ph.D.
Toru Sato, Ph.D.
Adrian Tomer, Ph.D.
Kim Weikel, Ph.D.

Psychology (M.S.)

The Master of Science degree program in psychology is designed to provide advanced general knowledge of the field and the opportunity to develop more specific skills in research. In conference with faculty advisers, each candidate will develop a personal program designed to meet his or her own specific needs and interests. This program may be used to achieve the following goals: the enhancement of knowledge of psychology; and knowledge development for further graduate training.

An applicant must meet the minimum standards for admission into graduate school. Applicants must have a 2.75 quality point average. Six undergraduate credit hours in psychology and one course in statistics are required for admission. Each applicant will be required to submit an application and fill out a personal goals statement by the first Tuesday in April for summer or fall admission, or the first Tuesday in November for spring admission.

A total of 30 semester hour credits of graduate work is required for the Master of Science degree.

I. REQUIRED (6 credits)

PSY500 Advanced Research Design and Statistics
PSY540 History of Psychology

Note: PSY500 has a residency requirement - it must be taken from the Department of Psychology

II. CORE COURSES (12 credits)

(Chose one from each of the following 4 areas)

Learning and Motivation

PSY512 Theories of Learning
PSY516 Psychology of Motivation

Personality and Abnormal

PSY515 Theories of Personality
PSY534 Research in Abnormal Psychology
Developmental and Social

PSY519 Life Span

PSY533 Advanced Social Psychology

Biological and Cognitive

PSY5XX 500-Level Bio-Psychology Course
PSY531 Advanced Cognitive Psychology

III. ELECTIVES (12 credits)

PSY405 Qualitative Research Methods
PSY410 Psychology and Women
PSY420 Health Psychology
PSY430 Sensation and Perception
PSY435 Psychopharmacology
PSY470 Legal Psychology
PSY475 Industrial Organizational
PSY485 Tests and Measurements
PSY518 Behavior Modification
PSY527 Adolescence
PSY529 Psychology of Successful Aging
PSY530 Studies in the Psychology of the Exceptional Child
PSY534 Research in Abnormal Psychology
PSY590 Group Dynamics
PSY594 Selected Topics
PSY598 Independent Study
PSY612 Thesis I

Students completing Thesis I must also complete Thesis II to be awarded credit for Thesis I

PSY613 Thesis II

Note: No more than four courses (12 crs.) from 400-level may be taken.

Visit our website at www.ship.edu/~psych/ for the most current program information.

Sociology/Anthropology Department

Robert W. Pineda-Volk, Ph.D., *Chair* (477-1735)

Sandra Alvarez, Ph.D.

Philip Broyles, Ph.D.

Allison Carey, Ph.D.

Debra Cornelius, Ph.D.

Barbara J. Denison, Ph.D., *Director, Organizational Development and Leadership Program* (477-1257)

Cynthia Drenovsky, Ph.D.

Chad Kimmel, Ph.D.

Organizational Development and Leadership (M.S.)

The Organizational Development and Leadership Program is designed for students pursuing careers in management and

administrative positions. Its objective is to enhance students' understanding of how organizations operate and change over time and the role of leadership in formal and informal settings. In addition, students will have the opportunity to develop skills and increase their knowledge in selected discipline areas.

The Master of Science in organizational development and leadership is an interdisciplinary program that will provide students with several opportunities:

1. To learn basic principles and theories of organizational development and leadership.
2. To enhance skills and knowledge in specified content areas.
3. To combine theory with practical experience through an internship in the student's concentration.

Admission Requirements

Applicants must have a baccalaureate degree from an accredited college or university, have a minimum cumulative undergraduate quality point average of 2.75. If QPA was below 2.75, an interview is required.

Submit the graduate application along with a current résumé, a personal goal statement, an undergraduate transcript, and a \$30.00 non-refundable fee.

Degree requirements

CORE COURSES (12 credits)

SOC550 Leadership Theory and Practice
SOC560 Leadership, Change and Innovation
PLS501 Organizational Theory and Behavior
PLS601 Research Methods

CAPSTONE EXPERIENCE (6 credits) (recommended after 18-21 credits)

SOC570 Applied Leadership and
Organizational Analysis
SOC609 Internship (within concentration area)

CONCENTRATION AREAS and SELECT RECOMMENDED ELECTIVES (12 crs.)

Business

MBA 501 Economic and Information Systems
Management
MBA503 Business Operations and Analysis
MBA504 Essentials of Accounting and
Finance

MBA505 Organizational Behavior and
Marketing

MBA508 Strategic Management and
Leadership

Public Organizations

PLS502 Human Resources Management
PLS504 Ethics for Public Service Managers
PLS603 Public Policy Analysis
PLS605 Management Techniques in Public
Administration

Individual and Organizational Development

PSY420 Health Psychology
PSY475 Industrial and Organizational
Psychology

PSY515 Theories of Personality
PSY529 Psychology of Successful Aging
PSY590 Introduction to Group Dynamics

Environmental Management

GEO420 Geographic Information Systems
GEO440 Field Techniques
GEO444 Environmental Land-Use Planning
GEO445 Remote Sensing
GEO446 Water Resources Management
GEO528 Economic-Environmental System
GEO530 Mapping Sciences
GEO542 Land-Use Regulation
GEO545 Image Processing of Remotely
Sensed Data
GEO594 Environmental Law

Education

ELP500 General School Administration
ELP505 Computers and the School
Administrator
ELP569 Diversity in Education
ELP574 Finance and the School Principal
ELP591 School Law
ELP592 General School Supervision

Communications

COM500 Communication Theory
COM526 Emerging Mass Media Technologies
COM530 Law and the Media
COM536 World Broadcasting Systems
COM544 Advanced Communication Problems
COM561 Press and Public Affairs
COM600 Introduction Mass Communication
Research

Additional courses are available with the approval of the program director.

Applied Experiences (6 credits)

All students must fulfill the capstone experience that requires completion of a 3-

credit internship in some administrative capacity within their concentration area. The internship is ideally taken simultaneously with the Applied Leadership and Organizational Analysis course where students will complete an organizational analysis project.

John L. Grove
College of
Business

Stephen J. Holoviak, Ph.D., *Dean, John L. Grove College of Business* (717-477-1435)

Business Administration (M.B.A.)

Robert D Rollins, D.Ed., MBA Director
(717-477-1483)

Larry Bitner, D.B.A., Accounting

Angela Chang, Ph.D., Marketing

Michael Coolsen, Ph.D., Marketing

Azim Danesh, Ph.D., Computer &
Information Sciences

Louise Hatfield, Ph.D., Management

Jonathan Kohn, Ph.D., Information

Management and Analysis

James J. Mackie, Ph.D., Accounting

Shelley Morrisette, Ph.D., Management

Rob Neidigh, Ph.D., Supply Chain

Management

William Oberman, Ph.D., Management

Hong Rim, Ph.D., Finance

Robert Stephens, Ph.D., Management

Vicki Taylor, Ph.D., Management

Joanne Tucker, Ph.D., Information

Management and Analysis

The M.B.A. program at Shippensburg University is designed to meet the needs of working professionals. The program can be completed on a part-time basis in two years, taking two courses a semester on one night a week, and two courses in the summer. Video conferencing technology provides students with the opportunity to attend class at either Shippensburg University or the Dixon University Center in Harrisburg. Two-thirds of each course is taught in an electronic classroom and delivered via video conferencing technology, through Shippensburg University to the Dixon University Center in Harrisburg; thus providing students the opportunity to interact with the professor and other students face-to-face from multiple sites. Employers desiring to have their electronic conference room added as a video conferencing site for the Shippensburg M.B.A. should contact the M.B.A. Director. Students spend two-thirds of their time in the electronic classroom and one-third on web-based activities, providing students with flexibility and convenience in completing their

coursework. Each class meeting is videotaped, so that when students cannot attend class due to work requirements, they may view the missed classes on-line via video streaming.

The John L. Grove College of Business is accredited by AACSB International, which certifies the quality of the curriculum, faculty, and support services. The program consists of 10 courses (30 credits), which includes 8 core courses and 2 elective courses. The core courses cover critical elements of business management in today's technologically advanced and global business environment. The course sequence is flexible, as the core courses do not have prerequisites beyond the basic requirements to enter the M.B.A. program. One of the elective options is a business practicum that provides students with the opportunity to address actual problems within the business environment.

Admission Requirements

Undergraduate course work and degree, relevant work experience, and GMAT score will be evaluated and form the basis for admission. To be eligible for admission to the M.B.A. Program applicants must:

- Have a baccalaureate degree from an accredited college or university.
- Provide a GMAT score if undergraduate QPA is less than 3.0.
- Present a current résumé.

In addition, applicants are required to meet the following prerequisites:

- Work experience or undergraduate credits in:
 - Quantitative analysis,
 - Computer usage, and
 - Oral and written communications.

These areas are covered in the following courses offered at Shippensburg University:

- ENG101 College Writing
- INM200 Statistical Applications in Business
- MIS142 Business Computer Systems

- HCS100 Basic Oral Communication
- Prerequisite knowledge in accounting, economics, finance, organizational behavior, marketing, and operations management.

These areas are covered in the following courses offered at Shippensburg University:

- MBA501 Economics and Information Systems Environment
- MBA503 Business Operations and Analysis
- MBA504 Essentials of Accounting and Finance
- MBA505 Organizational Behavior and Marketing

CORE COURSES (24 credits)

MBA502 Managerial Accounting
MBA529 Global Managerial Finance
MBA552 Entrepreneurship
MBA554 International Business
MBA556 Organizational Leadership
MBA565 Information Management and Analysis for Decision Making
MBA577 Supply Chain Management
MBA593 Strategic Management

ELECTIVE COURSES (6 credits)

MBA532 Marketing Research
MBA533 Business Operations and Logistics Planning
MBA534 Buyer Behavior
MBA547 Management Information Systems and Applications
MBA561 Human Resources and Development
MBA570 Marketing Management
MBA572 Marketing in a Technological Environment
MBA594 Selected Topics
MBA595 Selected Topics in Strategic Human Resource Management
MBA596 Business Practicum
MBA599 Independent Studies

Electives from Arts and Science and Education (pending approval of M.B.A. Director)

For more information contact:

(717) 477-1483

www.ship.edu/~business/

Certificate of Advanced Studies in Business

The Certificate of Advanced Studies in Business allows professionals from various backgrounds to learn how management principles can be applied in any business or organization. Professionals will select four courses from five offerings that teach the essentials of business management and cover such topics as financial and operations management, employee and customer relations, external economic environment, and strategic direction and leadership.

These courses will also meet the needs of professionals who wish to earn an MBA but lack the necessary course pre-requisites.

The 16-credit program is designed to meet the needs of working professionals and can be completed in one year, taking one course, one night a week. Video-conferencing technology provides students with the opportunity to attend class at either Shippensburg University or Dixon University Center in Harrisburg. One-half of each course is taught in an electronic classroom and broadcast to the remote site via video-conferencing technology, thus providing students the opportunity to interact with the professor and other students face-to-face from multiple sites. Students spend one-half of their class time in the electronic classroom and one-half on web-based activities, providing students with flexibility and convenience in completing coursework. Each class meeting is videotaped, so that when students cannot attend class due to work requirements, they may view the missed class online via video-streaming.

Each course is:

- 12 weeks, 4 credits
- Limited to 20-25 students
- 100 percent distance education: 50 percent video-conferencing and 50 percent online.

Courses (4 credits each)

- MBA501 Economics and Information Systems Environment
- MBA503 Business Operations and Analysis
- MBA504 Essentials of Accounting and Finance
- MBA505 Organizational Behavior and Marketing
- MBA508 Strategic Management and Leadership

Admission Requirements

Applicants must:

- Have a bachelor's degree from an accredited institution.
- Submit a completed application.
- Have official undergraduate and graduate (if applicable) transcripts sent to Shippensburg University.

There is no admission fee for the certificate program. Applications must be submitted no later than the completion of 8 credits in the program.

Registration

Register and pay for courses online at www.ship.edu/extended. Registration will be available six weeks prior to the start of each course. For more information on the application process, registration procedures, and tuition/fees, go to www.ship.edu/extended.

MBA Option

Option to transfer to MBA Program:

- MBA 501, 503, 504, and 505 may be used to satisfy MBA prerequisite/foundation requirements.
- Those individuals who earn a certificate with a 3.0 or better in each course, and have taken 501, 503, 504, and 505 may apply to the MBA without taking the GMAT, and will be accepted based on space availability, if they have a baccalaureate degree from an accredited college or university.
- Application to the MBA Program must be made no later than the completion of 12 credits.

College of
Education and
Human Services

Robert B. Bartos, Ed.D., *Dean, College of Education and Human Services* (717-477-1373)

Counseling and College Student Personnel Department

Jan L. Arminio, Ph.D., *Chair* (477-1668)

Clifford W. Brooks, Jr., Ed.D.

Andrew L. Carey, Ph.D.

Shirley A. Hess, Ph.D.

Kurt L. Kraus, Ed.D.

Bill J. McHenry, Ph.D.

Beverly L. Mustaine, Ed.D.

Todd K. Whitman, Ph.D.

Counseling Center

Philip Henry, Ph.D., Director

Kathryn A. Brooks, Ph.D.

Tomoko Grabowsky, Ph.D.

Michelle Olexa, Ph.D.

Mission Statement

The mission of the Department of Counseling and College Student Personnel, as an entity of Shippensburg University, its Graduate School, and the College of Education and Human Services, is to develop students' academic and personal potential through a comprehensive counselor education program for graduate counseling students and through multi-faceted counseling services for all university students.

The department's mission integrates the principles of a meaningful learning environment, professionalism, and individual responsibility. It strives to be a respected leader in the promotion of dignity, acceptance, and collaboration within the Shippensburg University campus environment.

Specifically, it seeks to graduate highly skilled practitioners in counseling by utilizing experiential learning opportunities in an atmosphere of intellectual, investigative, and creative scholarly curiosity. The department nurtures students to become congruent lifelong learners, noble practitioners, and leaders in the profession who embrace scientific inquiry, technology, and innovative practices. Through authentic relationships with invested faculty

who model intentional practice based firmly in theory and cultural advocacy, students develop the knowledge and skills necessary to be purposeful, effective practitioners with a strong sense of personal and professional identity. The department is committed to providing quality counseling, psychological services, outreach, and training in a welcoming environment that embraces diversity and high ethical standards. It strives to facilitate the optimal growth and achievement potential, as well as the emotional and behavioral health, of the students, faculty, and staff members of the campus community.

Department Goals for Student Learning

The department and faculty are dedicated to the development of students both as counselors and individuals. Thus, department goals for student learning address both the professional and personal development of students. The following eleven overall departmental goal statements identify specific behaviors that are expected of students successfully completing any of the counseling concentrations.

- A high level of personal growth and development.
- Understanding of basic subject matter underlying the practice of counseling and guidance.
- The ability to gather, analyze, and interpret individual and group data.
- The ability to generate and test hypotheses about human behavior.
- The ability to counsel effectively in both individual and group settings.
- The ability to design, implement, and evaluate appropriate programs and interventions.
- The ability to determine how the goals and objectives of counseling programs relate to the goals of the institution or agency.
- The ability to perform effective consultation, coordination, and referral.
- The ability to understand and demonstrate ethical behavior and to be aware of the legal implications of one's actions.
- A sense of responsibility for one's own professional identity and growth.

- The ability to be sensitive to and understand the needs of all students and clients, including the ability to (1) examine attitudes and myths and (2) understand the sociopolitical forces impacting students and clients who are traditionally underrepresented.

Accreditation

In addition to the accreditations shared with the university, the College Student Personnel, School Counseling, College Counseling, Community Counseling, Mental Health Counseling, and School Counseling programs are approved by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA). CACREP approval is a professional standards accreditation which validates the quality of education of counseling and related programs. Accreditation in counseling is closely related to the credentialing process established by the American Counseling Association (ACA). Upon successful completion of the National Counselor Exam, graduates of CACREP approved programs are eligible to become Nationally Certified Counselors without additional supervised experience.

Programs Offered

The Department of Counseling and College Student Personnel offers graduate programs leading to the Master of Education degree in counseling with certification as elementary or secondary school counselors and the Master of Science degree with specialization in community or college counseling or college student personnel. A 60-hour Master of Science degree with specialization in mental health counseling is also offered.

Admission to Program

All applicants for admission to the Department of Counseling and College Student Personnel program must begin by applying to the Office of Graduate Admissions. The Office of Graduate Admissions will supply the

applicant with required departmental application forms after notification the individual has met the requirements of the Office of Graduate Admissions.

Admission to the Department of Counseling and College Student Personnel is a process rather than a one-step event. Generally, the admission procedure requires a full academic semester for processing applications, credentials, references, supplemental data form, and the on-campus interview. Students are encouraged to begin this process at least six months prior to the desired starting date. Students must be interviewed and admitted to the counseling department before they will be allowed to enroll in counseling courses.

Applicants for admission to the program must meet the requirements for the specialization and for the Department of Counseling and College Student Personnel in addition to the general requirements for admission to graduate study.

1. It is expected applicants possess relevant experience prior to admission to graduate study. Applicants to the School Counseling concentration are *expected* to have a minimum of a year's experience working with children (for example, as a teacher, probation officer, child protective services worker, etc.), and a 3.0 QPA in undergraduate degree work.

Applicants to all other concentrations are expected to have a minimum of a year's experience working or volunteering with individuals or groups similar to those individuals that he/she plans to work with upon graduation from the program, and a 2.75 QPA in undergraduate work.

2. Applicants who do not have an overall undergraduate cumulative QPA of 2.75 or higher are required to take the Graduate Record Exam (GRE) prior to admission. Conditions for retention may be made at the time of admission.

For the Community, Mental Health, and College Counseling programs and the College Student Personnel Program, a 2.75 undergraduate QPA is the minimum. If applicants to these programs have less than a 2.75, they must successfully complete the

Graduate Record Exam (GRE) or Miller Analogies Test (MAT).

For the Elementary and Secondary School Counseling Programs, a 3.0 undergraduate QPA is the minimum as required by the Pennsylvania Department of Education.

Completing the GRE or MAT is, therefore, not an option for applicants to the Elementary or Secondary School Counseling programs.

3. Applicants are required to submit a résumé, three references on department forms, and supplemental data forms. If the applicant meets the initial requirements, the Admission Committee will invite the applicant for an interview. The applicant will be notified by mail of this decision. Applicants who are invited to an interview will be evaluated with respect to personal integrity, professional attitude, capacity to communicate, and appropriateness of counseling as a career choice.

During the personal interview, each student will receive a copy of the *Student Manual*. This manual is an important supplement to the graduate catalog in that it includes policies and procedures unique to the Department of Counseling and College Student Personnel.

Applicants to all concentrations are expected to have a minimum of one year's experience (paid or volunteer) in the area to which they are applying.

Students are admitted to either Elementary or Secondary School Counseling at the time of application. Students may apply for dual certification at candidacy.

Students applying to the school counseling programs must pass the Pre-Professional Skills Tests (reading, writing, and mathematics) required by the Pennsylvania Department of Education. Successful candidates to the school counseling programs will be provisionally accepted until they pass these tests. Provisional acceptance allows students to register for courses, but will only remain valid until the time of candidacy at the end of Phase I. If students have not passed these three tests by the time of candidacy, they will be dismissed from the program.

Because counseling and personnel work include a variety of experiences in practicum, internship, or other clinical experiences, the student's effectiveness and suitability for the program will be subject to an ongoing and broad-based evaluation by faculty and/or field supervisors. Decisions regarding continuance of studies will be predicated on a combination of factors such as demonstrated clinical competencies, personality factors, and other relevant issues in addition to grades in course work.

Under certain conditions, a counseling department committee may ask students to do one or more of the following:

1. Interrupt their program for a specified period of time.
2. Engage in a therapeutic relationship with a qualified mental health specialist for the purpose of remediation or for the purpose of decreasing those behaviors which detract from the ability to provide a constructive helping relationship to others.
3. Submit for review additional supportive evidence which demonstrates competence in the skill areas deemed deficient via audio or videotapes or live presentations of skills, etc.
4. Limit enrollment to those courses which do not have a significant experiential component for a specified period of time.

Admission to Candidacy

1. All candidates must apply through the department for admission to candidacy. This should be done during the semester CNS585 Practicum is scheduled.
2. The purposes of candidacy are to ensure students are integrating material from the classroom to real-life experiences, to verify professional goals are specific and focused, to determine if students have formulated a realistic view of what they need to do to become effective professionals, and to ensure students can express themselves regarding controversial issues in the field.
3. Candidates are evaluated with respect to attitude, aptitude, competency, and

potential for completing the requirements of their requested program.

4. Specific procedures for admission to candidacy are outlined in the Department of Counseling and College Student Personnel's *Student Manual* made available at the admissions interview.

Certification in Counseling

The Department of Counseling and College Student Personnel offers graduate programs leading to the following certificates for school counselors:

- Elementary School Guidance Counselor (Specialist I)
- Secondary School Guidance Counselor (Specialist I)

Completion of the appropriate program in counseling is required for certification as an elementary school guidance counselor or as a secondary school guidance counselor. A quality point average of 3.0 must be maintained. Additionally, a grade of B or better must be earned in CNS578 Pre-Practicum and CNS585 Practicum, and a grade of pass must be earned in CNS580/589 Field Experience I and II, to qualify for continuation in the program and department endorsement for certification.

Licensure in Counseling

The Department of Counseling and College Student Personnel offers a 60-hour graduate program in Mental Health Counseling that enables students to become eligible for licensure as a professional counselor in Pennsylvania.

Counseling (M.S.)

The Master of Science degree with specialization in counseling has been designed to meet the needs of students whose backgrounds and aspirations vary. Its orientation is toward persons who are preparing for service in areas other than elementary and secondary schools; therefore, completion of the Master of Science degree will not lead to certification as a school counselor. A minimum of 48 semester hour

credits is required for completing the degree. A common core curriculum provides each student with a common base of substantive and experiential knowledge. The remaining credits are taken in an area of emphasis which has been planned with the close assistance of an adviser.

Students in this counseling program may select, with departmental approval, an area of emphasis from the following: College Counseling, College Student Personnel, Community Counseling, or Mental Health Counseling.

The College Counseling concentration prepares counselors to work in therapeutic settings at colleges, universities, and community colleges.

The College Student Personnel concentration provides preparation for persons who plan to work as student affairs administrators in colleges, universities, or community colleges.

The Community Counseling concentration is designed to prepare students to work in community agency settings with a focus on community need and promotion of counseling services.

The Mental Health Counseling concentration is designed to prepare students to work in therapeutic mental health settings with an emphasis on assessment, diagnosis, and direct counseling services.

College Counseling Concentration

REQUIRED COURSES (48 credits)

Courses are organized into three phases and should be taken in that order. The sequence within each phase should be followed as closely as possible. Consultation with an adviser on a regular basis is required as a student progresses through the program. A student must apply for admission to candidacy the semester he or she is enrolled in Practicum.

Phase I (Required by all students)	15
	credits
CNS559 Introduction to Helping Services	
CNS600 Research and Statistics	
CNS515 Career Development	

PSY519 Life Span Psychology
 CNS578 Pre-Practicum in Counseling
 Phase II

27
 credits

CNS585 Practicum in Counseling
 CNS522 Assessment Techniques in
 Counseling
 CNS509 Multicultural Counseling
 CNS573 Theories of Counseling
 CNS512 Group Counseling Leadership
 Skills
 CNS560 Introduction to College Personnel
 Work
 CNS565 The College Student and the
 College Environment
 CNS588 Advanced Psychotherapeutic
 Skills
 CNS524 DSM-IV Classification of
 Psychopathology

9 credits

Phase III
 CNS580 Clinical Field Experience I
 CNS589 Clinical Field Experience II
 Optional Classes
 Elective
 Elective

Minimum = 48 credits

**College Student Personnel
 Concentration**

REQUIRED COURSES (48 credits)

Courses are organized into three phases and should be taken in that order. The sequence within each phase should be followed as closely as possible. Consultation with an adviser on a regular basis is required as a student progresses through the program. A student must apply for admission to candidacy during the semester he or she is enrolled in Practicum.

While it is possible to complete the program as a part-time student, several of the advanced courses meet in the late afternoon, and most of the practicum and Field Experience sites require the student be available during the 8 am to 5 pm time frame.

Phase I (Required by all students) 15
 credits

CNS559 Introduction to the Helping
 Services
 CNS600 Research and Statistics
 CNS515 Career Development
 PSY519 Life Span Psychology
 CNS578 Pre-Practicum in Counseling
 Phase II

21
 credits

CNS585 Practicum in Counseling
 CNS522 Assessment Techniques in
 Counseling
 CNS509 Multicultural Counseling
 CNS512 Group Counseling Leadership
 Skills
 CNS560 Introduction to College Personnel
 Work
 CNS565 The College Student and the
 College Environment
 CNS587 Advanced Research Seminar in
 Counseling Leadership Elective

12
 credits

CNS562 Student Personnel Work in
 Higher Education
 CNS580 Clinical Field Experience I
 CNS589 Clinical Field Experience II
 Elective
 Research Project

Minimum = 48 credits

In addition to the for credit courses, each student majoring in College Student Personnel is required to complete a research project during the program. The proposal for the study should be completed during the CNS600 research course which should be taken during the first semester of full-time study. Work on the project will be continued in CNS587, Advanced Research Seminar in Counseling. The completed project must be submitted to the student's advisor two months prior to graduation.

Community Counseling Concentration

REQUIRED COURSES (48 credits)

Courses are organized into three phases and should be taken in that order. The sequence within each phase should be followed as

closely as possible. Consultation with an adviser on a regular basis is required as a student progresses through the program. A student must apply for admission to candidacy the semester he or she is enrolled in Practicum.

Phase I (Required by all students) 18 credits

- CNS559 Introduction to Helping Services
- CNS578 Pre-Practicum in Counseling
- CNS563 Professional Orientation to Community Counseling
- CNS573 Theories of Counseling
- CNS512 Group Counseling Leadership Skills
- CNS524 DSM-IV Classification of Psychopathology

Phase II

21 credits

The following courses must be taken prior to enrolling in Clinical Field Experience I:

- CNS585 Practicum in Counseling
- CNS588 Advanced Psychotherapeutic Skills

The following courses may be taken anytime during the program:

- CNS600 Research and Statistics
- CNS515 Career Development
- PSY519 Life Span Psychology
- CNS522 Assessment Techniques in Counseling

The following course may be taken anytime during Phase II or Phase III in the program:

- Elective 3 credits

Phase III

6 crs.

Clinical Field Experiences I and II are culminating experiences in the Community Counseling concentration and are generally taken in the last two semesters of the program.

- CNS580 Clinical Field Experience I
- CNS589 Clinical Field Experience II

Minimum = 48 credits

**Mental Health Counseling Concentration
REQUIRED COURSES (60 credits)**

Courses are organized into three phases and should be taken in that order. The sequence within each phase should be followed as closely as possible. Consultation with an adviser on a regular basis is required as a student progresses through the program. A

student must apply for admission to candidacy the semester he or she is enrolled in Practicum.

Phase I (Required by all students) 18 credits

- CNS559 Introduction to Helping Services
- CNS578 Pre-Practicum in Counseling
- CNS568 Professional Orientation to Mental Health Counseling
- CNS573 Theories of Counseling
- CNS512 Group Counseling Leadership Skills
- CNS524 DSM-IV Classification of Psychopathology

Phase II

24

credits

The following courses must be taken prior to enrolling in Clinical Field Experience I:

- CNS585 Practicum in Counseling
- CNS588 Advanced Psychotherapeutic Skills
- CNS510 Drug and Alcohol Counseling
- CNS508 Marital, Couple, and Family Counseling

The following courses must be taken anytime during the program:

- CNS509 Multicultural Counseling
- CNS600 Research and Statistics
- CNS515 Career Development
- PSY519 Life Span Psychology
- CNS522 Assessment Techniques in Counseling

Electives

6 credits

Two of the following electives may be taken at anytime during Phase II or III in the program:

- CNS564 Grief and Loss Issues in Counseling
- CNS567 Counseling Children
- PSY435 Psychopharmacology

Phase III

9 credits

Clinical Field Experiences I and II must be taken sequentially in the Mental Health Counseling concentration.

- CNS580 Clinical Field Experience I
- CNS589 Clinical Field Experience II
- CNS590 Advanced Clinical Field Experience

Minimum = 60 credits

Counseling (M.Ed.)

A minimum of 48 semester hour credits of graduate work is required for the Master of Education degree with specialization in counseling. Students in the Master of Education degree curriculum in counseling may specialize in Elementary School Counseling or in Secondary School Counseling.

Elementary School Counseling Concentration (degree and certification)

REQUIRED COURSES (48 credits)

Courses are organized into three phases and should be taken in that order. The sequence within each phase should be adhered to as closely as possible. Consultation with an adviser on a regular basis is required as a student progresses through the program. A student must apply for admission to candidacy during the semester he or she is enrolled in Practicum.

Phase I 15-18 credits

CNS559 Introduction to Helping Services
 CNS515 Career Development
 CNS600 Research and Statistics
 PSY519 Life Span Psychology
 CNS578 Pre-Practicum in Counseling
 TCH511 Elementary School Curriculum*
 (*Only if not certified to teach Elementary level)

Note: All students must successfully complete the three subtests of the PPST (i.e. reading, mathematics, writing) of the Praxis examination prior to candidacy.

Phase II 21 credits

CNS585 Practicum in Counseling
 CNS573 Theories of Counseling
 CNS522 Assessment Techniques in Counseling
 CNS512 Group Counseling Leadership Skills
 CNS509 Multicultural Counseling
 CNS505 Organization and Administration of School Counseling Services

CNS567 Counseling Children

Phase III 6 crs.

CNS580 Clinical Field Experience I

CNS589 Clinical Field Experience II

Electives 6 crs.

***Choose one from the following:

EEC550 Foundations of Learning Disabilities

EEC411 Introduction to Exceptionality

TCH475 Inclusive Education: Practical Approaches

Electives 6 crs.

***Choose one from the following:

CNS508 Marriage and Family Counseling

CNS510 Drug and Alcohol Counseling

CNS564 Grief and Loss Issues in Counseling

Minimum = 48-51 crs.

Note: Not all courses are offered each semester.

***Certification in School Counseling by the Pennsylvania Department of Education requires successful completion of the School Guidance and Counseling PRAXIS examination (#0402). Students should register for and take this test prior to admission or by the time of candidacy.

Secondary School Counseling Concentration (degree and certification)

REQUIRED COURSES (48 credits)

Courses are organized into three phases and should be taken in that order. The sequence within each phase should be adhered to as closely as possible. Consultation with an adviser on a regular basis is required as a student progresses through the program. A student must apply for admission to candidacy during the semester he or she is enrolled in Practicum.

Phase I 15-18 credits

CNS559 Introduction to Helping Services
 CNS515 Career Development
 CNS600 Research and Statistics
 PSY519 Life Span Psychology
 CNS578 Pre-Practicum in Counseling
 ELP512 Curriculum in the Modern Secondary School*

(*Only if not certified to teach Secondary level)

Note: All students must successfully complete the three subtests of the PPST (reading, mathematics, writing) of the PRAXIS examination prior to candidacy.

Phase II 21 credits

CNS585 Practicum in Counseling
CNS573 Theories of Counseling
CNS522 Assessment Techniques in Counseling
CNS512 Group Counseling Leadership Skills
CNS509 Multicultural Counseling
CNS505 Organization and Administration of School Counseling Services
CNS588 Advanced Psychotherapeutic Skills

Phase III 6 credits

CNS580 Clinical Field Experience I
CNS589 Clinical Field Experience II

Electives 6 crs.

***Choose one from the following:

EEC550 Foundations of Learning Disabilities
EEC411 Introduction to Exceptionality
TCH475 Inclusive Education: Practical Approaches

***Choose one from the following:

CNS508 Marriage and Family Counseling
CNS510 Drug and Alcohol Counseling
CNS564 Grief and Loss Issues in Counseling

Minimum = 48-51 credits

Note: Not all courses are offered each semester

***Certification in School Guidance Counseling by the Pennsylvania Department of Education requires successful completion of the School Guidance and Counseling PRAXIS examination (#0420). Students should register for and take this test prior to admission or by the time of candidacy.

Supervisor of School Guidance

For information concerning the post-master's degree program leading to

Pennsylvania certification as a supervisor of school guidance services, refer to the Department of Educational Leadership and Policy.

Criminal Justice Department

Robert M. Freeman, Ph.D., *Chair* (477-1558)
Thomas L. Austin, Ph.D.
Todd E. Bricker, Ph.D.
Donna C. Hale, Ph.D.
James L. Jengeleski, Ed.D.
Stephanie A. Jirard, J.D.
John H. Lemmon, Ph.D.
E. Britt Patterson, Ph.D.
Laura A. Patterson, Ph.D.

Administration of Justice (M.S.)

Applicants for admission to graduate study with specialization in administration of justice will be expected to have completed an undergraduate program in criminal justice or a closely related allied field. Admission is based on a 2.75 or better undergraduate quality point average or satisfactory scores on the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT).

Mission Statement

The Department of Criminal Justice offers two programs of graduate study, each of which lead to the Master of Science degree in administration of justice. The evening program on-campus is designed for both pre- and in-service students pursuing graduate study under a traditional format. The weekend program is designed specifically for juvenile probation officers employed in the Commonwealth of Pennsylvania. A minimum of 36 semester hours of graduate level credits is required to complete each program.

As the systems designed to deliver justice services are continually asked to function effectively in an increasingly complex society, the need for capable criminal justice professionals becomes more and more pressing. The mission of the Department of

Criminal Justice graduate programs is to provide current and future criminal justice professionals with the background and skills that will enable them to think critically about the problems of crime and justice and to be effective decision makers in the criminal justice arena. Central to achieving this mission is an integrated program of study designed to provide graduate students with the knowledge and skills to undertake independent, critical investigation of issues related to crime control and justice policy.

The specific objectives of the Department of Criminal Justice's graduate programs are to:

1. Develop an academic environment that will be intellectually challenging and stimulating to both student and faculty.
2. Foster a commitment to pursuing the activities of education, scholarship, and public service in a manner that is consistent with the intellectual traditions of social science inquiry.
3. Provide an intellectual environment that values human diversity and encourages independent and critical thought.
4. Provide an intellectual environment that encourages teaching and scholarship from a diversity of theoretical perspectives and research methodologies.
5. Provide graduate curricula that will provide the knowledge and skills fundamental to criminal justice professionalism.
6. Provide a sound foundation for the pursuit of a doctoral degree in criminal justice.
7. Provide the opportunity for students who are currently criminal justice professionals to extend their knowledge and skills in their area of specialization.
8. Develop professional leadership in the criminal justice field.
9. Introduce students to the research techniques that will enable them to undertake independent research in their areas of specialization and effectively interpret and make use of the research conducted by other professionals.
10. Provide an understanding of the relationship between public policy formulation and criminal justice system behavior.
11. Provide individuals and agencies within the college's service area with needed programs and consultant services appropriate to the resources of the department.

REQUIRED CORE COURSES (24 credits)

CRJ501 Foundations of Justice
CRJ520 Justice Administration and Management
CRJ550 Graduate Seminar
CRJ560 Theories of Crime and Delinquency
CRJ590 Justice Policy Analysis
CRJ600 Research Methods
CRJ610 Quantitative Analysis
CRJ635 Restorative Justice

CRIMINAL JUSTICE ELECTIVES(12 crs.)

CRJ570 Legal Trends and Issues
CRJ580 Juvenile Justice System
CRJ585 Treatment and Rehabilitation
CRJ593 Independent Study
CRJ594 Selected Topics
CRJ595 Practicum I
CRJ597 Practicum II
CRJ612 Thesis I
CRJ613 Thesis II
CRJ617 Internship I
CRJ618 Internship II

INTERDISCIPLINARY COURSE(S) 6-9 credits

With Department of Criminal Justice approval, and providing the student meets the requirements of the department offering the course, courses numbered 500 and above can be taken from one or more of the following: Counseling, Educational Leadership and Policy, Government/Public Administration, History, Psychology, and Special Education. These may be substituted for Criminal Justice electives up to a maximum of nine (9) credits.

Educational Leadership and Policy Department

Nancy H. Stankus, Ed.D., *Chair* (477-1591)
Phillip F. Diller, Ed.D.
Gerald L. Fowler, Ph.D.
James A. Ryland, Ph.D.

Programs Offered

The Department of Educational Leadership and Policy offers graduate programs leading to the Master of Education degree in educational leadership and post-master's degree programs

leading to the certification of K-12 principals, and the Superintendent's Letter of Eligibility. The department also offers post-master's degree programs leading to the Supervisory I Certificate in 12 fields of specialization. Applicants who do not have an overall quality point average of 2.75 or greater will be required to schedule a personal interview with the Department of Educational Leadership and Policy prior to admission to the degree program.

Students matriculating for a degree and/or certification in educational leadership at Shippensburg University shall be given preference for class seats over students not enrolled in a graduate program in educational leadership when the demand for a particular class exceeds the class enrollment.

Students in educational leadership programs are encouraged to take the following courses in their initial 18 hours of graduate studies:

- ELP500 General School Administration
- ELP592 General School Supervision
- ELP580 Statistical Methods in Education
- ELP600 Research for School Administrators
- ELP501 Curriculum for School Leaders K-12

It is highly recommended ELP580, Statistical Methods in Education, and ELP600, Research for School Administrators, be taken as soon as possible in their program of studies. Students should register for ELP580 prior to taking ELP600.

In those programs which include clinical components, practicums, and/or internships, each student's effectiveness and suitability for the program will be given a broad-based evaluation by faculty and/or supervisors. Final decisions regarding continuance of studies will be predicated on a combination of factors as demonstrated clinical competence, personal interaction skills, judgment, and other relevant issues related to school leadership in addition to course grades.

Admission Requirements

In addition to the regular requirements for admission to graduate classes, the applicant for admission to graduate study in educational

leadership must have an instructional or educational specialist certificate. The applicant must obtain from the Department of Educational Leadership and Policy and have executed two reference forms. One recommendation must be completed by a chief school officer (district superintendent or intermediate unit executive director) in the school in which the candidate is currently employed or has been most recently employed. The second reference must be either from a principal or immediate supervisor. The recommendation of the chair of the educational administration program will be given following a review of the applicant's credentials. Admission to graduate study does not guarantee subsequent admission to candidacy for the master's degree.

In order to complete a program of study leading to the Master of Education degree, the student must apply for and be admitted to candidacy for the degree.

1. The student shall file with the Department of Educational Leadership and Policy an official application and a letter applying for admission to candidacy upon the completion of at least 6 and not more than 12 semester hour credits of graduate work at this institution. These hours should include at least one required course in administration, supervision, and curriculum.
2. The applicant shall have completed at least two years of successful teaching experience in elementary, middle, or secondary schools, or have had other professional experience in education.
3. The applicant shall have maintained a quality point average of not less than 3.0 (equivalent to an average of "B" with no more than one "C") in the graduate courses completed.
4. Recommendation for admission to candidacy for the master's degree will be determined by department faculty, following an interview by a committee of three faculty members. Judgments will involve consideration of the academic record, interview interaction, written exercise, and letters of recommendation.

The Department of Educational Leadership and Policy has two options for students pursuing a master's degree in school administration. The first option, recommended for students who plan to pursue a doctorate in educational leadership, involves writing a thesis as part of a three-credit course. The second option does not include the thesis. Students should schedule a conference with an advisor and carefully consider the two options in light of personal career plans.

School Administration (M.Ed.)

Minimum 30 semester hour credit required.

Administration and Supervision (9 credits)

ELP500 General School Administration
 ELP505 Computers and the School Administrator
 ELP592 General School Supervision

Curriculum and Instruction (6 credits)

ELP501 Curriculum for School Leaders K-12
 ELP530 Instructional Leader in the Middle School
 ELP508 Graduate Seminar in Instructional Strategies
 TCH511 Elementary School Curriculum
 ELP512 Curriculum in the Modern Secondary School

Research and Measurement (6 credits)

ELP580 Statistical Methods in Education
 ELP600 Research for School Administrators

Psychological Foundations (3 credits)**

PSY527 Studies in the Psychology of Adolescence
 TCH575 Child Development

Educational Foundations (3 credits)**

ELP503 Educational Foundations Contemporary Issues
 ELP569 Seminar: Diversity in Education

ELECTIVES**

ELP574 Finance and the School Principal
 ELP508 Graduate Seminar in Instructional Strategies
 ELP613 Educational Facilities and Plant Management

ELP615 School and Community Relations
 ELP620 Thesis

** All electives require adviser's approval.

Principal Certification Programs

Post-Master's Degree Curricula Leading to Certification of K-12 Principals

Applicants for admission to the post-master's degree certification program leading to certification as a K-12 principal shall file with the Dean of Graduate Admissions an application for admission to the respective program.

1. The applicant shall present a copy of the applicant's teaching certificate and evidence of three years of successful teaching experience in elementary, middle, or secondary schools.
2. Applicants who did not complete the Master of Education degree in educational leadership at Shippensburg University shall also provide official transcripts sent to the dean of Graduate Admissions by any institution at which the applicant has taken undergraduate or graduate work. Applicants must obtain from the Department of Educational Leadership and Policy and have executed two reference forms. These forms may be obtained by contacting the Department of Educational Leadership and Policy. One recommendation must be completed by a chief school officer (district superintendent or intermediate unit executive director) in the school in which the candidate is currently employed or has been most recently employed. The second reference must be either from a principal or immediate supervisor.
3. Recommendation for admission to the certification program will be determined by the faculty in the Department of Educational Leadership and Policy.

Policies for the Certification Program

1. A minimum of five years of professional school experience is required for the Administrative I certificate.

2. A B average must be maintained for the credits required for certification, with not more than one C grade included.
3. Courses or prescribed experiences may be repeated only with the approval of the student's adviser, the chair of the educational leadership and policy department, and the dean of the College of Education and Human Services.
4. Prescribed experiences for the certification program must be completed within a three-year period. Requirements for the combined master's degree and certification program must be completed within a nine-year period. These requirements will apply unless an extension is granted for extenuating circumstances by the educational leadership and policy department and the dean of the College of Education and Human Services.
5. Individuals pursuing principal certification who have not gone through a candidacy review for the master's degree with the Department of Educational Leadership and Policy at Shippensburg University may be required to complete an interview. If required, this review must be conducted after completion of six to nine hours of course work.
6. It is essential the student work closely with his or her adviser throughout the program. A student is required to complete 15 credit hours at Shippensburg University in order for the department to recommend him/her for certification.
7. The practicum experiences will be individually prescribed programs based upon PDE competencies of the program and the experiences of the candidate. Each candidate is encouraged to serve parts of the internship in at least two of the following three settings: urban, suburban, or rural. (Arrangements for the practicums should be made a year in advance through the Department of Educational Leadership and Policy.)
8. Pennsylvania Department of Education requires a passing score on Praxis: School Leaders Licensure Assessment.

Post-Master's Degree Certification Program for School Principals

A minimum of 15 semester hour credits is required as outlined below. A candidate who has completed a master's degree other than the Master of Education degree in educational leadership at Shippensburg University will not be required to complete a second master's degree; however, his or her program will need to include additional courses identified as necessary to attain the required competencies.

- ELP545 The Principalship
- ELP591 School Law
- ELP597 Practicum in Educational Administration
- ELP598 Advanced Practicum in Educational Administration

Electives

- ELP574 Finance and the School Principal
- ELP508 Graduate Seminar in Instructional Strategies
- ELP613 Educational Facilities and Plant Management
- ELP615 School and Community Relations

Superintendent's Letter of Eligibility Program

The Superintendent's Letter of Eligibility enables the holder of this certificate, when requested by a district's board of education, to be commissioned by the Commonwealth of Pennsylvania to serve in the following role positions within the schools of the Commonwealth of Pennsylvania: district superintendent, assistant district superintendent, intermediate unit executive director, intermediate unit assistant executive director.

The program of studies leading to this certification must address and meet the standards adopted by the Department of Education of the Commonwealth of Pennsylvania governing the issuance of this certificate. The program of studies for this certification at Shippensburg University completely satisfies all standards of the Commonwealth and provides the student completing this program at the university with the knowledge, competencies, and skills

needed to function in roles requiring this certification.

It is recognized individuals desiring to pursue this certification will, in all probability, have had considerable graduate course work in educational leadership and/or related fields and more than likely hold certification as a principal or supervisor. Such graduate course work and credit hours shall be considered and credited if applicable toward the requirements for this certification.

A program of studies will be designed, tailored, and individualized to meet the needs of each student seeking this certification. This includes out-of-state candidates whose requirements can be coordinated to meet the requirements of the state of residence. Past academic work and job experiences will be assessed as well as the skills and competencies mastered by the candidate prior to the construction of the candidate's individualized program.

Requirements for Admission to the Superintendent's Letter of Eligibility Certification Program

1. Applicants shall file an application with the dean of Graduate Admissions for admission to this certification.
2. Applicants who did not complete the Master of Education degree in educational leadership nor their certification programs at Shippensburg University shall provide an official transcript, sent to the dean of Graduate Admissions, by any institution at which the applicant has taken undergraduate or graduate work.
3. Applicants who have satisfied their master's degree and certification requirements at another college or university or earned their advanced degree outside the field of educational leadership at Shippensburg University may be required to successfully complete an oral review conducted by the faculty of the Department of Educational Leadership and Policy at Shippensburg University. This review will be conducted after the applicant has taken six (6) hours of graduate work in the Department of Educational Leadership and Policy.

4. Applicants entering the program of studies for the Letter of Eligibility Program shall be required to take a minimum of fifteen (15) credit hours with the educational leadership and policy department at Shippensburg University.
5. Applicants must obtain from the educational leadership and policy department and have executed two reference forms. One recommendation must be completed by a chief school officer (district superintendent or intermediate unit executive director) in the school in which the candidate is currently employed or has been most recently employed. The second reference must be given to another school administrator.
6. Applicants must possess a QPA of at least a 3.0 in all graduate work taken prior to application to this program.
7. Applicants must meet all standards governing admission to graduate education at Shippensburg University and those admission standards established by the Department of Educational Leadership and Policy for this program.
8. Final recommendation for admission to this certification program will be determined by the educational leadership and policy department of Shippensburg University.

Policies for Completing the Superintendent's Letter of Eligibility Program

1. A minimum of six years of professionally certificated services in the basic schools, three years of which shall have been in supervisory or administrative positions.
2. Maintain at least a B average in all course work, with not more than one C grade included in this average. Obtaining a second grade of C will cause the student to be dropped from this program.
3. Enroll for a minimum of six graduate credit hours per year.
4. Work closely with the student's adviser while enrolled in this program.
5. Each student, in addition to completing the course requirements specified on his or her individual program of studies, must demonstrate, through appropriate

practicum activities, field experiences, and a written/oral competency exam (exit interview), they have acquired the knowledge, skills, and competencies to render effective leadership in schools and educational institutions. The student's leadership, scholarship, and interpersonal skills shall be monitored most carefully throughout his/her program of studies and during his/her practicum and field experiences.

6. Satisfy all final evaluation policies and procedures established by the Department of Educational Leadership and Policy for students in the Letter of Eligibility program.

Student Advisement of the Superintendent's Letter of Eligibility Program

1. Applicants for the Letter of Eligibility shall be assigned a faculty adviser by the chair of the Department of Educational Leadership and Policy.
2. It shall be the responsibility of the faculty adviser to promptly meet with the applicant and review the applicant's academic records, degrees, and certification held along with past and present professional experiences. The faculty adviser, after consulting with the applicant, shall construct an individualized program of study for each applicant designed to meet the professional needs of the applicant as well as satisfying the requirements for certification set forth by the Department of Education of the Commonwealth of Pennsylvania and the Department of Educational Leadership and Policy of Shippensburg University.
3. Faculty adviser shall apprise the applicant of all policies, regulations, and procedures relating to the Letter of Eligibility Program and take the necessary steps to see the applicant fully understands such.
4. It shall be the joint responsibility of both the student and the adviser to consult with one another on a continuous basis during the time the student is enrolled in his/her program of studies.
5. The student should seek the advice and counsel of his/her faculty adviser when

the need arises. The faculty adviser is the contact person for any questions or concerns the student may have relating to his/her graduate program at Shippensburg University and through the adviser to the educational leadership and policy department if such becomes necessary.

6. The faculty adviser shall be a member of the oral review panel at the completion of the program.
7. The faculty adviser shall continually review his/her advisee's progress, academic work, and general overall standing and report any concerns to both the student and the educational leadership and policy department.
8. The faculty advisor shall be responsible for conducting a final exit review to ascertain the student has met all the requirements of the graduate school, the Department of Educational Leadership and Policy, and the standards for certification established by the Department of Education of the Commonwealth of Pennsylvania prior to recommending this student for certification to the educational leadership and policy department.
9. The faculty of the Department of Educational Leadership and Policy shall review all students' academic records prior to recommending a student to the Department of Education of the Commonwealth of Pennsylvania for the Superintendent's Certification.

Program of Studies for the Superintendent's Letter of Eligibility Program

A minimum of 70 graduate credit hours shall be required prior to the endorsement of the student by the Department of Educational Leadership and Policy for this certification. Of these 70 graduate credit hours, a minimum of 15 graduate credits must be earned at Shippensburg University.

An individualized program of studies shall be constructed for each student that addresses the standards for this certification as set forth by the Commonwealth of Pennsylvania and the academic standards of the Department of Educational Leadership and Policy, and the

School of Graduate Studies of Shippensburg University.

The program of studies shall consist of the following courses:

- I. Administration and Supervision
 - ELP500 General School Administration
 - ELP505 Computers and the School Administrator
 - ELP574 Finance and the School Principal
 - ELP591 School Law
 - ELP592 General School Supervision
 - ELP545 The Principalship
 - *ELP611 The Legal Aspects of Public School Administration
 - ELP612 Educational Leadership, Policy, and Governance
 - *ELP613 Educational Facilities and Plant Management
 - *ELP614 Business and Finance in Public Education
 - *ELP615 School and Community Relations
 - *ELP616 Negotiations and Personnel Management in Public Education
 - ELP619 Leadership for Pupil Services
 - ELP597 Practicum in Educational Administration
 - ELP598 Advanced Practicum in Educational Administration
 - ELP601 Practicum in Central Office Administration
 - ELP602 Practicum in Central Office Administration 4 crs.
 - ELP603 Practicum in Central Office Administration 5 crs.
 - ELP604 Practicum in Central Office Administration 6 crs.
- II. Curriculum and Instruction
 - ELP501 Curriculum for School Leaders K-12
 - ELP530 Instructional Leader in the Middle School
 - *ELP618 Curriculum Theory and Development
 - ELP512 Curriculum in the Modern Secondary School
 - ELP508 Graduate Seminar in Instructional Strategies
 - TCH511 Elementary School Curriculum
- III. Research and Measurements
 - ELP580 Statistical Methods in Education
 - ELP600 Research for School Administrators
- IV. Psychological Foundations

PSY500 Advanced Research Design and Statistics

PSY512 Theories of Learning
 PSY519 Life Span Psychology
 PSY527 Studies in the Psychology of Adolescence

TCH575 Child Development

V. Educational Foundations
 ELP503 Educational Foundations-Contemporary Issues
 ELP569 Seminar: Diversity in Education

** Required courses for the Superintendent's Letter of Eligibility.*

Supervisory Certification Programs

Post-master's degree programs leading to the Supervisory Certificate issued by the Pennsylvania Department of Education are offered in the following fields:

- Communication/English
- Counseling
- Early Childhood Education
- Elementary Education
- Environmental Education
- Foreign Languages
- Mathematics
- Pupil Services
- Reading
- Science
- Social Studies
- Special Education

Requirements vary according to specialty area, with a minimum of 21 semester hour credits required. All work must be completed within a five-year period. To be recommended for the supervisory certificate, candidates must obtain a minimum quality point average equivalent to a grade of B with no more than one C grade. A second C grade will cause the student to be dropped from this program.

Requirements for Admission to the Supervisory Program

1. An earned master's degree and/or at least 15 graduate credit hours in subject field or educational specialist area.
2. Obtain and execute two reference forms from the educational leadership and policy department. One recommendation must be completed by a chief school officer (district superintendent or

intermediate unit executive director) in the school in which the candidate is currently employed or has been most recently employed. The second reference must be either from a principal or immediate supervisor.

3. Approval by the School of Graduate Studies on the recommendation of the chair of the Department of Educational Leadership and Policy. The admission letter will outline each student's program, including any additional requirements needed.

Supervisory I Certificate Requirements

The candidate shall:

1. Be required to take six to nine graduate credit hours in the field of supervision in the Department of Educational Leadership and Policy to qualify for a practicum experience. (A minimum of 15 credit hours is required at Shippensburg University for the student to be recommended for certification.)
2. Have completed the appropriate curriculum outlined in the letter of admission.
3. Hold and present a copy of an Instructional II or Educational Specialist II certificate in the subject area in which the supervisory certificate is desired.
4. Have completed a recent graduate research course in the appropriate field or show evidence of having completed comparable applied research in the field.
5. Have completed five years of successful professional experience in the supervisory area desired prior to being recommended for certification.
6. Pennsylvania Department of Education requires a passing score on PRAXIS: Educational Leadership, Administration and Supervision.

CURRICULA LEADING TO SUPERVISORY I CERTIFICATION

Each candidate, in addition to completing the course requirements specified for the specialty area, must demonstrate through appropriate practicum activities the identified competencies have been attained.

Counseling/Pupil Services

Applicants for admission to the graduate program for counselor supervisors must hold a

valid elementary or secondary school guidance counselor certificate, or present evidence of having had at least three years of counseling experience in the public schools, and be recommended as having potential as a supervisor of school counseling services. Applicants who have not completed appropriate supervised practicum courses must do so before admission is granted.

To be recommended for certification as a supervisor of school counseling services, a candidate must complete the approved program outlined below and present evidence of having had at least five years of full-time experience as a counselor in the public schools.

CNS505 Organization and Administration of School Counseling Services
CNS512 Group Counseling Leadership Skills
CNS581 Counselor Supervision
ELP500 General School Administration
ELP591 School Law
ELP592 General School Supervision
ELP597 Practicum in Educational Administration
ELP501 Curriculum for School Leaders K-12
ELP508 Graduate Seminar in Instructional Strategies or
ELP505 Computers and the School Administrator or
ELP574 Finance and the School Principal
ELP619 Leadership for Pupil Services
Communication/English, Early Childhood Education, Elementary Education, Environmental Education, Foreign Languages, Mathematics, Pupil Services, Reading, Science, Social Studies, and Special Education
ELP501 Curriculum for School Leaders K-12
ELP591 School Law
ELP500 General School Administration
ELP592 General School Supervision
ELP597 Practicum in Educational Administration
TCH511 Elementary School Curriculum
ELP508 Graduate Seminar in Instructional Strategies or
ELP505 Computers and the School Administrator or

ELP574 Finance and the School Principal

Thomas L. Kruse, Ph.D., Ohio State
University, 1973. Research, Group Work,
Aging, Mental Health

Social Work and Gerontology Department

Shippensburg University

Deborah F. Jacobs, Shippensburg University
Department Chairperson, Graduate Program
Co-Coordinator, Ph.D., Brandeis
University, 1987. Policy, Macro Practice,
Mental Health, Program Evaluation

Dara P. Bergel, ABD, University of Maryland.
MSW, University of Pittsburgh, 1999.
Aging, Health Care, Mental Health,
Research

Jennifer Clements, Ph.D., University of
Maryland, 2006. Group Work, GLBT
Youth, Macro Practice, Child Welfare

Elizabeth A. Fisher, Ph.D. University of
Maryland, 2006. Community Development,
Research, Macro Practice, Transformative
Leadership

Robert L. Hewitt, Ph.D., University of
Pittsburgh, 1986. Diversity, Mental Health,
Juvenile Justice, Field Education

Michael J. Lyman, Field Coordinator. Ph.D.,
University of Utah, 2004. Micro Practice,
Families, Field Education. Distance
Education Instruction

Millersville University

Kathryn A. Gregoire, Department Chairperson.
Graduate Program Co-Coordinator. Ph.D.,
University of Maryland, 1988. Child
Welfare, Direct Practice, Addiction,
Emergency Mental Health

Richard H. Fulmer, Field Coordinator. Ph.D.,
Bryn Mawr, 1987. Law, Policy,
Corrections, Field Instruction

Ann L. Gantt, ABD, University of Maryland.
MSW, Temple University, 1990. Research,
African American Family, Spirituality,
Micro Practice

Heather L. Girvin, Ph.D., Bryn Mawr, 2002.
Research, Micro Practice, Child Welfare,
Family

Carol A. Heintzelman, Ph.D., Catholic
University of American, 1980. Women's
Issues, Domestic Violence, Health Care,
Research

The Program

Collaboration

Millersville and Shippensburg universities
are jointly offering a Master of Social Work
(M.S.W.) degree program. An M.S.W. permits
graduates to work in a variety of human
service programs and agencies in an advanced
clinical and/or administrative capacity. The
flexibility of the social work degree provides
graduates with many options as they pursue
their careers in helping fields.

Mission

The mission of the MU-SU M.S.W.
program is to provide accessible social work
graduate education in the south central region
of Pennsylvania in order to prepare students
for advanced generalist practice and to provide
professional leadership and contribute to the
development and dissemination of social work
practice knowledge.

Program Goals

The M.S.W. program seeks to:

1. Prepare graduate students for advanced
generalist social work practice serving
primarily rural populations in the region.
2. Provide curricula and co-curricular
opportunities for students enabling them to
integrate the knowledge, values, and skills
required for competent practice.
3. Provide leadership and service to the
regional social service community and the
social work profession.
4. Foster commitment to professional
development and the creation and
dissemination of knowledge.

Program Structure

The program is designed both for students
who have no previous social work education
and for those who want to build upon their
baccalaureate social work education. Students
will be admitted full- or part-time. Courses are
offered evenings with some Saturday classes

during the summer. State-of-the-art technology will permit students to acquire social work knowledge, skills, and values through multiple educational methods including teleconferencing and web-based activities. Students will take all courses on the campus where they are enrolled, while benefiting from the quality faculty and resources of both universities.

Admissions Classifications

Students may apply for regular standing admission or for advanced standing admission. Regular standing admission is for students who completed a baccalaureate degree with a major from other than a CSWE-accredited social work program and for students who did graduate from a CSWE-accredited social work program within the past 8 years but did not meet the QPA requirements for advanced standing. Students may apply for advanced standing admission if they graduated from a CSWE-accredited social work program within the past 8 years and do meet the QPA requirements as described in the admission guidelines.

Admission Guidelines

Campus

Candidates may choose to apply through either Millersville or Shippensburg University. If all seats are full at one campus, successful applicants will be given the option to enroll through the other campus, if seats are available. Applicants desiring admission to a specific campus may also be placed on a waiting list if all seats are full.

QPA

Applicants for regular standing admission must have a minimum cumulative quality point average of 2.8 on a 4.0 scale from a regionally accredited undergraduate institution. In exceptional cases, applicants who lack the required quality point average but whose other qualifications are outstanding may be admitted on a probational basis. Applicants admitted on probation must earn a 3.0 quality point average by the end of the first 12 credits.

Applicants for advanced standing admission must have earned a baccalaureate degree in the last eight years from a CSWE-accredited social work program with an overall QPA of 3.0 and a major QPA of 3.25 or higher on a 4.0 scale.

Exemption from Foundation (First-Year) Courses

Students who graduated with a baccalaureate degree from a CSWE-accredited social work program who are not eligible for advanced standing may be eligible for exemptions from first-year foundation courses other than practice and field instruction in which they have earned a grade of B or higher within the past 8 years. Exemptions will reduce the total number of credits a student must earn to graduate. The Admissions Committee will send a letter notifying the applicant of the exemptions.

Waivers

Students may apply for waivers from courses when they have already demonstrated proficiency in the course content at a graduate level with a grade of a B or higher. When requesting consideration for a waiver, a student must submit a Request for Waiver form and course syllabi to the course instructor. A waiver will not reduce the number of required credits for graduation but will allow a student to take a more advanced course or an elective course.

Entrance Examination

All students must take either the Miller Analogies Test (MAT) or the General Graduate Record Exam (GRE) within the past five years as part of the admissions process.

Personal Qualifications

Applicants must evidence a combination of professional and personal experiences, qualities, and values that are considered essential for the practice of social work. A current resume is required. Three professional references are required with a minimum of one from faculty and one from a current or recent agency employer or supervisor. Applicants will complete a written personal statement. Forms are available through the Graduate Admissions Office. The program may request a personal

interview or additional information about an applicant when necessary to make a fully informed admissions decision.

Persons who have criminal records are not eligible to work in many human service fields. Applicants with criminal records should contact the M.S.W. program director for additional information.

Pre-requisites

Students must demonstrate that they have successfully completed coursework in each of the following areas: Human Biology, Economics, Government/Political Science, Psychology, Sociology/Anthropology, and Statistics. Applicants can be admitted with up to two course deficiencies. These course deficiencies must be completed by the end of the foundation year (30 credits) of the M.S.W. program.

Transfers

Students may receive up to nine (9) credit hours earned at other regionally accredited institutions prior to admission. Graduate credits earned more than five years prior to admission do not qualify for transfer. Students may only transfer credits provided they are in good standing in those schools. Courses must be listed on an official transcript with a B or higher. Condensed one-week graduate courses do not qualify for transfer.

With advance permission of MU-SU M.S.W. program director and the faculty advisor and as part of a planned program, a student may transfer credits from other graduate programs at MU or SU.

Experience

The program does not grant academic credit for life or work experience.

Evaluation of Students

A formal Admission to Candidacy process takes place after a minimum of 12 credits have been completed. MU-SU MSW faculty members evaluate students to determine if they have the potential for completing the requirements of the social work program.

Qualifications are based on academic performance in line with university standards and demonstrated ethical behavior, values, and commitment to social work as a career. The social work faculty has the right to dismiss from the program at any time students found not qualified for social work practice.

Degree Requirements

Students with regular standing admission must complete 60 credits of graduate study including: 42 credit hours of required coursework, 12 credit hours of field practicum, and 6 credit hours of electives. B.S.W. graduates with regular admission status may receive exemption for some coursework, as per admission guidelines.

Students with advanced standing admission must complete 36 credits of graduate study including: 21 credit hours of required coursework including a summer "bridge" course, 6 credit hours of field practicum, and 9 hours of electives.

Due to the cohort nature of this program, all courses must be taken in sequence. The 60 credit program can be completed in two years full time (four courses a semester) or four years part time (two courses a semester). The 36 credit program can be completed in one year full time or two years part time. Both programs are year round.

Accreditation

The joint M.S.W. program was designed according to the Council on Social Work Education (CSWE) accreditation guidelines. The application for pre-candidacy eligibility has been made, and final approval of accreditation is anticipated in 2008-2009. It will be retroactive to the program as of fall 2006.

Courses

Students enroll in either the regular (60 s.h.) or the advanced (36 s.h.) program. Students in the regular program take both the required foundation year and the concentration year courses including two elective courses.

Students in the advanced program take the required advanced bridge course, the concentration year courses, and three elective courses.

Foundation Year Courses

SWK 501 Principles and Philosophies of Social Work
SWK 505 Social Work Practice with Diverse Populations
SWK 510 Human Behavior in the Social Environment I
SWK 511 Human Behavior in the Social Environment II
SWK 515 Social Welfare Policy
SWK 520 Micro/Mezzo Social Work Practice
SWK 521 Macro Social Work Practice
SWK 525 Research Methods
SWK 530 Field Practicum I
SWK 531 Field Practicum II

Advanced Standing (Bridge Course) – 3 credits

SWK 601 Integrative Seminar

Concentration Year Courses

Advanced Courses – all students including Advanced Standing – 24 credits

SWK 610 Advanced Human Behavior in the Social Environment
SWK 612 Social Work and the Law
SWK 615 Advanced Social Welfare Policy
SWK 625 Advanced Research Methods
SWK 620 Advanced Micro/Mezzo Social Work Practice
SWK 621 Advanced Macro Social Practice
SWK 630 Advanced Field Practicum I
SWK 631 Advanced Field Practicum II

Electives - 6-9 credits required

GRN 510 Foundations of Applied Gerontology I: Social Context of Aging
GRN 610 Social and Public Policy in Aging

Teacher Education Department

Elizabeth J. Vaughan, Ph.D., *Chair* (477-1688)

Julie Q. Bao, Ph.D.

David F. Bateman, Ph.D.

Lynn Baynum, Ph.D.

Kimberly Bright, Ph.D.

Janet Bufalino, Ed.D.

Kent Chrisman, Ed.D.

Donna Couchenour, Ph.D.

Susan Foltz, Ph.D.

Linda A. Hoover, Ph.D.

Tracey Knerr, M.Ed.

Andrea Malmont, Ed.D.

Eucabeth Odhiambo, Ed.D.

Rebecca W. Pettit, Ph.D.

Christina Royce, Ed.D.

Vonnie Ryland, Ph.D.

Christopher Schwilk, M.S.

Cheryl Slattery, Ed.D.

Gerald E. Stafford, Ph.D.

Gwendolyn Swingler, M.Ed.

Yvonne D. Taylor, Ed.D.

Cheryl H. Zaccagnini, Ed.D.

James Zullinger, M.Ed.

Programs Offered

The Department of Teacher Education offers graduate programs leading to the Master of Education degree in the following areas: curriculum and instruction, reading, and special education. Curriculum and Instruction includes the following cluster choices: early childhood education, elementary education, middle level education as well as biology, English, geography/early science, history and mathematics secondary education. The early childhood cluster includes three options: M.Ed. only; M.Ed. with state certification for those who hold elementary, middle level, or special education certification; and M.Ed. with state certification for those who have no previous teaching certification or a certificate other than mentioned in option 2. The M.Ed. in reading includes certification as a reading specialist. The department offers graduate programs in special education with two options: M.Ed. with comprehensive certification in mentally and/or physically handicapped (M/PH); and M.Ed. without certification with an emphasis in

learning disabilities (LD), mental retardation (MR), or behavior disorders (BD).

Admission to Teacher Education Programs

All applications for admission to our Teacher Education programs must begin with application to the School of Graduate Studies. The Teacher Education department will supply the applicant with required program application forms after notification the individual has met the requirements for the graduate school.

Applicants to the Teacher Education programs must provide the department with review materials by the specified date to ensure consideration. If the applicant is interested in starting in the spring semester all materials must be received by September 1. If the applicant is interested in starting in the summer semester(s) all materials must be received by February 1. If applicants are interested in starting in the Fall semester all materials must be received by June 1. Students must be interviewed and admitted to the program before they will be allowed to enroll in courses.

1. Applicants must have a baccalaureate degree from an accredited college or university.
2. Applicants must present an official transcript showing at least a 2.75 cumulative quality point average for undergraduate studies. Those who do not qualify will be required to take either the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT) prior to admission. Applicants for certification programs must have a 3.0 cumulative quality point average for undergraduate students.
3. Applicants to the comprehensive certification program in special education and the reading specialist program are expected to have prior certification in either elementary or secondary education. Candidates lacking certification are not eligible for admission to any program other than early childhood.

4. It is strongly recommended applicants possess relevant experience prior to admission to graduate study.
5. With the application to the graduate school, the applicant will receive a packet of materials containing reference forms, a personal data form, and a request for a résumé.
6. Submit all the above materials to the graduate office on forms provided by the department. *Only the forms provided by the department will be accepted.* When all documents have been returned, program faculty will invite the applicant to the next scheduled interview session.
7. Appear for an interview with one of the faculty.
8. Following the interview each applicant will be assessed by the program with regard to relevant life/work/academic experiences as well as overall impression from the on-campus interview and applicant's references.

Program Requirements

In order to be approved for graduation, each student is required to have a planning sheet on file in the graduate office, approved by the assigned academic adviser.

The courses for a student who enrolls in a certification program along with a master's degree may include undergraduate course work. There may be from two to four semesters of these courses which will be identified on an individual basis. Candidates for initial certification must demonstrate competency in student teaching.

Elementary Education Supervisor

For information concerning the post-master's degree program leading to Pennsylvania certification as an Elementary Education Supervisor, refer to the educational leadership and policy department.

Curriculum and Instruction (M.Ed.)

The curriculum and instruction master's degree program is intended for individuals who possess a teaching certificate. Only the early childhood education cluster has options that do not require students to hold certification. The degree is designed to enhance teaching and learning through exploration of theoretical principles and practical applications to educational settings. The 36-credit M.Ed. program consists of a core of 18 credits in four areas that contribute to best practice: curriculum and assessment (3 credits), effective teaching and leadership (6 credits), the learner (6 credits), and research (6 credits).

In addition to the core courses, students will select one of the following clusters of 18 credits:

- Early Childhood Education
- Elementary Education
- Middle Level Education
- Secondary Biology Education
- Secondary English Education
- Secondary Geography/Earth Science Education
- Secondary History Education
- Secondary Mathematics Education

Students in the early childhood, elementary and middle level clusters are all required to take TCH609 Internship and Action Research Seminar. This course serves as the capstone experience, synthesizing theory and practice as participants engage in studying and subsequently conducting the action research process.

Program Core (18 credits)

Curriculum and Assessment (3 credits)

- ECH577 Early Childhood Curriculum and Assessment
- TCH511 Elementary School Curriculum and Assessment
- TCH524 Middle School Curriculum and Assessment
- ELP512 Curriculum for the Modern Secondary School

Effective Teaching and Leadership (6 credits)

Effective Teaching (3 credits)

TCH501 Strategies for Effective Teaching
TCH502 Strategies for Critical Thinking and Problem Solving

Leadership (3 credits)

ECH563 Supervision and Administration in Early Childhood Education
ELP592 General School Supervision

The Learner (6 credits)

Development (3 credits)

TCH575 Advanced Child Development
PSY527 Psychology of Adolescence

Individual Differences (3 credits)

ECH510 Including Young Children with Special Needs in Early Childhood Education

EEC411 Introduction to Exceptionality
ELP569 Seminar: Diversity in Education
TCH475 Inclusive Education: A Practical Approach for Educators

Focus on Research (3 credits)

TCH600 Elements of Research
BIO600 Elements of Research
ENG600 Elements of Research
GEO546 Geoenvironmental Research I
HIS600 Computerized Historical Research Methods
MAT600 Elements of Research
(*TCH609 does not meet this core requirement*)

Cluster Requirement (18 credits)

Student will choose the program cluster most closely related to their personal/educational needs.

Early Childhood Cluster

Option A: Master of Education Degree

Early Childhood Education Specialization (12 crs.)

- ECH520 Social and Emotional Development in Early Childhood
- ECH530 Cognitive and Language Development in Early Childhood
- ECH540 Families and Early Childhood Education
- TCH609 Internship and Action Research Seminar

Electives with Advisement (6 credits)

ECH410 Physical, Motor and Sensory Development in Early Childhood
ECH460 Family, School and Community Partnerships
ECH461 Assessment in Early Childhood Education
RDG528 Foundations of Literacy Development
TCH445 Strategies for Effective Classroom Management
TCH 440 Gender Equity in Education
TCH 570 Perceptual-Motor Development
TCH 490 Special Topics
TCH 612 Thesis I and
TCH 613 Thesis II

Option B: Master of Education and Certification for students who have certification in Elementary, Middle School, or Special Education.

Meet all requirements for Option A (36 credits – includes core courses) Must select RDG528 and EEC411 unless similar courses are on transcript

Early Childhood Block (12 credits)

ECH340 Preschool and Kindergarten Curriculum
ECH 460 Family, School and Community Partnerships
ECH 470 Language Development, Literacy and Play in Early Childhood Education
ECH 462 Practicum in Early Childhood Education

Option C: Master of Education and Certification for students without any existing certification for students who wish certification in Early Childhood Education, but do not possess certification in Early Childhood, Elementary, Middle School, or Special Education.

Meet all requirements for Options A and B.

Additional courses:

ECH240 Primary Curriculum
ECH360 Assessment in Early Childhood and Early Intervention
EDU495 Student Teaching (15 credits)

Elementary Education Cluster

Elementary Content Area (9 credits)

RDG528 Foundations of Literacy Development
TCH542 Modern Elementary School Mathematics
TCH546 Teaching Science in the Elementary School
TCH560 Making Social Studies Dynamic
Elementary Electives (6 credits)
TCH440 Gender Equity in Education
TCH445 Strategies for Effective Classroom Management
TCH490 Selected Topics in Teacher Education
TCH505 Technology for Today's Educator
Required Internship
TCH609 Internship and Action Research Seminar

Middle School Cluster

Middle School Content Area (9 credits)

TCH423 Integrating Literature in Middle Grades
TCH445 Strategies for Effective Classroom Management
TCH505 Technology for Today's Educator

Middle School Electives (6 credits)

Six credits from any content area; i.e., biology, English, geography/earth science, history, mathematics.

Required Internship (3 credits)

TCH 609 Internship and Action Research Seminar

Secondary Biology Cluster

Eighteen credits in biology from 400 and 500 level courses including those courses offered by the Marine Science Consortium at Wallops Island. For further information, contact Dr. Gregory Paulson, Department of Biology at 477-1401 or gspaul@ship.edu.

With approval of the biology advisor, a maximum of 6 credits may be selected from geography, earth science, physics, and chemistry.

Students may structure their course work to meet individual sub-disciplinary interests. At least 12 credits must be taken in the Biology Department.

Secondary English Cluster

Eighteen credits in the content area of English.

Students may choose up to 6 credits from the following 400-level courses:

- ENG420 Studies in Writing
- ENG426 Adolescent Literature
- ENG428 Advanced Creative Writing
- ENG438 Technical/Professional Writing II
- ENG464 Seminar in a Major Author
- ENG465 Creative Nonfiction
- ENG466 Seminar in Literary Theory
- ENG467 Seminar in Drama
- ENG468 Seminar in Fiction
- ENG469 Seminar in Poetry
- ENG490 Seminar in Selected Topics

Students must take at least 12 500-level credits.

Literary Genre

- ENG505 Graduate Seminar in Poetry
- ENG506 Graduate Seminar in Fiction
- ENG507 Graduate Seminar in Drama/Film

Literary Traditions

- ENG515 Seminar in American Literature
- ENG516 Seminar in British Literature
- ENG517 Seminar in World Literature
- ENG518 Seminar in Multicultural Literature

Approaches to Writing and Interpretation

- ENG511 Seminar in Cultural Studies
- ENG512 Seminar in Composition and Rhetoric
- ENG525 Seminar in Teaching English/Language Arts

Secondary Geography/Earth Science Cluster

Eighteen credits in geography/earth science from 400 and 500 level courses.

Students must take one course from each of the following categories (15 credits)

- GEO524 The Geologic Environment or
- GEO561 Geomorphology
- GEO522 Geoenvironmental Hydrology or
- GEO446 Water Resource Management
- GEO526 The Atmospheric Environment or
- GEO536 Problems of the Atmospheric Environment

GEO444 Environmental Land Use Planning or

GEO542 Land Use Regulations or
GEO528 Geography of Economic and Environmental Systems

GEO420 Geographic Information Systems or
GEO530 Mapping Sciences

Three credits may be taken with advisement from geography/earth science, biology, history, political science, chemistry or international studies.

Secondary History Cluster

Eighteen credits in history from 400 and 500 level courses.

United States and North American History (3 credits)

- HIS402 Revolutionary America
- HIS419 Advanced Topics in Public History
- HIS428 Issues in the Gilded Age and Progressive Era
- HIS494 Introduction to Archives
- HIS515 Seminar in 20th Century US Social History
- HIS516 Seminar in African American History
- HIS519 Seminar in International Relations
- HIS525 Seminar in US Regional History
- HIS526 Seminar in the Civil War Era
- HIS513 Seminar in US Women's History

World History (3 credits)

- HIS410 The Islamic World
- HIS421 Issues in 19th Century Europe
- HIS423 Issues in 20th Century Europe
- HIS534 Seminar in Modern German History
- HIS535 Seminar in Medieval Studies
- HIS550 Seminar in South Asia History
- HIS555 Seminar in Russian, Soviet, and Post-Soviet History
- HIS558 Seminar in East Asia and the Modern World
- HIS562 Seminar in African History

Comparative History (3 credits) - preferably in student's final year

- HIS407 Women in Comparative Perspective
- HIS512 Seminar in Comparative Labor History

HIS514 Population in History
 HIS540 Comparative Latin American
 History
 HIS545 History, Theory and Pre-Industrial
 Societies
 HIS510 Seminar in the Social History of
 Education

History Electives (9 credits)

Any of the above courses or
 HIS490 Selected Topics in History (1-3
 crs.)
 HIS499 Historiography
 HIS594 Selected Topics in History (1-3
 crs.)
 HIS598 Independent Study (1-3 crs.)
 HIS599 Readings in History

Secondary Mathematics Cluster

Eighteen credits in the content area of
 mathematics.

*Students may choose up to 6 credits from the
 following 400-level courses:*

MAT400 History of Mathematics
 MAT410 Numerical Analysis
 MAT413 Applied Statistics II
 MAT420 Abstract Algebra
 MAT428 Linear Algebra
 MAT429 Applications of Linear Algebra
 MAT430 Complex Variables
 MAT441 Advanced Calculus I
 MAT442 Advanced Calculus II
 MAT444 Modern Geometry
 MAT450 Combinatorics
 MAT456 Deterministic Methods of
 Operations Research
 MAT476 Probability
 MAT486 Mathematical Statistics
 MAT490 Selected Topics

*Students must take at least 12 500-level
 credits:*

MAT516 Mathematical Modeling
 MAT527 Number Theory Discovery
 MAT528 Algebra for Teachers of
 Mathematics
 MAT534 Geometrical Concepts
 MAT538 Topics in Discrete Mathematics
 MAT543 Concepts of Calculus
 MAT551 Technology in the Teaching and
 Learning of Mathematics

MAT572 Probability for Middle and High
 School Teachers
 MAT573 Statistics for Middle and High
 School Teachers
 MAT594 Selected Topics in Mathematics

Note: A maximum of 12 credits of 400 level
 courses may be applied to requirements for the
 curriculum and instruction master's degree.
 This limit includes both core and cluster
 courses.

Early Childhood Supervisor

For information concerning the post-
 master's degree program leading to
 Pennsylvania certification as an Early
 Childhood Education Supervisor, refer to the
 Department of Educational Leadership and
 Policy.

Special Education (M.Ed.)

A graduate program which leads to a Master
 of Education degree in special education is
 offered. Applicants are required to present
 evidence of previous successful experience in
 working with children and display a
 commitment to teaching children with
 disabilities through an interview.

Those candidates who apply for the teacher
 certification program in special education and
 hold no educational certification in another
 field must complete additional requirements
 that are determined after a review of the
 official transcripts of the student. A maximum
 of 9 credits in special education may be
 accepted when non-matriculated students make
 application to the special education program.

Each student is required to have a program
 planning sheet approved by their adviser on
 file. A candidate is required to obtain a
 minimum grade of B in each course. Courses
 with a grade less than B must be repeated. A
 grade of F in any course will automatically
 dismiss that student from the program.

The Master of Education degree
 programs are designed to serve these
 groups:

1. Those who wish to add comprehensive
 certification in special education to the

- teaching certificate they presently hold in another field.
2. Certified Special Education teachers who wish to pursue advanced study in one area of their field (i.e., learning disabilities, mental retardation, or behavior disorders).
 3. Elementary and secondary classroom teachers who are interested in increasing their professional competencies in working with children with special needs in the general education classroom.

There are four options in the Master of Education special education program: with Comprehensive Certification in Learning Disabilities in Mental Retardation in Behavior Disorders

Note: While it is possible to complete the program as a part-time student, the practicums will require extensive work in schools during the school year.

The program of study appropriate for the individual's professional goals will be developed from the following course organizations:

Master of Education degree – Comprehensive Certification *

Core Courses (18 credits)

- TCH475 Inclusive Education: A Practical Approach for Educators
- EEC513 Medical and Psychological Aspects of Disability
- EEC544 Formal/Informal Assessment of Individuals with Exceptionalities
- EEC545 Proactive Approaches for Classroom and Behavior Management
- EEC547 Instructional Content and Practices for Special Education
- TCH600 Elements of Research

Specialty Knowledge and Skills (18 credits)

- EEC550 Foundations of Learning Disabilities
- EEC551 Programming and Instruction for Individuals with Learning Disabilities
- EEC560 Foundations of Mental Retardation/ Development Disabilities

- EEC561 Programming and Instruction for Individuals with Mental Retardation/Developmental Disabilities
- EEC570 Foundations of Behavior Disorders
- EEC571 Programming and Instruction for Individuals with Behavior Disorders
- Practicum and Seminar (6 credits)
- EEC590 Practicum I
- EEC591 Practicum II
- Total hours: Comprehensive Certification 42

* If the applicant does not hold an education certificate, a program of background courses as prescribed by the chair of the Department of Teacher Education must be completed. This program will include a 16-week student teaching experience.

Master of Education degree – Learning Disabilities **

Core Courses (18 credits)

- TCH475 Inclusive Education: A Practical Approach for Educators
- EEC513 Medical and Psychological Aspects of Disability
- EEC544 Formal/Informal Assessment of Individuals with Exceptionalities
- EEC545 Proactive Approaches for Classroom and Behavior Management
- EEC547 Instructional Content and Practices for Special Education
- TCH600 Elements of Research

Specialty Knowledge and Skills (6 credits)

- EEC550 Foundations of Learning Disabilities
- EEC551 Programming and Instruction for Individuals with Learning Disabilities

Practicum and Seminar (3 credits)

- EEC590 Practicum I

Electives (3-6 credits)

Total program hours for master's degree 33

** Program total is a minimum of 33 credits. Elective courses may be chosen with advisement.

Master of Education degree – Mental Retardation/Developmental Disabilities **

Core Courses (18 credits)
TCH475 Inclusive Education: A Practical Approach for Educators
EEC513 Medical and Psychological Aspects of Disability
EEC544 Formal/Informal Assessment of Individuals with Exceptionalities
EEC545 Proactive Approaches for Classroom and Behavior Management
EEC547 Instructional Content and Practices for Special Education
TCH600 Elements of Research
Specialty Knowledge and Skills (6 credits)
EEC560 Foundations of Mental Retardation/Development Disabilities
EEC561 Programming and Instruction for Individuals with Mental Retardation/Developmental Disabilities
Practicum and Seminar (3 credits)
EEC591 Practicum II 3 crs.
Electives (3-6 credits)
Total program hours for master's degree 33
** Program total is a minimum of 33 credits. Elective courses may be chosen with advisement.

Master of Education degree – Behavior Disorders **

Core Courses (18 credits)
TCH475 Inclusive Education: A Practical Approach for Educators
EEC513 Medical and Psychological Aspects of Disability
EEC544 Formal/Informal Assessment of Individuals with Exceptionalities
EEC545 Proactive Approaches for Classroom and Behavior Management
EEC547 Instructional Content and Practices for Special Education
TCH600 Elements of Research
Specialty Knowledge and Skills (6 credits)
EEC570 Foundations of Behavioral Disorders
EEC571 Programming and Instruction for Individuals with Behavioral Disorders
Practicum and Seminar (3 credits)
EEC590 Practicum I 3 crs.
Electives (3-6 credits)

Total program hours for master's degree 33
** Program total is a minimum of 33 credits. Elective courses may be chosen with advisement.

Special Education Supervisor

For information concerning the post-master's program leading to Pennsylvania certification as a Special Education Supervisor, refer to the educational leadership and policy department.

Reading (M.Ed.)

A graduate program leading to the Master of Education degree with specialization in reading is offered for fully certified elementary and secondary school teachers. After the successful completion of all program requirements, a teacher is certified as a K-12 Reading Specialist in the state of Pennsylvania.

Admission

Admission into the reading program is offered three times during the academic year: September 1 for students beginning study in the spring semester, February 1 for students beginning study in the summer, and June 1 for students beginning study in the fall. To become a candidate in the reading program, an application must be completed through the admissions office. The reading program admission packet includes the following: candidate application, three professional reference letters, and transcripts from all undergraduate and graduate course work (a 3.0 QPA is required on previous course work for admission). If the candidate is not presently teaching, the following additional information is required at the time of the interview; state police and child abuse clearances.

When an application is deemed complete by the admission office, the application packet will be forwarded to the reading program facilitator who assigns the candidate an advisor. The candidate will be sent a letter stating the name of their advisor and the process for setting up an interview. During the interview, the advisor will determine if

program background courses are met. Required for entrance into the program is successful completion of two courses at the undergraduate or graduate level - Teaching of Reading and Teaching of Language Arts. If the candidate is lacking one or both background courses, admission into the program will be delayed until the course requirements are met. If all requirements are met, the applicant is awarded foundational status. Following is a detailed description of the status categories.

Foundational Status

The first category for candidates is called foundational status. When a candidate is granted foundational status, he/she may enroll in the following courses in any sequence:

- TCH511 Elementary School Curriculum
- TCH600 Research - topic of proposal
MUST be literacy related
- TCH575 Advanced Child Development
- RDG413 Teaching Reading to English Language Learners
- RDG528 Foundations of Literacy Development
- RDG529 Reading and Reasoning Beyond the Primary Grades

Following successful completion of all foundational level courses with a minimum grade of B, candidates are to take the reading program qualifying exam. Following successful completion of all foundational status requirements, candidates are awarded practicum status.

Practicum Status

The second category for candidates is practicum status. Candidates who have been awarded practicum status are eligible to enroll in the following courses in the prescribed sequence:

1. RDG520 Tutoring Secondary Students
2. RDG532 Diagnosis and Assessment
3. RDG533 Advanced Diagnosis and Assessment and RDG533 Practicum in Reading (these two classes must be taken together)
4. RDG535 Seminar in Language, Literacy, and Reading

Courses must be completed with a minimum grade of B. Candidates are also required to reach the passing score on the Praxis exam for Reading Specialist as set by the Pennsylvania Department of Education. Following successful completion of all practicum status requirements, candidates are awarded program completion status.

Program Completion

When candidates have been granted program completion status, they are eligible to apply for certification and graduation through the Dean of Education and Human Services office.

For more information on the Reading Program: www.ship.edu/~read.

Reading Supervisor

For information concerning the post-master's degree program leading to Pennsylvania certification as a Reading Supervisor, refer to the educational leadership and policy department.

Reading Recovery

Reading Recovery is an early intervention program used in school districts for at-risk first grade students. The program helps to develop early reading/writing skills and to build successful literacy experiences. Shippensburg University is the State Site for Reading Recovery. The Pennsylvania Department of Education, Ohio State University, and the National Diffusion Network collaborated in developing and funding this State Site.

Post-Master's Degree

Teacher Leader Training

The teacher leader training program is an 18-credit hour post-master's program which includes the following required courses:

- Fall semester
RDG554 Practicum in Reading

RDG601 Language Development Theory
RDG605 Reading Recovery Teacher
Training I

Spring semester

RDG555 Practicum in Assessment
RDG602 Reading Thoughts and Processes
RDG606 Reading Recovery Teacher
Training II

Interested persons must submit an application (available from the College of Education and Human Services) and be accepted as a Teacher Leader participant. Participants must be sponsored by a school district or Intermediate Unit Consortium. Included with the training program and the required course work for two semesters, participants will be expected to complete extensive field work, work individually with four Reading Recovery children each day, demonstrate teaching in front of a one-way observation window with at least three of their own Reading Recovery children, lead a seminar of Reading Recovery teachers to learn the techniques of a Teacher Leader, perform arranged special collaborative activities designed to help the Teacher Leader candidate explore the full role of the Teacher Leader, and collect and maintain data on children in accordance with guidelines for evaluation. All course work must be taken during one academic year.

Specific information on the teacher leader program and the application process can be obtained by contacting Dr. Peggy Hockersmith, Site Coordinator for Reading Recovery and Associate Dean/Director of Field Services, College of Education and Human Services, at (717) 477-1373.

Post-Baccalaureate Degree

Teacher Training

The Reading Recovery teacher training program is a 6-credit graduate program which includes one 3-credit course in the fall semester and one 3-credit course in the spring semester.

These courses are taught through approved teacher training sites by Teacher Leaders in school-based sites. Interested individuals should contact the Office of the Dean of

Education at (717) 477-1373 for information on teacher training sites.

Post-Baccalaureate Degree

Teacher Training

The Reading Recovery teacher training program is a 6-credit graduate program which includes one 3-credit course in the fall semester and one 3-credit course in the spring semester.

These courses are taught through approved teacher training sites by Teacher Leaders in school-based sites. Interested individuals should contact the Office of the Dean of Education at (717) 477-1373 for information on teacher training sites.

Courses of Instruction

Course descriptions are organized in alphabetical order by subject. Information on courses can be found under appropriate headings in the following sequence:

ACC Accounting
ART Art
BIO Biology
MBA Business Administration
BIS Business Information Systems
CHM Chemistry
COM Communication/Journalism
CSC Computer Science
CNS Counseling
CRJ Criminal Justice
ECH Early Childhood Education
ESS Earth Science
ECO Economics
EDU Education
ELP Educational Leadership and Policy
ENG English
FIN Financial Administration
FRN French
GEO Geography
GRN Gerontology
HIS History
HCS Human Communication Studies
ISS Information Systems Studies
MGT Management
MKT Marketing
MAT Mathematics
MUS Music
PHL Philosophy
PHY Physics
PLS Political Science
PSY Psychology
RDG Reading
SWK Social Work
SOC Sociology
SPN Spanish
EEC Special Education
TCH Teacher Education

Dual Level (400) Courses

Courses with numbers from 400 to 499 are open to graduate and advanced undergraduate students. Graduate students enrolled in 400 level courses are expected to meet the customary standards appropriate to graduate-level studies. These standards are reflected in the specific requirements found in syllabi for each of the 400 level courses. A maximum of 12 semester hour credits of 400 level courses may be applied to the requirements of the master's degree.

Accounting (ACC)

ACC401 FINANCIAL ACCOUNTING AND REPORTING III (3 CRS.)

Third in a sequence of three courses involving an intensive study of accounting concepts, theories, and practices relative to external financial reporting. Topics considered include accounting for pensions and leases, financial reporting and changing prices, mergers, consolidated financial statements, foreign currency transactions, and translating foreign currency financial statements. Issues relating to full disclosure and the role of the Securities and Exchange Commission and professional accounting organizations in financial reporting are considered. Prerequisite: *ACC302* (C grade or better).

ACC404 AUDITING (3 CRS.)

Introduction to the standards and procedures employed by the professional accountant in performing audits. The objectives of an audit and the types of examinations necessary for rendering opinions on financial reports and for other specified purposes are considered. Prerequisite: *ACC311* (C grade or better).

ACC418 ACCOUNTING INFORMATION AND CONTROL SYSTEMS (3 CRS.)

Designed to provide the student with an understanding of the accounting function as a subsystem within the total management information system. Consideration is given to the source of data processed by the accounting

system and the form in which it is stored in order to support the planning, control, reporting, and evaluation activities of management. Emphasis is on the relationship of the information needs of management to the classification of data and the design of the accounting system. Prerequisite: *ACC312* (C grade or better).

Art (ART)

ART425 COMPUTER DESIGN IV (3 CRS.)

The fourth level course taught on the Macintosh computer. Students will learn the art of animation and multimedia production including sound and video editing and compositing. Using page composition and illustration/painting/digital photography techniques learned in Computer Design I, II, and III, students will learn how to compile text, paintings, and photographs into a composite multimedia program. Using paint and ink effects, information will be enhanced, with sound and video added to it. Elements and principles of design, working between software programs, the use of a color scanning device, video and still camera capturing devices, and CD authoring will be covered. Content includes techniques directed at creating visually strong multimedia productions. Prerequisite: *ART217*.

Biology (BIO)

BIO408 PRINCIPLES OF VIROLOGY (3 CRS.)

Covers morphology, replication cycles, and genetics of important bacterial, plant, and animal viruses as well as the use of viruses in biotechnology and gene therapy. Special emphasis will be given to viral pathogens of humans including the pathophysiology, transmission, treatment, and prevention of viral diseases. Newly emerging viral diseases and their impact on society will also be discussed. Graduate students will be expected to submit a 5-10 page term paper on a virology-related topic that is approved by the instructor. Prerequisites: Principles of Biology I and II, Microbiology, Genetics, Cell Biology. Pre- or

co-requisites: Immunology or Molecular Biology or permission of instructor.

BIO409 IMMUNOLOGY (3 CRS.)

Introduction to the field of immunology, including immunity, serology, immunochemistry, and immunobiology. Other topics include immunodeficiency diseases, tumor immunology, transplantation immunology, autoimmune diseases, and allergies. Prerequisites: Principles of Biology, Zoology, & Microbiology or permission of instructor.

BIO413 MARINE ICHTHYOLOGY (3 CRS.)

Study of the internal and external structure of fishes, their systematic and ecological relationships, and their distribution in time and space. *Taught only at WIMSC during summers.*

BIO417 HERPETOLOGY (3 CRS.)

Study of amphibians and reptiles including classification, evolution, functional morphology, ecology, and husbandry. Laboratory work includes anatomical study, identification, and field trips. *(Two periods lecture and one period lab/week.)* Prerequisites: Principles of Biology and Zoology or permission of instructor.

BIO418 MOLECULAR BIOLOGY (3 CRS.)

Examines the structure and expression of prokaryotic and eukaryotic genes. Topics include experimental techniques used to clone, express, and analyze DNA sequences; chromosome and gene structure; mechanisms of DNA replication and repair; mechanisms of transcription and translation; the regulation of transcription; RNA processing and post-transcriptional regulation; gene regulation in development; and molecular mechanisms of mutagenesis and cancer. Classes include discussion of current literature and the use of on-line resources for analysis of DNA sequences. Prerequisites: Principles of Biology I and II, Microbiology, Genetics, Cell Biology or Biochemistry, or permission of instructor.

BIO423 PLANT PATHOLOGY (3 CRS.)

Basic course in plant pathology considers the major general groups of plant diseases together with specific representative diseases for each group and methods for their control. Prerequisites: Principles of Biology and Botany.

BIO425 BIOTA OF FLORIDA (2 CRS.)

Seminar/field course deals with the biology of warm temperate and subtropical Florida including vegetation, fauna, geology, history, and economy. Offered spring semester of even-numbered years, it requires a single weekly class meeting plus an intensive 10-day field trip to parks, natural areas, and refuges in Florida over spring break. Field trip costs for the student include food, transportation, entrance and camping fees. Prerequisite: Biology major with junior standing or permission of instructors.

BIO430 PRINCIPLES OF EVOLUTION (3 CRS.)

Introduction to evolutionary principles, their applications, and to the appropriate literature. Major topics include the history of evolutionary concepts, the species and speciation processes, phylogenetic patterns and their reconstruction, classification, biogeography, extinction, and biological nomenclature. Three hours lecture/week. Prerequisites: Principles of Biology I and II and Genetics or permission of instructor.

BIO442 HYDROBIOLOGY (3 CRS.)

Introductory course in fresh water ecology. Field work consists of the study of selected aquatic environments and includes methods of collecting data, identification of aquatic organisms and the interpretation of factors which influence their distribution. A paper based upon field work is required. Prerequisites: Principles of Biology, Zoology, and Botany or graduate status.

BIO444 CONSERVATION BIOLOGY (3 CRS.)

Applies the principles of population ecology, population genetics, biogeography, animal behavior, and paleobiology to the maintenance of global diversity and natural systems. Research theory is applied to conservation policy and management decisions. (*Two periods lecture and two periods lab/discussion per week.*) Course includes midweek and weekend field trips. Prerequisites: college course in ecology or wildlife biology, or either senior or graduate status in the biology department.

BIO446 ECOLOGY OF MARINE PLANKTON (3 CRS.)

Deals with the phytoplankton of near shore and pelagic waters. The importance of phytoplankton in energy flow is emphasized. *Taught only at WIMSC during summers.*

BIO448 FIELD BOTANY AND PLANT TAXONOMY (3 CRS.)

Deals with the principles of classification and systematics of vascular plants, with an emphasis on local plant communities. Field trips and laboratories develop skill in the use of technical and popular identification manuals. Library readings develop familiarity with the principles and literature of plant systematics and ecology. Memorization of selected, local species is required. Field trips include several local excursions plus a weekend trip to natural areas in Pennsylvania and the Delmarva Peninsula. Prerequisite: Principles of Biology or Basic Biology or permission of instructor.

BIO450 ENDOCRINOLOGY (3 CRS.)

Study of the glands of internal secretion and their biochemical and physiological role in development, growth, metabolism, homeostasis and reproduction of animals. Prerequisite: Human Physiology or permission of instructor.

BIO455 ALGAE AND AQUATIC PLANTS (3 CRS.)

Lectures and laboratories explore the structure, function, diversity, and economic importance

of algae plus the aquatic groups of fungi, bryophytes, and vascular plants. Laboratories emphasize the use of technical keys and include collecting techniques plus a Saturday field trip in early September. Prerequisite: Principles of Biology or permission of instructor.

BIO461 TECHNIQUES IN BIOTECHNOLOGY (3 CRS.)

Provides students with hands-on experience with standard molecular biology and immunological techniques commonly used in industrial and academic laboratories. Methods will include immunoblotting methods, ELISA, isolation and analysis of DNA and RNA, protein purification, and gene cloning techniques. *One hour lecture and four hours lab/week.* Prerequisites: Principles of Biology I and II, Microbiology, Genetics, Cell Biology or Bio-chemistry. Pre- or co-requisites: Immunology and Molecular Biology or permission of instructor.

BIO462 INVERTEBRATE ZOOLOGY (3 CRS.)

Synopsis of the phylogeny, classification and important adaptive features of major and minor invertebrate phyla. Emphasis is placed on taxonomy and a comparative study of the morphology, composition, and functioning of the animal organ systems or their operational equivalent, as they occur in a broad representation of invertebrate groups, to include patterns of development, reproductive strategies, and life history adaptations. Graduate students will be required to complete additional course requirements. Prerequisites: Upper division standing, graduate status, or permission of instructor.

BIO463 VERTEBRATE ZOOLOGY (3 CRS.)

Explores the diversity, function, and phylogenetic relationships among the vertebrate animals. Graduate students are required to submit a research paper on a topic approved by the instructor in addition to other course requirements. *Two hours lecture and*

two hours lab/week. Prerequisites: Principles of Biology I and II, or graduate standing, or permission of instructor.

BIO478 MICROTECHNIQUES (3 CRS.)
Consideration of the methods of preparation for microscopic study of plant and animal tissues. It includes some aspects of histological, cytochemical/histochemical, and immunocytochemical studies. *Two hours lecture and two hours lab/week.* Prerequisites: Principles of Biology I and II and eight hours of chemistry. (Offered spring semester, odd years.)

BIO485 BIOLOGICAL MICROSCOPY AND IMAGING (3 CRS.)
Covers principles and techniques in macrophotography, light microscopy, especially micro- photography and videography, and scanning electron microscopy (SEM). Students will learn specimen handling and preparation including basic theory and practice in fixation, dehydration, dark room techniques, and computer imaging. Students are expected to perform basic maintenance and alignment of the SEM. A research project is required. Graduate students will be required to complete additional course requirements. Prerequisites: Upper division or graduate standing or permission of instructor.

BIO491 SELECTED TOPICS (1-3 CRS.)
Department opportunity to offer courses in areas of major interest not covered by regular courses.

BIO494 FIELD RESEARCH TECHNIQUES (3 CRS.)
Overview of methods for investigating biological field problems. Students will learn to use a variety of techniques in field conditions. Collection, analyses, and interpretation of data will be emphasized. Methods applied in current professional literature will be discussed. Graduate students will be required to complete an independent

project culminating in a written report. Prerequisites: Graduate or upper division standing or permission of instructor.

BIO501 TOPICS IN EVOLUTIONARY BIOLOGY (3 CRS.)
Overview of selected contemporary issues in evolutionary biology. Class time divided between lectures and student-led discussions, which focus on topics of current interest in evolutionary biology. Prerequisite: undergraduate degree in biology or permission of instructor.

BIO513 CYTOGENETICS (3 CRS.)
Concerned with those aspects of genetics which can be studied by microscopy including chromosome structure, mitosis, meiosis, chromosome number, sex determination, and speciation. Aspects of human cytogenetics including abnormalities in chromosome number and structure is considered. Molecular biology of chromosome structure and function is emphasized. Prerequisite: 3 hours of genetics.

BIO514 AQUATIC ENTOMOLOGY (3 CRS.)
Rigorous course concentrating on the taxonomy and morphology of the insects having representatives spending all or part of their life cycles in aquatic environments. Intensive field and laboratory work centers on collection, classification of representative types and studies of ecological roles of various aquatic habitats. Prerequisite: Entomology, graduate status, or permission of instructor.

BIO515 HOW TO RESEARCH, WRITE, AND PUBLISH A SCIENTIFIC PAPER (1 CR.)
Introduces biology graduate students to techniques and skills required to successfully research, write, and publish scientific papers. Topics include: What is research?; Why publish?; experimental design; literature searches; preparing a manuscript; preparing tables and figures; what, how, and where to

submit; the editorial review process; and oral and poster presentation of research papers.

BIO516-519 GRADUATE SEMINAR (1 CR.)

Provides biology graduate students with an in-depth survey of current research in one of four core areas in the graduate curriculum: ecology, physiology, genetics/cell biology, and structure/morphology/taxonomy. Emphasis is on student-led discussions of papers assigned and read. Prerequisites: Biology graduate students must take two seminars in two different core areas or one core area plus *BIO515*.

BIO520 PLANT ECOLOGY (3 CRS.)

Explores structure and function of natural plant communities and exposes students to methods of field sampling and data analysis in community ecology. Will include field labs to local forest and wetland plant communities. Prerequisite: Ecology.

BIO535 PROBLEMS IN PLANT PHYSIOLOGY (3 CRS.)

Laboratory experience in selected plant physiology topics such as photosynthesis, translocation of the photosynthate, metabolic conversions, respiration, nitrogen metabolism, mineral nutrition and water relations. Prerequisite: 8 hours of chemistry or permission of instructor.

BIO540 BIOGEOGRAPHY (3 CRS.)

Examines factors influencing distribution of animals and plants in the biosphere through lecture/discussion. Prerequisite: Graduate status.

BIO541 ECOSYSTEMS (3 CRS.)

Explores pattern and process in ecosystem, emphasizing elemental cycling and energy flow in and across terrestrial and aquatic ecosystems, and interfaces with biotic communities. Will include methods and approaches in ecosystem ecology and review of primary literature. Prerequisite: Ecology.

BIO547 WETLAND ECOLOGY (3 CRS.)

Wetlands and the resident wildlife are studied as a unit to better understand the fragility of this invaluable habitat. Classification, delineations, wetlands protection techniques, current status of wetlands, specifically coastal wetlands will be the focus.

BIO555 COMPARATIVE ENVIRONMENTAL PHYSIOLOGY (3 CRS.)

Considers comparative aspects of life functions in selected representatives of the animal kingdom with respect to their different environments. Prerequisite: Animal Physiology or Human Physiology or permission of instructor.

BIO556 PHYSIOLOGICAL MECHANISMS OF ANIMAL BEHAVIOR (3 CRS.)

Emphasizes neural and hormonal control of behavioral adaptations of a wide variety of organisms, both invertebrates and vertebrates. Beginning with basic neurophysiology and culminating in associative learning, the commonalities and varieties of behavioral adaptations are investigated. Prerequisite: 12 hours of either college biology or psychology.

BIO557 MICROBIAL PHYSIOLOGY (3 CRS.)

Examines the basic metabolism of bacteria, yeasts, and protozoans. Topics include metabolic pathways, regulations of metabolism, mechanisms of motility, and the role of oxygen in anaerobes, aerobes, and microaerophiles. Prerequisite: Microbiology.

BIO558 MICROBIAL ECOLOGY (3 CRS.)

Examines the interactions of bacteria, yeasts and protozoans in the environment. The role of each type of microorganism in degradation and nutrient recycling is explored in the laboratory and in the field. Topics include soil, water, and gut microbiology; microorganisms as geochemical agents; microbial succession; and seasonal variation in microbial populations. Prerequisite: Microbiology.

BIO559 EVOLUTIONARY ECOLOGY (3 CRS.)

Lectures and discussion periods cover topics of physiological ecology, interspecific interactions, population ecology, community structure, the ecological niche, coevolution, and biogeography. Prerequisite: A previous college ecology course or permission of instructor.

BIO577 ECOMORPHOLOGY (3 CRS.)

Intended for students interested in a holistic approach to biology and experimental research. Reviews the morphological adaptations of animals with emphasis on vertebrates. The functional and behavioral aspects of these adaptations are discussed in the context of the evolutionary and ecological relationships of key taxa. Students are expected to apply their academic background to research, deliver, and discuss the morphological traits enhancing animal's biological fitness. Ramifications of Ecological Morphology (i.e., molecular biology, genetics, physiology, systematics, philosophy) could be also considered. Course is a combination of lectures, student presentations, and discussions of current scientific literature. Prerequisite: BIO462 Vertebrate Zoology or Comparative Vertebrate Anatomy or permission of instructor.

BIO581 TOPICS IN MAMMALIAN BIOLOGY (3 CRS.)

Lectures and discussion examine topics of contemporary interest in mammalogy, including ecology, population dynamics, systematics, physiology, behavior, and zoogeography. Emphasis is on ecological studies of temperate forest small mammals. *May involve some field work.* Prerequisite: A course in mammalogy or graduate status.

BIO583 BIOLOGICAL TECHNIQUES (3 CRS.)

Laboratory and field-oriented course. Students become skilled in a variety of techniques, selecting with advisement those activities most related to their interests and goals.

BIO593 BIOMETRY (3 CRS.)

Examines the uses of parametric and non-parametric statistics in biological research.

Students gain practical experience in the application of statistical analyses to sets of original data using both hand calculation and packaged computer programs with emphasis on the organization and preparation of data for analysis, the selection of appropriate statistical tests, and the interpretation of the results of analyses of both published and unpublished data. *A pocket calculator with square root function is recommended.* Prerequisite: At least 14 credit hours of college biology.

BIO594 SELECTED TOPICS (1-3 CRS.)

Department opportunity to offer courses in areas of major interest not covered by regular courses.

BIO599 INDEPENDENT STUDY (3 CRS.)

Opportunity to pursue special studies in biology or biology education on topics not available in other courses.

BIO600 BIOLOGICAL RESEARCH METHODS (3 CRS.)

A general study of research methodology in biology with a specific research design and project. Topics in the general study may include use of library resources, collection of data, framing and testing hypotheses and other techniques for evaluating evidence. The specific project consists of the development of a research design for the study of a specific problem in biology.

BIO605-608 GRADUATE RESEARCH (3-12 CRS.)

Opportunity to engage in research under the guidance of a member of the biology faculty.

BIO609 INTERNSHIP (3 CRS.)

Opportunity for students to gain practical experience in their chosen career area.

BIO612 THESIS I (3 CRS.)

Provides master's degree candidates with the opportunity to conduct a major research project. A research proposal and literature review are required. First in a two-course

sequence. A temporary grade of Q will be assigned until the thesis is completed.

BIO613 THESIS II (3 CRS.)

Second in a two course sequence of graduate courses designed to provide master's degree candidates an opportunity to conduct a major research project. Students implement the research designed in Thesis I, collect data, write a thesis, and make an oral presentation. Prerequisite: *BIO612*.

Business Administration (MBA)

MBA501 ECONOMIC AND INFORMATION SYSTEMS ENVIRONMENT (4 CRS.)

Introduction to macroeconomic and microeconomic principles with an emphasis to applications to modern business problems. Major topics include supply and demand, consumer behavior, theory of the firm, market structure and competition, monetary and fiscal policy, and international trade. The role of information technology in business environment is also discussed, including such topics as doing business on the Internet, database management, client-server networks, and information security. *This course is part of the graduate business certificate and does not count toward the MBA degree.*

MBA502 MANAGERIAL ACCOUNTING (3 CRS.)

Develops an understanding of the quantitative use of accounting data for decision making within the firm. The focus is on developing an understanding of and appropriate use of cost in managerial decision making. Although the appropriate use of cost in this course refers primarily to short-term decisions, the strategic implications of cost analysis are also addressed.

MBA503 BUSINESS OPERATIONS AND ANALYSIS (4 CRS.)

Explores the responsibilities and processes needed for a business to provide a product or service to customers. Case studies and real-

world examples are used extensively to investigate the problems encountered in these business operations. Quantitative and non-quantitative methods and models are used in the analysis of topical subject areas such as forecasting, capacity planning, materials management, scheduling, and quality control. *This course is part of the graduate business certificate and does not count toward the MBA degree.*

MBA504 ESSENTIALS OF ACCOUNTING AND FINANCE (4 CRS.)

Introduces the basics of financial accounting and financial management. The accounting concepts, practices, and principles that guide the preparation of the balance sheet, income statement, and the statement of cash flows are all presented. Financial management concepts and techniques are used to evaluate the financial performance of the firm. Topics include financial statement analysis, working capital management, and capital budgeting. Emphasis is placed on the interpretation and limitations of financial reports and their use in evaluating the performance of the firm. *This course is part of the graduate business certificate and does not count toward the MBA degree.*

MBA505 ORGANIZATIONAL BEHAVIOR AND MARKETING (4 CRS.)

The organizational behavior component examines human behavior in organizations and considers the practical skills managers need to motivate peers and subordinates, make decisions, deal with conflict, and succeed in a team-based environment. The marketing component examines marketing planning, marketing research, buyer behavior, market segmentation and targeting, as well as the key elements of a marketing strategy. *This course is part of the graduate business certificate and does not count toward the MBA degree.*

MBA508 STRATEGIC MANAGEMENT AND LEADERSHIP (4 CRS.)

Explores strategic vision and direction. The importance of achieving a fit between the internal and external environment for organizational survival and success is a central issue. The strategic concepts of competitive advantage, strategy formulation and implementation, power and influence, organizational change, and leadership will be addressed. Case studies, business articles and text material will be used to examine strategy and leadership theory, heuristics, and practice. *This course is part of the graduate business certificate and does not count toward the MBA degree.*

**MBA529 GLOBAL MANAGERIAL FINANCE
(3 CRS.)**

Explores basic financial theories, their application, and financial decision models necessary for handling complex corporate financial problems in the global environment. Emphasizes the important role of finance in the global business operations.

MBA552 ENTREPRENEURSHIP (3 CRS.)

Examines all aspects of starting a new business, with emphasis on the critical role of recognizing and assessing opportunities. Topics include attributes of entrepreneurs and entrepreneurial careers, creating and evaluating opportunities, writing business plans, and financing new ventures.

MBA554 INTERNATIONAL BUSINESS (3 CRS.)

Presents broad view of issues facing professionals in the international business area. Topics are broad and include international trade, exchange rates, finance, organizational structure, and international legal dimensions. Student learns to weave the social, technical, cultural, risk and human relations factors into a global context.

**MBA556 ORGANIZATIONAL LEADERSHIP
(3 CRS.)**

Examines the leadership and influence issues managers face. Attention is given to leading up, down, and across the organization,

recognizing leadership is not limited to managers. Through guest business speakers, cases, readings, projects, and simulations, students gain greater insight and skill in leading. Topics include characteristics of effective leaders, power and influence strategies, crisis management, organizational politics, and leadership assessment.

**MBA 565 INFORMATION MANAGEMENT AND
ANALYSIS FOR DECISION MAKING (3 CRS.)**

Provides skills and tools necessary for managers to efficiently solve problems using information technology to support the decision making process. Using a variety of software packages, structured, semi-structured and unstructured problems will be analyzed and the role of information technology investigated. Models based on quantitative and non-quantitative data will be studied also.

**MBA577 SUPPLY CHAIN MANAGEMENT
(3 CRS.)**

Introduces an integrated enterprise approach of flow of goods and services from suppliers to customers (supplier relationship, procurement, operations management, inventory control, logistics and transportation, distribution and customer service). Every topic in each area is being discussed in the context of integrated flow of goods and services from suppliers to customers and continuous flow of information from the customers to the suppliers. Covers the issues facing managers of import-export firms, trading companies, international service companies, and multinational corporations.

MBA593 STRATEGIC MANAGEMENT (3 CRS.)

Examines strategic analysis and decision making under conditions of dynamic uncertainty, with a focus on cross-functional integration and the management of processes and change. The importance of achieving a fit between the internal and external environment for organizational survival and success is a central issue.

Business Information Systems (BIS)

BIS420 TELECOMMUNICATIONS AND DISTRIBUTED PROCESSING (3 CRS.)

Examines the technology, organization and operations of telecommunications and distributed data processing systems. Topics include hardware/software facilities, transmission systems, system design considerations, and distributed system configurations. Business functions and case studies are used to illustrate the application of telecommunication and distributed processing technology. Prerequisite: *BIS355*.

BIS446 TOTAL INFORMATION SYSTEMS (3 CRS.)

In-depth seminar into the total information needs within a corporate structure. Cooperative project teams each develop a total information system design requirement for a corporation. Coverage includes: analysis of case studies of current business systems, organizations of project teams, formulation of the overall data base design within a corporate system, collection and structurization of information, documentation of information flow, flowcharts and decision tables preparation, establishment of practical controls and systems documentation requirements, and development and implementation of the systems test plan. Presentation of project progress and final team document is required. Prerequisites: *BIS344* and *BIS445* or permission of instructor.

Chemistry (CHM)

CHM413 TOPICS IN POLYMER CHEMISTRY (3-4 CRS.)

Introduction to synthesis, characterization, and physical properties of macromolecules. Topics of discussion and experimentation include polymerization mechanisms, kinetics and techniques; structure-property relationships; molecular weight distribution and characterization; the glass transition temperature; rubber elasticity and viscoelasticity. (3 periods lecture and 3

periods lab/week.) Prerequisites or concurrents: *CHM222*, *CHM361* and *PHY206* or equivalents. Graduate students may register for the course without the laboratory for 3 semester hour credits.

CHM415 TOPICS IN MEDICINAL CHEMISTRY (3 CRS.)

Study of basic principles of organic chemistry and pharmacology used in the design of chemical substances that interact with biological systems. Discussion centers on molecular basis for drug action, structure activity relationships and methods of synthesis of the important classes of drug substances. Prerequisites: *CHM221* and *CHM222*.

CHM420 BIOCHEMISTRY II (3 CRS.)

Extension of *CHM301*. Develops to a greater depth the topics of bio-organic chemistry, enzyme kinetics and mechanisms, intermediary metabolism and metabolic controls and certain selected topics which are necessary for an understanding of modern biochemistry. Prerequisite: *CHM301*.

CHM421 BIOCHEMISTRY LABORATORY (1 CR.)

Introduces various laboratory techniques essential to the practice of modern biochemistry including separations, purification, and analytical methods. Prerequisite: *CHM301*.

CHM450 STUDIES IN PHYSICAL CHEMISTRY (3 CRS.)

Studies selected topics in advanced physical chemistry with extensive use made of current literature in the field. Topics are chosen from quantum chemistry, statistical thermodynamics, catalysis, molecular spectra and molecular structure. Prerequisite: *CHM362* or permission of instructor.

CHM460 INSTRUMENTAL ANALYSIS (3 CRS.)

Laboratory course with a study of the following instrumental methods of analysis: fluorescence, X-ray, atomic absorption, flame emission, mass spectrometry, high pressure liquid chromatography and nuclear techniques. Students perform analyses with all instruments. A short discussion period precedes each

laboratory exercise. Prerequisite: *CHM362* or permission of instructor.

CHM480 ORGANIC REACTIONS AND MECHANISMS (3 CRS.)

Concerned with theoretical organic chemistry with emphasis given to stereochemistry, electronic theory, reaction mechanisms and the application of physical methods to organic chemistry. Prerequisite: *CHM222* or permission of instructor.

CHM490 SELECTED TOPICS (1-3 CRS.)

Communication/Journalism (COM)

COM400 PUBLIC RELATIONS WRITING (3 CRS.)

Provides public relations majors with a variety of public relations writing experiences most likely to be encountered in business, government, education, journalism, and community organizations and offers practical exercises in progressive sequence. *Different evaluation criteria applied to graduate/undergraduate students.*

COM451 ELECTRONIC NEWS GATHERING (3 CRS.)

Focus is the preparation of students for careers as professional electronic journalists. Emphasizes the development of news judgment, journalistic responsibilities, and journalistic ethics. Students will work in classroom and television environments to acquire and improve reporting, writing, and technical skills needed to succeed in the electronic newsroom. Introduces students to the culture of the broadcast news environment, including meeting deadlines and working in a team environment both in the field and in the newsroom. Prerequisites: *COM224*, *COM370*, and prior experience shooting and editing video, or permission of instructor. *Different evaluation criteria applied to graduate/undergraduate students.*

COM452 ELECTRONIC FIELD PRODUCTION (3 CRS.)

Designed to develop and train visual essayists — single camera videographers who link pictures, words, and sound to create electronic stories. Course creates, develops, and polishes skills and techniques needed by students to produce video documentaries, corporate videos, and live event productions. The skills and techniques developed in this course include: telling the visual story without words; writing and shooting long-form TV stories, interviews, and features; learning visual grammar; perfecting video editing; and developing on-camera performance availabilities. Prerequisites: *COM224*, *COM370*, and prior experience shooting and editing video, or permission of instructor. *Different evaluation criteria applied to graduate/undergraduate students.*

COM460 CASE STUDIES IN PUBLIC RELATIONS (3 CRS.)

Reviews current public relations principles and practices as related to business, governments, institutions, and associations. Examines the application of PR principles and practices in the management of contemporary public issues and problems. *Different evaluation criteria applied to graduate/undergraduate students.*

COM470 DIGITAL PHOTOGRAPHY (3 CRS.)

Introduces the principles of digital photography and teaches students basic competencies to apply standard photo concepts to the realm of digital imaging. Students study the history of digital photography, the techniques of composition, and basic processes of producing digital photographs from electronic and traditional camera images. Emphasis is on practical technique with electronic equipment (cameras, scanners, photo CDs, and other methods of image acquisition) and the manipulation of images through applications like Adobe Photoshop. Students are expected to develop an understanding of the relationship of digital photography to their professional goals. *Different evaluation*

criteria applied to graduate/undergraduate students.

COM475 BOOK PRODUCTION (3 CRS.)

Principles and laboratory practice in magazine and/or book production and design include analysis of principles of layout; observing principles of typography; graphics; digital and traditional photography; headlines and titles; ethics of publishing; history and impact on society; editorial design, advertising and circulation challenges; freelance sources; dealing with editors; specialization; positioning and launching. Visits to publishing houses.

Graduate students will conduct market research and participate directly in publishing projects that are in process including proofreading, copyediting, and preparation for submission to authors and publishers.

COM476 MAGAZINE DESIGN (3 CRS.)

Provides an opportunity for students to examine, discuss, and create periodical publications (magazines) in a variety of specialized formats. Develops student skills in understanding and creating periodical publications by focusing on writing and design. Course will examine a variety of magazines to provide students with an understanding of content, typography, design, layout, and production. In addition, students will learn to develop promotional materials necessary to help develop an audience for a periodical publication. Students will also write and edit several stories for their own publication, which they will create as a final project for the course. Students produce a 32-page magazine as this final project. *Graduate students taking this course will conduct market research analysis and a strategic promotional plan in addition to standard coursework.*

COM481 INTERACTIVE MEDIA DESIGN (3 CRS.)

Study in interactive communication with primary emphasis on desktop publishing (Macintosh) and the practical application of

contemporary interactive design to print and on-line materials and messages using the Macromedia Director design program.

Prerequisite: Rudimentary experience with Apple OSX or permission of instructor.

Different evaluation criteria applied to graduate/undergraduate students.

COM482 INTERNET COMMUNICATION (3 CRS.)

Introductory course provides students with the fundamental knowledge concerning the construction, use, and importance of World Wide Web media for the communications industries. Students will construct an actual website, concentrating on the usability of web pages and websites while applying skills gained in class to work with "real world" clients. *Different evaluation criteria applied to graduate/undergraduate students.*

COM490 SELECTED TOPICS (1-3 CRS.)

Different evaluation criteria applied to graduate/undergraduate students.

COM500 COMMUNICATION THEORY (3 CRS.)

Analyzes communication theory as it relates to media and audiences and studies the effects of communications on the attitudes and actions of society.

COM511 MODES OF FILM COMMUNICATION (3 CRS.)

Reviews the theory, history, and criticisms of films; analyzes the content and roles of various modes of film such as documentary, exposition, etc.; provides writing opportunities for the film medium.

COM516 PHOTOGRAPHIC COMMUNICATION (3 CRS.)

Surveys the history of photography; studies the theory of photography including light, exposure, optics, photographic chemistry, color and composition, and provides background in using photography as a communication tool.

COM526 EMERGING MASS MEDIA TECHNOLOGIES (3 CRS.)

Reviews and analyzes the role of developing and future telecommunications media technologies and their implication for today's media and society.

COM530 LAW AND THE MEDIA (3 CRS.)
In-depth study of the law that affects media. Focuses on the reasoning behind regulation, the impact of the laws, and the need for changes in current regulatory schemes. Legal research skills and methods are stressed.

COM536 WORLD BROADCASTING SYSTEMS (3 CRS.)
Comparative study of international broadcasting program policies, economic systems, control, and organization. The use of broadcasting in international affairs as an instrument of propaganda, culture, and information dissemination. Monitoring of overseas broadcasts, and discussions with representatives of domestic and foreign broadcast agencies.

COM544 ADVANCED COMMUNICATION PROBLEMS (3 CRS.)
Students identify a communication problem related to their professional project or to their thesis. Students then suggest possible solutions and produce or procure the materials needed to implement the solution chosen. Prerequisite: *COM500*.

COM561 PRESS AND PUBLIC AFFAIRS (3 CRS.)
Investigates the relationship between print and electronic mass communication systems and local, state, and national governments, including regulatory agencies and barriers to the free flow of information. Considers the roles and functions of the press in reporting public affairs in the light of topical issues.

COM570 FUND RAISING AND ASSOCIATION PUBLIC RELATIONS (3 CRS.)
Introduction to the fundamentals of raising funds for education, religious, health, and social welfare organizations. Study includes a review of the conventional techniques used in reaching traditional funding sources.

Association organization, membership development, and volunteer support round out the course.

COM594 SELECTED TOPICS (1-3 CRS.)

COM600 INTRODUCTION TO MASS COMMUNICATION RESEARCH (3 CRS.)
Surveys major trends in mass communication research, including sociological and psychological perspectives, which have built our knowledge about how communication systems work. Through the examination of classic studies in the mass communication field, the student is introduced to a variety of research settings and techniques including readability, persuasion, content analysis, interviewing, questionnaire design and sampling. Prerequisite: *COM500*.

COM603 PROFESSIONAL PROJECT IN MASS COMMUNICATIONS (3 CRS.)
Students design a project of professional and intellectual interest that contributes both to their knowledge and to the field of communication/journalism. Prerequisites: *COM500, 544, 561, 600*. (*This is an individualized instruction course open only to students who are working with an adviser on the professional project option.*)

COM609 INTERNSHIP I (3 CRS.)

COM610 INTERNSHIP II (3 CRS.)

COM612 THESIS I (3 CRS.)
Prerequisite: Prior approval of department chair.

COM613 THESIS II (3 CRS.)
Prerequisite: Prior approval of department chair.

Computer Science (CSC)

CSC500 DISCRETE STRUCTURES OF COMPUTER SCIENCE (3 CRS.)

Introduction to theoretical and mathematical underpinnings of computer science. Topics include propositional and predicate logic and their application to software specification; regular expressions, BNF automata and other finite state machines including their implementations, Turing machines and computability; techniques for run-time analysis including the Big-Oh and Big-Omega notations, discrete probability and elementary combinatorics.

CSC510 OBJECT ORIENTED PROGRAMMING I
(3 CRS.)

Introduction to programming with a high-level language. Emphasis on good program construction, including top-down design, documentation, testing, and debugging. Addresses basic data types and control structures, and their appropriate use. Various abstract data types and algorithms will be introduced.

CSC511 OBJECT ORIENTED PROGRAMMING II
(3 CRS.)

Continues introduction to programming from CSC510. Includes classic techniques for algorithm design and implementation including brute force, recursion, dynamic programming, and greedy strategies. Abstraction and encapsulation through classic data structures. Introduction to basic algorithm analysis and software engineering principles. Prerequisite: *CSC510*.

CSC512 EVENT DRIVEN PROGRAMMING
(3 CRS.)

Emphasizes Windows programming through the usage of Microsoft Foundation Classes. The IDE, Visual Studio, serves as the vehicle for application development. Commonly used subset of the MFC hierarchy serves as the backbone of the applications; primary classes are *CDialog*, *CFrameWnd*, and *CWinApp*. Particular applications are done for the standard GUI controls using messages and the handlers thereof. IDE-supplied resources and

language is used in implementation.
Prerequisite: *CSC511*.

CSC520 COMPUTER ORGANIZATION (3 CRS.)

Introduction to computer architecture, operating systems, and communications. Topics include number and coding systems, overview of microprocessors, supporting chips, memory and memory interfacing, I/O design, timers, interrupts and interrupt processing, DMAs, video adapters, data communication, keyboard and printer interfacing, disk storage, TSRs, and bus architectures.

CSC521 OPERATING SYSTEMS (3 CRS.)

Studies functionality of an operating system and design of efficient operating system components. Definition of a kernel and higher-level functions of operating systems, CSC scheduling algorithms. Interprocess communication including semaphores with busy-wait and idle-wait. Deadlock, the dining philosophers problem and starvation. Resource allocation. The bankers Algorithm. Virtual memory architectures. Introduction to distributed operating systems. Prerequisite: *CSC520*.

CSC522 PARALLEL ARCHITECTURES (3 CRS.)

Studies of various forms of parallelism. Analysis of pipelined processors and the effects of branching. Analysis of single and multi-state interconnection networks including star, ring, hypercube, and Benes networks. Massively parallel computing with array machines, shared memory, and distributed memory multiprocessor computers. Applications/algorithms for parallel computers. Distributed shared memory systems including memory and cache coherence. Prerequisite: *CSC520*.

CSC530 COMPUTER NETWORKS AND COMMUNICATIONS (3 CRS.)

Provides an understanding of the theoretical and conceptual components of computer networks and communications. Topics include: network topology, protocols and routing algorithms, and network design issues. Topics are discussed vis-à-vis simple point-to-point

networks, shared media networks like the Ethernet, token ring, ATM and the Internet. Students will also learn how to write network applications using the client server model.

CSC531 WEB PROGRAMMING (3 CRS.)

Introduction to developing a complete website. Includes designing web pages, frames, forms, and form processing, cascading style sheets, various scripting languages, database access, client-serve programming and active service pages. A significant web development project will be required. Prerequisite: *CSC570*.

CSC570 DATABASE MANAGEMENT SYSTEMS (3 CRS.)

Examines the theory and practical issues underlying the design, development, and use of a DBMS. Topics include characteristics well-designed databases; high-level representation of an application using ER modeling; functional dependency using ER modeling, functional dependency theory, normalization and application toward a well-designed database; abstract query languages; query languages; concurrency; integrity; security. Advanced topics may be included. Students apply theory to practice in a number of projects involving design, creation, and use of a database. Prerequisite: *CSC510*.

CSC590 TESTING AND DEBUGGING STRATEGIES (3 CRS.)

Covers disciplined development test cases for program verification. Classes of tests including glass box tests and black box tests will be developed for unit test, collaboration test, inheritance tests, and collection tests. Tools and strategies for debugging will be explored. Labs will consist of a sequence of broken programs that the student will test and debug. Research into testing strategies will be explored. Prerequisites: *CSC510* and scheduled for *CSC511*.

CSC599 ADVANCED TOPICS IN COMPUTER SCIENCE (3 CRS.)

Students will research an emerging topic in computer science. In addition to reading appropriate journal articles, students may develop empirical studies to evaluate the current theoretical results.

Counseling (CNS)

CNS490 SELECTED TOPICS (1-3 CRS.)

CNS502 THE ROLE OF THE ELEMENTARY COUNSELOR (3 CRS.)

Provides the prospective elementary school counselor with an understanding of concepts and techniques essential to the counseling and guidance process in the elementary school. A major consideration is the emerging role of the elementary counselor and his/her relationship to other pupil personnel services at that level. Prerequisites: Completion of Phase I of program and *CNS585*.

CNS505 ORGANIZATION AND ADMINISTRATION OF SCHOOL COUNSELING SERVICES (3 CRS.)

Studies basic philosophy, principles, and current trends in the organization and administration of comprehensive school counseling programs. Emphasis is given to line-staff organization, guidance committees, counselor-teacher relationships, adult-community guidance services and roles of school personnel and community agencies in understanding and promoting the school-community guidance programs. Prerequisites: Completion of Phase I of program and *CNS585*.

CNS508 MARITAL, COUPLE AND FAMILY COUNSELING (3 CRS.)

Designed to aid student in gaining experience and competency in the use of therapeutic interventions with married person, couple, and families. Emphasis on the understanding of prominent theoretical modalities and applying the relevant techniques to classroom simulations. Students gain understanding and experience in dealing therapeutically with

typical marital, couple, and family problematic concerns. Prerequisite: Completion of Phase I or permission of instructor.

**CNS509 MULTICULTURAL COUNSELING
(3 CRS.)**

Designed to sensitize students and promote an understanding of their own self as a cultural being and to acquire expertise in the use of therapeutic interventions with diverse populations. Emphasis on the learning of approaches and application of techniques that facilitate intra- and intergroup and multicultural experiences.

**CNS510 DRUG AND ALCOHOL COUNSELING
(3 CRS.)**

Designed to aid students in gaining understanding of the theories of causation and treatment of alcohol and drug addiction abuse. Students also gain experience and competency in the use of therapeutic interventions and techniques through classroom simulations. Prerequisite: Completion of Phase I or permission of instructor.

**CNS512 GROUP COUNSELING LEADERSHIP
SKILLS (3 CRS.)**

Provides a didactic and experiential overview of a variety of group theories and group types. Particular attention given to tools and techniques necessary to function effectively in the role of group leader. Emphasis on both the acquisition of knowledge and the skills of group leadership theories and techniques. Prerequisite: *CNS578* or concurrent registration with permission of instructor.

CNS515 CAREER DEVELOPMENT (3 CRS.)

Stresses development of counselor competencies in the areas of collecting, evaluating, classifying, filing, and using accurate occupational, educational and personal-social informational materials. Also considered are theories of vocational choice, the psychology and sociology of work,

vocational interests and aptitudes, the relationship of school and college subjects to jobs and the use of information in helping students decide on matters of curricular choice. Counseling interviews are employed to give students practical experiences in the use of informational materials with counselees.

**CNS522 ASSESSMENT TECHNIQUES IN
COUNSELING AND STUDENT AFFAIRS
(3 CRS.)**

Detailed study of collecting meaningful information about individuals and their environment through both testing and non-testing procedures. Emphasis is on understanding the information in order to help individuals cope with concerns and make decisions. Prerequisite: *CNS600*.

**CNS524 CLASSIFICATION OF
PSYCHOPATHOLOGY (3 CRS.)**

Studies the classification system of psychopathology. Special emphasis placed on building counseling models based on the integration of the classification and the client's individual situation.

**CNS530 CLINICAL SUPERVISION THEORY AND
TECHNIQUES (3 CRS.)**

Designed to help counselors in a variety of settings to develop and/or enhance their professional functioning as clinical supervisors. No prior supervision experience is necessary. A concurrent experience providing supervision will be included in the course. Prerequisite: A master's degree in counseling or its equivalent.

**CNS531 ADVANCED STUDY IN
MULTICULTURAL ISSUES (3 CRS.)**

Designed for current practitioners in helping services who already have earned a master's degree who desire to expand knowledge and skills in working with diverse populations and in creating a society where "freedom and justice for all" can become a reality. Prerequisite: A master's degree in counseling or its equivalent.

CNS532 ADVANCED DRUG AND ALCOHOL COUNSELING (3 CRS.)

Acquaints student with the concept of alcohol and drug dependence as a primary, progressive, chronic, potentially fatal, and symptomatic disease that impacts the entire family system. Explores the disease from a bio-psycho-social and spiritual perspective as well as demonstrating various multidisciplinary approaches to arresting and successfully treating the illness. Attention to principles of early intervention, prevention, special populations, and standards necessary for achieving certification as an addiction counselor in Pennsylvania. Explores the developmental models of recovery, relapse prevention methods, and treating the dually diagnosed client. Course is designed to prepare students as facilitators who can utilize addiction concepts and skills in a variety of counseling settings. Prerequisite: Master's degree in counseling or its equivalent.

CNS534 TREATMENT OF DSM IV-TR DISORDERS (3 CRS.)

Designed to engage practicing counselors in expanding their knowledge of the current DSM Disorders and its implication for developing treatment interventions and strategies. The classification system of pathology will be reviewed and current knowledge about the clinical presentation, etiology, and diagnosis of commonly encountered disorders will be explored. Models and theories that guide interventions and typical treatment settings will be discussed. Students will develop protocols for treatment and will be responsible for presenting these to class members. Prerequisite: Master's degree in counseling or its equivalent.

CNS536 COUNSELING CHALLENGING ADOLESCENTS (3 CRS.)

Students will learn several unique ways of joining, finding empathy, developing and sustaining healthy boundaries, and creating ways of containing all that the most challenging adolescent clients bring to the

therapeutic counseling relationship. A wide variety of professional counseling and therapy settings will be considered. Prerequisite: Master's degree in counseling or its equivalent.

CNS537 EATING DISORDERS ACROSS GENDER, CULTURAL, AND RACIAL LINES (3 CRS.)

Designed to provide enhanced knowledge and in-depth understanding of the etiology of food and body image issues. Includes exploration of obsessions, compulsions, societal morays, and multiple messages and their effect on many groups of people. Prerequisite: Master's degree in counseling or its equivalent.

CNS541 INTRODUCTION TO ADLERIAN PSYCHOLOGY (1 CR.)

Overview of Adlerian Psychology, including the history and major principles. Alfred Adler's contributions to psychology are based on the need to understand individuals within their social context. Mutual respect, social equality, holism, cooperation, lifestyle, purposive behavior, goal orientation, encouragement, family constellation, and social interest, are just some of the principles. Covers theory and its application to one's specific setting and discipline. Prerequisite: At least a bachelor's or master's degree in counseling, psychology, education, social work, administration, or business.

CNS542 ADLERIAN PRINCIPLES IN THE WORKPLACE (2 CRS.)

Students learn Adlerian Psychology helps improve human relations in all settings, including the workplace. Work roles, conflict resolution, group dynamics, and personality variables are viewed within the Adlerian framework. Attention given to the culture of the workplace. Workplace solutions are applicable also to problems in the family and school. Participants' own work problems are discussed. Prerequisite: At least a bachelor's or master's degree in counseling, psychology, education, social work, administration or business and *CNS541*.

CNS543 ASSESSMENT TECHNIQUES IN ADLERIAN PSYCHOLOGY (3 CRS.)

Provides tools and techniques to understand individuals within their social context. In this didactic and experiential course, students will practice assessing lifestyle themes through lifestyle interviews, family constellations, early recollections, dreams, genograms, etc. One aspect will be the use of an objective instrument to understand one's own lifestyle as well as for assessing others. Prerequisite: At least a bachelor's or master's degree in counseling, psychology, education, social work, administration, or business and *CNS541*.

CNS544 ADLERIAN PRINCIPLES IN THE SCHOOLS (2 CRS.)

Designed for all school personnel to work toward a shared goal of motivating students to do well academically and to become responsible, contributing, happy, fulfilled citizens through encouragement-based strategies. These methods include democratic leadership, classroom meetings, respectful communications, natural and logical consequences, and understanding what students need to succeed. Prerequisite: At least a bachelor's or master's degree in counseling, psychology, education, social work, administration, or business and *CNS541*.

CNS545 LEADERSHIP BY ENCOURAGEMENT (3 CRS.)

Provides a forum for students to learn how the principles and methods of Adlerian Psychology can be used to enhance leadership potential. Focus on assessing leadership style, listening, motivation, enhancing teamwork and productivity, and encouragement. Prerequisite: At least a bachelor's or master's degree in counseling, psychology, education, social work, administration, or business.

CNS546 PARENT EDUCATION AND FAMILY COUNSELING (2 CRS.)

Provides instruction in the practice and theory of parent education and family counseling primarily through parent education groups and the open forum center approach. Students will have the opportunity to observe and practice the methods. Prerequisite: At least a bachelor's

or master's degree in counseling, psychology, education, social work, administration, or business.

CNS547 ADLERIAN CLINICAL COUNSELING (2 CRS.)

For counselors/therapists in practice or in training (at least at the internship level). Focus is on deepening the understanding of the four phases of the Adlerian therapy process and their application to the preferred population (children, adolescents, adults). Course is primarily practical and experiential.

Prerequisite: A master's degree in a clinical field or substantial progress toward the degree.

CNS548 USING ADLERIAN PSYCHOLOGY IN CONSULTATION AND SUPERVISION (3 CRS.)

Students will learn how to consult with parents and professionals, specifically, to teach them skills they can use with their children and clients. Additionally, students will learn supervisory skills to assist the professionals whom they supervise to overcome barriers that may inhibit them in their work. Prerequisite: At least a bachelor's or master's degree in counseling, psychology, education, social work, administration, or business.

CNS556 GUIDANCE AND COUNSELING CONFERENCE (1 CR.)

Concentrated one-week conference on a selected area of counseling and guidance. Recognized authorities in the field participate as lecturers and discussion leaders. In addition to participating in all aspects of the conference, students who are enrolled for credit attend an extra daily class session and complete an assignment related to the theme of the conference. A maximum of three semester hour credits earned in conferences may be applied toward meeting degree requirements.

CNS559 INTRODUCTION TO THE HELPING SERVICES (3 CRS.)

Surveys a wide range of helping services and introduces the basic philosophical concepts underlying each, the principles by which such services operate, and the therapeutic practices which are characteristic of each service.

Emphasis is on defining the helping relationship within each area and clarifying the ethical considerations which apply.

CNS560 INTRODUCTION TO COLLEGE PERSONNEL WORK (3 CRS.)

Surveys basic principles and practices of student personnel work in higher education. Consideration is given to problems in residence hall management, counseling services, student activities, financial assistance, student government and other relevant topics that promote an appreciation of the conduct of student personnel services in higher education.

CNS562 STUDENT PERSONNEL WORK IN HIGHER EDUCATION (3 CRS.)

Designed to provide the role concept for students in student personnel work at the college/university level. Designed to deal with specific issues and trends in the field; develop a design or operational model for program development, implementation, and evaluation; establish an operational role concept for specific student personnel positions. Prerequisites: Completion of Phase I, *CNS560*, and *CNS565*.

CNS563 PROFESSIONAL ORIENTATION TO COMMUNITY COUNSELING (3 CRS.)

Designed to provide a comprehensive overview of the rapidly evolving field of community counseling. Studies basic philosophy, principles, and current trends in the provision of community counseling services. Students gain understanding of topics such as: psychoeducational and developmental counseling, health-promotive services, indirect counseling services, crisis counseling, and ethical and legal issues.

CNS564 GRIEF AND LOSS ISSUES IN COUNSELING (3 CRS.)

Designed to help students identify, clarify the differences between grief, mourning, and bereavement and understand grief as a response to any loss, including death. Deals

with the development of skills as a competent and caring counselor and helps to achieve a deeper self-understanding of the student's own feelings, attitudes, and values regarding loss and death. Prerequisite: Completion of Phase I or permission of instructor.

CNS565 THE COLLEGE STUDENT AND THE COLLEGE ENVIRONMENT (3 CRS.)

Examines the impact of the college environment on both traditional and nontraditional students and provides in-depth understanding of the characteristics, attitudes, and developmental needs of those students. It also suggests methodology for identifying needs and assessing environmental characteristics. Prerequisite: *CNS560*.

CNS567 COUNSELING CHILDREN (3 CRS.)

Intense study of basic theoretical foundations and approaches in counseling children, including play therapy. Childhood psychological disorders are surveyed using the current edition of the *Diagnostic Statistical Manual of Mental Disorders*. Prerequisites: Completion of Phase I and *CNS573*.

CNS568 PROFESSIONAL ORIENTATION TO MENTAL HEALTH COUNSELING (3 CRS.)

Designed to provide a comprehensive overview of the rapidly evolving field of mental health counseling. Studies basic philosophy, principles and current trends in the provision of mental health counseling services. Students gain understanding of topics such as: treatment of psychopathology, diagnosis, direct counseling services, prevention and psychoeducational approaches, crisis counseling, and ethical and legal issues.

CNS573 THEORIES OF COUNSELING (3 CRS.)

Intensive study of basic concepts and theoretical foundations of counseling. Emphasis is on the student's ability to conceptualize client concerns, select appropriate counseling interventions, and apply the relevant theories to classroom

simulations. Prerequisite: CNS559 or concurrent registration with permission of instructor.

CNS578 PRE-PRACTICUM IN COUNSELING (3 CRS.)

Designed as an introduction to the practicum. The student's interview technique is developed through micro-counseling, both videotaped and directly observed. The interview situation includes other members of the class and volunteer undergraduate students. Recognition of the proper use of the various types of responses (content, feeling, etc.) is stressed. Prerequisite: CNS559 or concurrent registration.

CNS580 CLINICAL FIELD EXPERIENCE I (3 CRS.)

The culminating experience for all programs, the field experience sequence consists of six (6) semester hours and is the internship requirement of the SU counseling programs. Students must complete 300 clock hours for each field experience in a professional setting appropriate to their career interests, skills, and program of study. Site selection must be approved by adviser. Course is offered on a pass/fail basis. Prerequisites: Completion of Phases I and II, adviser's approval, attendance at orientation meeting the prior semester, pre-registration form, and candidacy. CNS589 is required to satisfy the six credits for field placement.

CNS581 COUNSELOR SUPERVISION (3 CRS.)

Provides experience in supervision of counselor trainees, including review of interview recordings; constructive critique of trainees, individually and in group settings; and reading and criticizing of written reports. Significant involvement with counselor trainees, if required, in order to experience a true supervisory and helping relationship. Prerequisites: Permission of the adviser and prior employment as a counselor. *Note: Restricted to students enrolled in the Supervisory Certificate Program through Educational Administration and Foundations Department.*

CNS585 PRACTICUM IN COUNSELING (3 CRS.)

Field-based assignment in an agency, school, or institutional setting providing supervised professional experiences. Students must accumulate a minimum of 150 clock hours at a site appropriate to their program of study during one academic semester. Students must have a site approved by their adviser prior to course registration. Prerequisites: A grade of B or higher in CNS578, permission of adviser, attendance at orientation meeting the prior semester, and pre-registration form.

CNS586 ADVANCED PRACTICUM IN COUNSELING (3-6 CRS.)

Extension of CNS585, permits student to gain greater specialized competencies in the same general setting. Prerequisites: CNS585, consent of adviser, attendance at orientation meeting the prior semester, and pre-registration form.

CNS587 RESEARCH SEMINAR IN COUNSELING (3 CRS.)

Presents the advanced student an opportunity to examine, evaluate, synthesize, and bring into final form previous learning and research to a consistent philosophical approach. Students are expected to address topics such as: race relations, women's concerns, counseling gay people, human sexuality, family counseling and/or other appropriate counseling concerns as addressed by recent research. Course is offered on a pass/fail basis. Prerequisite: CNS600.

CNS588 ADVANCED PSYCHOTHERAPEUTIC SKILLS (3 CRS.)

Designed to aid student in gaining experience and competency in the use of therapeutic interventions from a variety of theoretical modalities. Emphasis placed on understanding, experiencing, and applying each technique; the appropriateness of its application, its effect and side effects, and the theoretical concepts underlying the change process facilitated by the intervention. Prerequisites: Completion of Phase I and CNS573.

**CNS589 CLINICAL FIELD EXPERIENCE II
(3 CRS.)**

Continuation of CNS580, Clinical Field Experience I, placement. Students must register for this course in order to satisfy the six (6) credit hour field experience requirement. Students must complete 300 clock hours for each field experience in a professional setting appropriate to their career interests, skills, and program of study. Site selection must be approved by adviser. Course offered on a pass/fail basis. Prerequisites: Completion of *CNS580*, approval of adviser, and pre-registration form.

**CNS590 ADVANCED CLINICAL FIELD
EXPERIENCES (3 CRS.)**

Continuation of the CNS580/589 field experience. Course offered on a pass/fail basis. Prerequisites: Completion of *CNS580/589*, adviser's approval, and pre-registration form. Site selection must be approved by adviser.

**CNS593 THEORIES OF PERSONALITY AND
THEIR IMPLICATIONS FOR COUNSELING
(3 CRS.)**

Acquaints counselors with the more prominent theories of normal personality development and supporting research evidence, with consideration given to the process of intervention and change within the counselee.

CNS596 SELECTED TOPICS (1-3 CRS.)

CNS599 INDEPENDENT STUDY (3-6 CRS.)
Provides opportunities for students to pursue independent study designed to develop critical thinking and individual initiative through planned scholarly endeavor. The student, under the advisement of an assigned faculty member, engages in a study of a significant program not clearly a part of existing courses. Prerequisite: Permission of adviser.

CNS600 RESEARCH AND STATISTICS (3 CRS.)

Introduction to problems of structure and function of research in the counseling programs where attention is directed to the importance of individual differences, measurement of several variables, and the task of developmental understanding. Designed to develop competencies and explores empirical findings in both the production and consumption of current research. It considers experimental design, practical use of both descriptive and inferential statistics with application to measures of central tendency, variability, dispersion, correlation and tests of differences.

CNS609 INTERNSHIP (3 CRS.)

CNS612 THESIS I (3 CRS.)

CNS613 THESIS II (3 CRS.)

Criminal Justice (CRJ)

CRJ501 FOUNDATIONS OF JUSTICE (3 CRS.)
Examines the nature, application, and impact of various theoretical approaches, practices and assumptions regarding the function and operation of the criminal justice system.

**CRJ520 JUSTICE ADMINISTRATION AND
MANAGEMENT (3 CRS.)**
Studies bureaucracy and complex organizations with emphasis on the concepts and practices of the administration and management of agencies in the criminal justice system.

CRJ550 GRADUATE SEMINAR (3 CRS.)
Introduces graduate students to the basic concepts, principles, and issues involved in the development of drug control policy in the United States since the early 1700s and the profound impact these factors have had on the public perception of drug use and the manner in which the criminal justice system functions.

**CRJ560 THEORIES OF CRIME AND
DELINQUENCY (3 CRS.)**
Examines etiology of criminal behavior including the process of becoming a criminal,

patterns of criminal behavior, and social and individual consequences of crime and delinquency.

CRJ570 LEGAL TRENDS AND ISSUES (3 CRS.)
Explores in detail current trends and issues in law as they relate to the operation and management of the criminal and juvenile justice system.

CRJ580 JUVENILE JUSTICE SYSTEM (3 CRS.)
Examines the goals, organization, and operations of agencies and institutions that work with youthful offenders including current policies and proposals for their reform.

CRJ585 TREATMENT AND REHABILITATION (3 CRS.)
Examination and analysis of historical and contemporary correctional treatment and rehabilitation strategies, philosophies, ideologies, and developments relevant to correctional, organizational, and management policies and practices. Students critically focus on theoretical, practical and policy issues relating to treatment and rehabilitation programs provided to adult and juvenile offender populations.

CRJ590 JUSTICE POLICY ANALYSIS (3 CRS.)
Analysis of the process by which policy decisions in criminal justice are derived and implemented and their consequence on the criminal justice system.

CRJ593 INDEPENDENT STUDY (3 CRS.)
Opportunity for student to pursue in-depth study on a topic or issue of personal interest under the direction and guidance of a department faculty member. Prerequisite: *CRJ600*.

CRJ594 SELECTED TOPICS (3 CRS.)
Opportunity for the department to offer courses in areas of major interests not covered by regular course offerings.

CRJ595 PRACTICUM I (3 CRS.)
An original work done as a group or individual effort in an agency setting which results in a scholarly paper revolving around an issue

germane to the participating agency. Significant involvement with the agency is necessary. The department must approve the selection of the agency and the issue. Limited to "weekend" students.

CRJ597 PRACTICUM II (3 CRS.)
An original work done as a group or individual effort in an agency setting which results in a scholarly paper revolving around an issue germane to the participating agency. Significant involvement with the agency is necessary. The department must approve the selection of the agency and the issue. Limited to "weekend" students.

CRJ600 RESEARCH METHODS (3 CRS.)
Survey of empirical research methods and their application in the field of criminal justice; includes research design, theories of sampling, data collection strategies and analysis of findings.

CRJ610 QUANTITATIVE ANALYSIS (3 CRS.)
Examines the relationship and application of statistical techniques to theory building and concept construction. Includes an overview of statistical methods with an emphasis on criminal justice. Prerequisite: *CRJ600*.

CRJ612 THESIS I (3 CRS.)

CRJ613 THESIS II (3 CRS.)

CRJ617 INTERNSHIP I (3 CRS.)
Provides an opportunity to apply classroom (theoretical) learning in an agency setting; encourages the development of a professional identity and an appropriate set of professional skills and values; helps students identify or clarify their career interests; provides agencies with an opportunity to observe and evaluate potential staff; and provides students with the opportunity to conduct participant research in a justice agency. Student will encounter a variety of real world situations in which previously learned skills must be applied under the supervision of a practitioner. A full range of

criminal justice agencies will be available for student selection.

CRJ618 INTERNSHIP II (3 CRS.)

Provides an opportunity to apply classroom (theoretical) learning in an agency setting; encourages the development of a professional identity and an appropriate set of professional skills and values; helps students identify or clarify their career interests; provides agencies with an opportunity to observe and evaluate potential staff; and provides students with the opportunity to conduct participant research in a justice agency. Student will encounter a variety of real world situations in which previously learned skills must be applied under the supervision of a practitioner. A full range of criminal justice agencies will be available for student selection.

CRJ635 RESTORATIVE JUSTICE (3 CRS.)

Examines the elements of the Restorative Justice Model and its application for criminal justice policy and practice. The restorative justice model features classical criminology, victimology, and cognitive therapy. Instructs students on three elements of the BARJ Model that includes community protection, youth accountability, and competency development.

Early Childhood (ECH)

ECH410 PHYSICAL, MOTOR, AND SENSORY DEVELOPMENT IN EARLY CHILDHOOD (3 CRS.)

Examines physical, motor, and sensory development of typically and atypically developing young children, birth through age eight years. Child health and wellness concerns will be included. Developmental information will be applied to best practices in early childhood education and early intervention settings. Field experiences are required.

ECH460 FAMILY SCHOOL AND COMMUNITY PARTNERSHIPS (3 CRS.)

Surveys current and continuing issues in early childhood education. Includes a focus on child care, pre-primary programs and parent involvement, implementing a parent involvement project, and a individual study of a particular development area and/or processes. Prerequisite: A course in child development.

ECH461 ASSESSMENT IN EARLY CHILDHOOD (3 CRS.)

Acquaints students with guidelines and techniques for providing for children's individual needs through implementing and interpreting developmentally appropriate evaluation measures; and through designing and monitoring individualized learning programs. Focuses on application of these techniques during accompanying practicum experiences with developmentally typical and atypical children in early childhood programs. Prerequisite: A course in child development.

ECH462 PRACTICUM IN EARLY CHILDHOOD (3 CRS.)

Supervised observation and participation in an early childhood (pre-primary) setting for at least 150 clock hours. Experiences in planning, implementing, and assessing education for young children and families are required.

ECH470 LANGUAGE DEVELOPMENT, LITERACY, AND PLAY IN EARLY CHILDHOOD EDUCATION (3 CRS.)

Prepares early childhood teacher candidates to understand the existing relationships among language development, early literacy development, and play behaviors in young children from birth through eight years. Application will be made to early childhood education and early intervention settings. Field experiences in an assigned practicum setting will be required. Prerequisites: *TCH160*, *ECH200*, *ECH330*, and senior status.

ECH510 INCLUDING CHILDREN WITH SPECIAL NEEDS IN EARLY CHILDHOOD EDUCATION (3 CRS.)

Presents current research about early childhood inclusion models and information about developing classroom-based services for young children with disabilities. Attention given to family-centered practice, collaboration with other disciplines, developmentally appropriate assessment, best practices for instruction, and preparing children for transition to new learning environments.

ECH520 SOCIAL AND EMOTIONAL DEVELOPMENT IN EARLY CHILDHOOD (3 CRS.)

Examines current research and theory about social and emotional development in young children, birth through eight years. Emphasis is on classroom practices, including instruction and discipline, which facilitate healthy social and emotional development in young children. Field experiences are required.

ECH530 COGNITIVE AND LANGUAGE DEVELOPMENT IN EARLY CHILDHOOD EDUCATION (3 CRS.)

Examines current research and theory about cognitive and language development in young children, birth through eight years. Emphasis is on classroom practices, including instruction and discipline, which facilitate cognitive and language development in young children. Field experiences are required.

ECH540 FAMILIES AND EARLY CHILDHOOD EDUCATION (3 CRS.)

Examines theory and research from the area of family studies. Emphasis is on characteristics of families with young children and how early childhood practitioners can best apply this information in their work settings. Field assignments are required.

ECH563 LEADERSHIP IN EARLY CHILDHOOD EDUCATION (3 CRS.)

Designed to prepare personnel to function in the role of administrator of early childhood programs. Examines types of early childhood

programs and their underlying rationales, ways of establishing early childhood programs, methods of funding and financing programs, and considers the coordinating role of the administrator in working with other personnel. Prerequisite: Permission of instructor.

ECH577 EARLY CHILDHOOD CURRICULUM AND ASSESSMENT (3 CRS.)

Investigates contemporary curricular issues, model programs, and appropriate forms of assessment of young children. Curriculum, teaching strategies, and program organization and evaluation decisions are analyzed from the viewpoints of current theory and research.

Earth Science (ESS)

ESS404 APPLIED METEOROLOGY AND CLIMATOLOGY (3 CRS.)

Intensive study of the interaction between various atmospheric parameters and the natural or human-modified surfaces of the earth centered on the applied nature of the atmosphere including discussion of urban, human, agricultural, architectural, and commercial aspects of society. Computer simulations and mapping are utilized to enhance understanding, and each student carries out a field study on a particular problem of atmospheric interest. Prerequisite: *ESS111 or ESS355*

ESS413 MINERAL AND ROCK RESOURCES (3 CRS.)

Deals with metallic ore deposits such as iron, ferroalloys and nonferrous metals, mineral fuels, and other selected minerals of economic significance. Emphasis on geologic occurrence and mode of origin, geographical distribution, and importance to humans.

ESS442 ENVIRONMENTAL GEOLOGY (3 CRS.)

Deals with relationships between man and the geological habitat; it is concerned with problems people have in using the earth and the reaction of the earth to that use in both a rural and urban setting. Stress is placed on

developing problem-solving skills in collecting, recording and interpreting data through field investigations and simulation techniques. Prerequisite: *ESS110*.

ESS490 SELECTED TOPICS (1-3 CRS.)

ESS594 SELECTED TOPICS (1-3 CRS.)

ESS599 INDEPENDENT STUDY (3 CRS.)

Economics (ECO)

ECO484 MATHEMATICAL ECONOMICS (3 CRS.)

Covers the specification of economic models in mathematical terms. Applications of mathematical analysis to both macroeconomic and microeconomic concepts are presented. Prerequisites: *ECN101* and *ECN102* or *ECN501*; and *MAT181* or *MAT211* or *MGS530*.

ECO485 ECONOMETRICS (3 CRS.)

Covers the statistical estimation and testing of economic models. Topics include specification of models, data problems, and estimation problems encountered in the study of economics, such as serial correlation, heteroscedasticity, autoregression, lag models and identification. Prerequisites: *ECN101* and *ECN102* or *ECN501*; and *MGS226* or *MGS531*.

ECO490 SELECTED TOPICS (3 CRS.)

Education (EDU)

EDU410 ENVIRONMENTAL EDUCATION PRACTICUM (3 CRS.)

Affords students opportunity to apply knowledge gained in previous courses and other experiences to a practical situation. Includes activities specifically designed to develop and evaluate skills students need to create a course of study for teaching environmental education in the elementary and secondary schools. An integral part is working with both elementary and secondary students in the application of both skills and knowledge.

Prerequisite: Approval of coordinator of environmental education.

EDU420 MICROCOMPUTERS IN THE CLASSROOM (3 CRS.)

Provides basic knowledge of the evolution and operation of a microcomputer system. A variety of educational applications are reviewed and analyzed for instructional contributions. Using recommended evaluation procedures, software reviewed and discussed as to classroom utilization.

EDU495 STUDENT TEACHING AND PROFESSIONAL PRACTICUM (3 CRS.)

Professional site-based experience provides a full semester of guided teaching in the K-12 schools during which the student, under the direction of a qualified cooperating teacher and university supervisor, takes increasing responsibility for planning and directing the learning experience of a specific group(s) of students.

EDU501 MATHEMATICS CURRICULA IN THE SECONDARY SCHOOL (3 CRS.)

Study of wide range of mathematics curricula, including those developed for the non-college intending as well as for the college intending. General curriculum problems and relevant research is studied. Implications for curriculum of national standards for school mathematics and the role of technology will be considered.

EDU502 STRATEGIES AND TACTICS IN TEACHING MATHEMATICS (3 CRS.)

Utilizes the reflective model in solving pedagogical problems which arise in mathematics classes, participants solve their own problem(s) using resources such as the library, other students, and the instructor. Attention is given to innovative techniques in mathematics education, the role of technology, and problem-solving processes. A core of teaching techniques consistent with national standards for school mathematics are studied.

Educational Leadership and Policy (ELP)

ELP490 SELECTED TOPICS (1-3 CRS.)

ELP500 GENERAL SCHOOL ADMINISTRATION (3 CRS.)

Introductory study of the organization and administration of American public education for persons interested in pursuing a professional career in educational administration. A basic understanding of educational leadership is developed through an integration of theory, knowledge, and actual practice. Course is designed for teachers, school board members, and other interested lay citizens who wish to know more about educational administration.

ELP501 CURRICULUM FOR SCHOOL LEADERS (K-12) (3 CRS.)

Addresses the changing curriculum in the American public schools (grades K-12). Topics include the history and status of recent curriculum projects with the controversy, problems, and issues involved. Designed for specialists and generalists in education, particularly principals, counseling personnel, and subject area specialists. These individuals must be knowledgeable about curricular goals and activities in order to perceive interrelationships among various disciplines, evaluate the effectiveness of the curriculum, and to direct meaningful programs of curricular improvement. Through course experiences, graduate students will be knowledgeable about innovations, strategic planning, issues, trends, federal and state regulations in order to exert leadership in articulating curricular reform to school boards, parents, and professional staff members. Prerequisite: Teaching and/or counseling experience, or permission of adviser.

ELP503 EDUCATIONAL FOUNDATIONS: CONTEMPORARY ISSUES (3 CRS.)

Comprehensive and contemporary offering designed to explore the connections among the present-day complexities of schools and the historical, philosophical, and sociological backgrounds from which they emerged. In addition, examines the reform and restructuring agendas of the past two decades, critically exploring proposed solutions to the most pressing educational problems facing society in the 21st century.

ELP505 COMPUTERS AND THE SCHOOL ADMINISTRATOR (3 CRS.)

Provides a review of different levels of computer literacy, the administrator's role in development of staff literacy and making knowledgeable decisions about board policies regarding acquisition and utilization of computers. Activities require students to implement, via commercial application programs, computerization of various administrative responsibilities such as scheduling, budgeting, record reporting, files, attendance, etc. Hands-on experiences with these packages provided.

ELP506-507 INSTRUCTIONAL SUPERVISION: A SCHOOL-UNIVERSITY PARTNERSHIP (2 CRS. EACH)

Enables in-service teachers to consistently and effectively develop their supervisory skills for working closely as cooperating teachers with student teachers from Shippensburg University, as mentors assisting novices entering the profession, and as peer coaches collaborating with one another for professional development. Prerequisites: Teacher certification and a minimum of two years of teaching.

ELP508 GRADUATE SEMINAR IN INSTRUCTIONAL STRATEGIES (3 CRS.)

Comprehensive study and systematic examination of classroom instructional strategies. It is designed to involve teachers in the process of analyzing and improving the effectiveness of their methods. Teachers

develop and cultivate alternative instructional strategies on the basis of their analyses through the utilization of various instruments and programs, complemented by the process of microteaching.

ELP510 SPECIAL EDUCATION LAW (3 CRS.)
Provides a comprehensive and current overview of the major federal laws and judicial interpretations of those laws that apply to the education of children with disabilities. Course includes discussions of inclusion, effective accommodations, IEPs, discipline, equal protection, and procedural due process. It also examines the six principles of the Individuals with Disabilities Act and Chapters 14, 15, and 16 of the Pennsylvania School Code. Course helps students understand what the law requires so that they will become effective educational leaders capable of making appropriate decisions that comply with these laws.

ELP511 PHILOSOPHICAL FOUNDATIONS OF EDUCATION (3 CRS.)
Survey of major European and American philosophies which have influenced education and outstanding philosophy schools which have affected education in relationship to changing patterns of American schools with respect to procedures and curricular materials.

ELP512 THE CURRICULUM IN THE MODERN SECONDARY SCHOOL (3 CRS.)
Deals with the changing curriculum of the American secondary school. Topics include the history and status of new curriculum projects with the controversy, problems, and issues involved.

ELP513 SOCIOLOGICAL FOUNDATIONS OF EDUCATION (3 CRS.)
Attempts an analysis and understanding of social factors in the socialization of the individual and the process of education. Begins with the context of culture and studies the structure and functioning of the social system

in those areas which particularly seem to impinge upon the specialization process and which particularly affect the school and the child. Considers the institutions which are of fundamental importance in socialization and education. Makes use of significant sociological data and principles which are applicable to educational practice and are indicative of what educational policies and practices might be.

ELP530 THE INSTRUCTIONAL LEADER IN THE MIDDLE SCHOOL (3 CRS.)
Comprehensive study and systematic examination of educational programs designed to provide a transition between elementary school and secondary education. Special emphasis on the role of the middle school instructional leader in the following areas: (1) specific competencies in the unique physiological, psychological, socio-logical, and emotional characteristics of pre- and early adolescent children; (2) specific competencies in the development of appropriate curriculum and instructional programs designed to meet the needs of pre- and early adolescent children; (3) specific administrative and supervisory competencies in working with teachers, staff, community support personnel, and parents in the operation of educational programs for pre- and early adolescent children; and (4) specific competencies in research relative to existing junior high school/middle school educational programs in Pennsylvania and the nation.

ELP545 THE PRINCIPALSHIP (3 CRS.)
Introduces the future administrator to the principles and practices of administration as these relate to individual school units and the principal's function as an educator, professional leader, supervisor, master planner, business executive, community relations agent, and educational diagnostician. Focuses on experiences which relate the theory presented in class to simulated situations a principal may (and likely will) encounter. Prerequisite: master's degree in educational administration

or permission of student's adviser and student's instructor.

ELP569 SEMINAR: DIVERSITY IN EDUCATION (3 CRS.)

Increases the awareness of administrators, educators, and related school personnel to the problems, challenges, and issues faced by various cultural minority students as they strive to become incorporated in their respective schools within the mainstream of American society. Stresses the various strategies, methods, and techniques educators need to know to write and execute administrative policies and practices and to design and implement curriculum and teaching strategies that reflect the ethnic diversity and cultural minorities found within their respective buildings and school districts. Emphasis placed on the Black and Hispanic populations.

ELP574 FINANCE AND THE SCHOOL PRINCIPAL (3 CRS.)

Designed to provide future and practicing elementary and secondary level building administrators with the knowledge necessary to understand and manage the fiscal responsibilities of an administrator working at the building level. As site-based management becomes a reality in schools, building level administrators face greater responsibility and accountability in this area. Covers the practical aspects of budget development, accounting procedures, building level fiscal policies, activities fund and athletics fund management, purchasing procedures, computer techniques to manage fiscal affairs, and management approaches such as site-based management and total quality management as it applies to building level fiscal administration. Field-based experiences involving interaction with practicing administrators will be an integral part of the course. Prerequisites: *ELP500* and *ELP505*.

ELP580 STATISTICAL METHODS IN EDUCATION (3 CRS.)

Designed to enable the student to interpret the scientific literature in education and psychology and to make the computations involved in the use of tests and original investigations that require statistical technique. Measures of central tendency, variability, and correlations are included.

ELP591 SCHOOL LAW (3 CRS.)

Studies the major areas of school law with particular emphasis on the school code of Pennsylvania. Deals with such topics as: tort liability of school officials and teachers, the legal structure of public education, control of pupil conduct, desegregation, church-state relations and education, teachers' rights and responsibilities, pupils' rights, professional negotiations, the courts and the curriculum and the uses of school property and money. Prerequisites: *ELP500* and *ELP592*.

ELP592 GENERAL SCHOOL SUPERVISION (3 CRS.)

Designed for principals, supervisors, department chairs and/or future cooperating teachers. Main thrust is to develop those supervisory concepts and skills necessary to evaluate the instructional act and to implement remedial activities. Majority of class meetings are work sessions where future supervisors view video tapes of the instructional act which serve as a point of reference for writing critiques, group discussions, and simulated supervisor-teacher conferences.

ELP594 SELECTED TOPICS (1-3 CRS.)

ELP597 PRACTICUM IN EDUCATIONAL ADMINISTRATION (3 CRS.)

Provides experiences designed to develop and enhance the overall effectiveness of the would-be administrators' competencies. Practicum is an individually prescribed program based upon the stated competencies of the program and the past experiences of the student. It consists of planned experiences and emphasizes direct involvement in school administration at sites mutually acceptable to the student and the

adviser of the practicum experience. The practicum experience provides the student with opportunities to bridge the gap between theory and practice and to realize first-hand involvement in the administration of schools. Prerequisites: *ELP500, ELP592, ELP501, and ELP545.*

ELP598 ADVANCED PRACTICUM IN EDUCATIONAL ADMINISTRATION (3 CRS.)

Extends the planned administrative experiences in a school setting. Student is required to serve a portion of the practicum in more than one district in order to assure a wide range of practicum experiences. Prerequisites: *ELP597, ELP591, and ELP545.*

ELP600 RESEARCH FOR SCHOOL ADMINISTRATORS (3 CRS.)

Stresses research designs and methods, the terminology of research, the use of centers for research collection and dissemination for school administrators and emphasizes skills in designing and evaluating research studies. Prerequisite: *ELP580.*

ELP601-604 PRACTICUM IN CENTRAL OFFICE ADMINISTRATION (3-6 CRS.)

Designed to bridge the gap from theory to practice. Student becomes directly involved in the operation of the central office and will perform the functions and duties of central office personnel completing several projects throughout the field experience. A synopsis of experiences is shared in a seminar approach with the university adviser and other practicum students. College adviser performs periodic on-site visits to assess the growth and development of the intern. Prerequisites: *ELP612 and ELP614.*

ELP611 THE LEGAL ASPECTS OF PUBLIC SCHOOL ADMINISTRATION (3 CRS.)

Will identify, assess, and appraise the nature and function of the law and legal process as it impacts and applies to the administration of school districts and schools. Topics provide an in-depth examination of legal issues associated with the central administrative office and specifically with the position of superintendent

of schools. Emphasis on a pragmatic approach of administrative survival in an increasingly litigious society. Prerequisite: *ELP591* or approval of department chair.

ELP612 EDUCATIONAL LEADERSHIP, POLICY AND GOVERNANCE (3 CRS.)

Examines the theories of leadership and organization and their application to administrative practices. Sociological, psychological, and organizational models will be described and analyzed to gain insight into administrative practices and processes such as decision making, group motivation, goal setting, delegating, conflict resolution, and site-based management. Extensive research of current practices will be required.

Additionally, course has been designed to target current issues and problematic situations facing the central office administrator in today's dynamic system of public education.

ELP613 EDUCATIONAL FACILITIES AND PLANT MANAGEMENT (3 CRS.)

Designed for students in the Superintendent's Letter of Eligibility Program and for practicing educational administrators who want to update skills in educational facilities and plant management. Relates educational program to facilities planning and development; provides an opportunity for students to interact with professionals from a variety of disciplines related to planning and development of educational facilities, relates local planning to Pennsylvania Department of Education requirements and regulations; and provides field-based work in contemporary facility planning, development, and maintenance. Prerequisites: Admission to the Superintendent's Letter of Eligibility program or *ELP500, ELP501, ELP545, and ELP591.*

ELP614 BUSINESS AND FINANCE IN PUBLIC EDUCATION (3 CRS.)

Identify and assess methods of financing public education. Addresses the complex business processes of educational planning and financing for staff, instructional process, and

physical plant. Included for examination are: a historical review of school finance; public education's funding sources, including a study of federal and state financing; the nature of taxing authorities; the subsidy system; grants and entitlements to public education; and future trends and options in creative financial planning. The business operation of the public school is examined. An in-depth investigation of budget preparation, long-and short-term investing, bonding and underwriting, tax collecting, and construction planning will be addressed. Prerequisite: *ELP500*.

ELP615 SCHOOL AND COMMUNITY RELATIONS (3 CRS.)

Viewing the school as a dynamic cultural entity interacting with external supra-systems, the graduate student assesses the school's interdependency on the community and its many publics. Importance of a sound public relations program for the school, and need to communicate and understand the community is stressed. The student designs a program to enhance effective lines of communication between the school and its publics.

ELP616 NEGOTIATIONS AND PERSONNEL MANAGEMENT IN PUBLIC EDUCATION (3 CRS.)

Designed to provide a comprehensive overview of personnel theory and function from the perspective of central office administration. Topics and issues explored include an in-depth treatment of contract negotiations, grievance procedures, mediation and arbitration for both classified and professional employees. Theories and practices in staff recruitment, selection, assignment, orientation, evaluation, educational development, and retrenchment are examined. Personnel management theory is viewed from a holistic approach. Prerequisites: *ELP500* and *ELP545*.

ELP618 CURRICULUM THEORY AND DEVELOPMENT (3 CRS.)

Designed for administrators who are/will be leaders in the curriculum area, and viewed from the macro-curriculum perspective instead of the micro-curriculum perspective. Philosophies of education and their influences on basic education are studied. Current and recent trends in education are analyzed and compared to basic educational philosophies. Major thrust is management, development, and evaluation of the total curriculum. Recent research on change and effective schools examined and students encouraged to develop a rationale for administrative action. Roles of supervisors, principals, and central office personnel examined as they relate to curriculum management, development, and evaluation.

ELP619 LEADERSHIP FOR PUPIL SERVICES (3 CRS.)

Designed for students in administrator certification programs who want to develop skills necessary to provide leadership for pupil services programs in school organizations. Areas of focus include: organization and development of pupil services; team approaches for meeting individual student needs in inclusive learning environments; underlying assumptions of pupil services programs; supervision and staffing; financing; and crisis prevention and response management. Attention will be given to roles of building principals and central office staff in pupil services programs. Community support systems will be addressed with regard to the manner in which they provide assistance to and interact with students, parents, and schools (e.g., juvenile justice, public health, mental health, social services, employers).

ELP620 THESIS (3 CRS.)

Elective course offered within the master's program in elementary/middle or middle/secondary administration. Students enrolled in *ELP600* Research for School Administrators select a committee, a chair, and complete the proposal (the first three chapters of the thesis), including human subjects

review. During *ELP620* Thesis, student defends the proposal begun in *ELP600*, gathers data, completes the writing of the thesis, and defends completed thesis. For students with an interest in research and those who expect to pursue a doctorate.

English (ENG)

ENG420 TEACHING WRITING (3 CRS.)

Studies developmental theories of writing and a variety of methodologies for teaching writing, especially methodologies for teaching Basic Writing. Presents aims, modes, and varieties of written discourse. Prepares students to teach writing at all levels, K-12, and to teach writing across the curriculum. Offers frequent writing exercises for the students, using the assumption of the Bay Area Model that good writing teachers are, first of all, practicing writers themselves. Prerequisite: Junior standing or permission of the department.

ENG426 ADOLESCENT LITERATURE (3 CRS.)

Designed to acquaint secondary English pre-service teachers with award-winning literature and teaching resources to use with adolescents in grades 7-12. Topics include examination of the psychological and developmental needs of the adolescent; how to accommodate variety of student abilities and interests within a classroom; and how to incorporate adolescent literature in the secondary English curriculum. Representative authors include Blume, Hinton, Cormier, Lowry, and Paterson. Expect to write at least one analytical paper and develop materials for instructional purposes.

ENG428 ADVANCED CREATIVE WRITING (3 CRS.)

Provides the opportunity to develop further abilities to write original publishable poetry, fiction, nonfiction, or drama. Course is taught as a workshop; individual tutorials will also be arranged for student writers. In-depth readings and lectures will cover recent developments, both theoretical and practical, in these genres.

Each student should expect to write and revise at least two or more short works of fiction or nonfiction, 15 pages of poetry or one full-length or two or more one-act plays.

Prerequisite: One course in the chosen genre: *ENG209*, *ENG307*, or *ENG308*; or permission of instructor.

ENG438 TECHNICAL PROFESSIONAL WRITING II (3 CRS.)

Prepares students to incorporate theories of technical and professional communication into their writing practice. Students use argumentative rhetorical strategies, analyze audience needs, and consider ethical implications as they prepare advanced projects in technical writing. The writing process emphasizes critical evaluation of information, project design and implementation, and organizational skills for collaborative projects. Students complete advanced assignments, such as writing a grant proposal, creating online user documentation, preparing a research report in a hyperlinked format and making a persuasive presentation using computer-generated graphics. Course serves as preparation for an internship in technical or professional writing and will be a significant asset for students whose employment goals require strong writing skills and the ability to lead and to coordinate projects. Prerequisite: *ENG238*.

ENG464 SEMINAR IN A MAJOR AUTHOR (3 CRS.)

Provides an in-depth analysis of representative works by a single author and familiarizes students with relevant secondary sources associated with the author. Particular author varies according to the instructor. Students should expect to write at least one lengthy documented paper dealing with works covered in the class. Prerequisite: junior standing or permission of the department.

ENG465 SEMINAR IN CREATIVE NONFICTION (3 CRS.)

Examines prose that claims to be a factual representation of the truth in a narrative form. Genres of nonfiction prose that may be studied include autobiography, memoir, biography, history, documentary writing, essay, travel writing, nature writing, and writing about culture. Students will read works by more than one author and course may emphasize determining characteristics of the genre rather than the chronological period in which it appears. Students will write at least one lengthy analytic paper. Prerequisite: junior standing or permission of the department.

ENG466 SEMINAR IN LITERARY THEORY (3 CRS.)

Provides students with in-depth study of one or more theoretical perspectives in literary criticism. Particular theories and authors studied varies according to the instructor. Course may focus on a theoretical movement (e.g., deconstruction, reader-response) or the works of one or more important theorists (e.g., Fredric Jameson, Stanley Fish). It may also be organized around a particular set of issues or concerns relevant to theories of literary criticism (e.g., race in postmodern theory; the meaning of the author in literary theory). Students will write at least one lengthy analytic paper. Prerequisite: junior standing or permission of the department.

ENG467 SEMINAR IN DRAMA (3 CRS.)

Examines drama's fundamental components — plot, character, and what Aristotle calls "thought" (every effect produced in speech) — within the spatial context of a stage. Concerned, in particular, with performance of drama. Attendance at relevant area stage performances and viewing films and video tapes augment textual study. Requires thoughtful critical reading and critical writing beyond requirements of lower level courses. Both activities done in terms of a non-chronological cluster of significant dramatists, e.g., Marlowe, Ibsen, O'Neill, which may vary from instructor to instructor. Enables students to understand in-depth the components of

drama and their various utilizations, regardless of a dramatist's time period or individual style. Expect to write at least one lengthy analytic paper dealing with one or more of the components in a work or works read for the seminar.

ENG468 SEMINAR IN FICTION (3 CRS.)

Examines fiction's fundamental components — plot, character, and narrative point-of-view. Requires thoughtful critical reading and critical writing beyond requirements of lower level courses. Both activities done in terms of non-chronological cluster of significant fiction writers, e.g., Sterne, Bronte, Faulkner, which may vary from instructor to instructor. Enables students to understand in-depth the components of fiction and their various utilizations, regardless of a fiction writer's time period or individual style. Expect to write at least one lengthy analytic paper dealing with one or more of the components in a work or works read for the seminar.

ENG469 SEMINAR IN POETRY (3 CRS.)

Examines poetry's fundamental components — image, sound, and the interplay of concepts. Requires thoughtful critical reading and critical writing beyond requirements of lower level courses. Both activities done in terms of a non-chronological cluster of significant poets, e.g., Milton, Tennyson, Moore, which may vary from instructor to instructor. Enables students to understand in-depth the components and their various utilizations, regardless of a poet's time period or individual style. Expect to write at least one lengthy analytic paper dealing with one or more of the components in a work or works read for the seminar.

ENG490 SELECTED TOPICS IN ENGLISH (1-3 CRS.)

ENG505 SEMINAR IN POETRY (3 CRS.)

Provides in-service teachers and certification students with advanced study of poetry and poetics. Course may focus on a movement or school of thought (e.g. the Romantics, the Harlem Renaissance), an historical period, the poetry of a defined social group (e.g. Hispanic American poetry, African women's poetry),

and/or a thematic concern. Helps teachers understand current critical and theoretical approaches to poetry. Specific topic will vary according to instructor.

ENG506 SEMINAR IN FICTION (3 CRS.)

Provides in-service teachers and certification students with advanced study of fiction. Course may focus on an historical period (e.g. 19th-century novel, short fiction of the 1940s), a movement or school of thought (e.g. modern novel, postmodern narratives), the fiction of a socially defined group (African-American novels, Native-American narrative), and/or a thematic concern. Helps teachers understand current critical and theoretical approaches to fiction. Specific topic will vary according to instructor.

ENG507 SEMINAR IN DRAMA/FILM (3 CRS.)

Provides in-service teachers and certification students with advanced study of drama and/or film. Course may focus on an historical period (e.g. Elizabethan tragedy, modernist drama), a movement or school of thought (e.g. French New Wave cinema), the drama and/or films of a socially defined group (African-American cinema, gay/lesbian theater), a particular genre (e.g. tragedy, film noir), and/or a thematic concern. Helps teachers understand current critical and theoretical approaches to drama and/or film. Specific topic will vary according to instructor.

ENG511 SEMINAR IN CULTURAL STUDIES (3 CRS.)

Examines textual media (literature, film, etc.) in relation to other cultural practices and to social and historical structures. Might involve, for example, studies of film noir in relation to the postwar anticommunist hysteria; race in Renaissance literature and the rise of colonialist economy; gay “camp” style, postmodern poetics, and performance art. Introduces students to important theories and methodologies of cultural study and relates them to study of literary texts. One or more

critical papers required. Specific content varies according to instructor. Prerequisite: *ENG500*.

ENG512 SEMINAR IN COMPOSITION AND RHETORIC (3 CRS.)

Introduces graduate students to the field of composition and rhetoric, the area of English studies specifically concerned with methods, implications, and challenges of teaching writing. Depending on the instructor and the interests of the students, course may focus more or less on the following areas: historical contexts in classical rhetoric, such as the revival of Sophistic rhetoric; current theories as applied in composition studies, such as social constructionism; major movements in composition pedagogy, such as collaborative writing or computers and composition. One or more researched essays and class presentations required. Prerequisite: *ENG500*.

ENG515 SEMINAR IN AMERICAN LITERATURE (3 CRS.)

Provides in-service teachers and certification students with advanced study of American literature. Course may focus on an historical period (e.g. the American Renaissance, Realism, Naturalism), a movement or school of thought (e.g. American Transcendentalism, the Imagist poets), a particular genre (e.g. the novel, American drama), a socially defined group (e.g. slave narratives, Latino/a novels), and/or a thematic concern. Helps teachers understand current critical and theoretical approaches to fiction. Specific topic will vary according to instructor.

ENG516 SEMINAR IN BRITISH LITERATURE (3 CRS.)

Provides in-service teachers and certification students with advanced study of British literature. Course may focus on an historical period (e.g. the Renaissance, the Victorian Age), a movement or school of thought (e.g. *fin de siècle* aestheticism, the Bloomsbury group), a particular genre (e.g. the lyric, the novel), a socially defined group (e.g. working class fiction, black British poetry), and/or a

thematic concern. Helps teachers understand current critical and theoretical approaches to fiction. Specific topic will vary according to instructor.

**ENG517 SEMINAR IN WORLD LITERATURE
(3 CRS.)**

Provides in-service teachers and certification students with advanced study of literature in a global context. Course may focus on a specific national and/or regional literature (e.g. Indian fiction, Central American poetry), a transnational movement (e.g. postcolonialism, surrealism), a genre in global contexts (e.g. drama in Europe, poetry of the black Atlantic), a historical period (e.g. European literature of the fin de siecle, 20th century African novel), and/or a thematic concern.

**ENG518 SEMINAR IN MULTICULTURAL
LITERATURE (3 CRS.)**

Provides in-service teachers and certification students with advanced study of American literature in a multicultural context. At least two historically under-represented social groups will be represented by the authors studied. Course may focus on a genre (e.g. minority American poetry), a historical period (e.g. minority American literature in the postbellum, Native American and Chicano poetry of the Vietnam era), and/or a thematic concern. Helps teachers understand current critical and theoretical approaches to the cultural diversity of American literature. Specific topic will vary according to instructor.

**ENG525 SEMINAR IN TEACHING
ENGLISH/LANGUAGE ARTS (3 CRS.)**

Provides in-service teachers and certification students with current research and methodology for teaching the English/language arts. Course gives students the opportunity to explore topics such as the student-centered literature class, theories of the reader-response criticism as they apply to the classroom, incarnations of the writing process, reading/writing workshop, trends in

assessment, technology in the English classroom, and other subjects as appropriate.

**ENG530 SEMINAR IN CREATIVE WRITING
(3 CRS.)**

For graduate students who wish to develop their skills in writing original fiction, poetry, or drama, taught on a workshop basis. Students present in-progress portions of their work in class and take part in critical discussion based on the presentations of others. Whereas the emphasis is upon the production of substantial work in any one of these genres, the instructor makes directed reading assignments. Fiction writers should expect to complete at least two short stories or a novel chapter; poets should expect to complete a portfolio of at least 12 pages of poetry; playwrights should expect to complete two one-act plays or a full-length (three or more acts) play.

Finance (FIN)

**FIN405 REAL ESTATE APPRAISAL AND
INVESTMENT ANALYSIS (3 CRS.)**

Basic course in real estate appraisal stressing techniques of appraisal, investment analysis, and the valuation theory underlying these methodologies. Practical application in appraising part of the course. Prerequisite: *FIN340* or permission of department chair.

FIN414 BANK MANAGEMENT (3 CRS.)

Deals with the regulatory and managerial environment within which the bank manager operates. Concerned with the regulatory framework which controls the balance sheet policies of a bank as well as branching and merger activity. Other selected advanced topics of bank management, such as the management of deposits and capital adequacy, the bank's balance sheet, assets and liquidity, are addressed. Prerequisite: *FIN314* or permission of department chair.

**FIN425 GLOBAL FINANCIAL MANAGEMENT
(3 CRS.)**

Studies on the international environment, the foreign exchange risk management, the

investment decision, the financing decision, and management of ongoing business operations in the global settings. Emphasis placed on the analysis and evaluation of the investment decision, financial decision, and operational and financial risk in foreign countries. Prerequisite: *FIN311* and *INM200* or permission of department chair.

FIN442 DERIVATIVES MARKETS (3 CRS.)

Broad overview of different types of financial derivatives (forwards, futures, options, options on futures, and swaps), while focusing on the principles that determine market prices. To integrate the understanding of these instruments, the discussion emphasizes the relationships among futures, options, and swaps. Emphasizes the application of financial derivatives as risk management tools, not as instruments of speculation. Prerequisite: *FIN312* or permission of department chair.

French (FRN)

FRN400 SEMINAR: ADVANCED STUDIES IN FRENCH LANGUAGE AND LITERATURE (3 CRS.)

Detailed examination of specific aspects of French literature authors, genres, literary and philosophic schools, or linguistic problems such as translation and dialects. Seminar may be taken more than once provided a specific topic is not repeated. Prerequisite: permission of instructor.

FRN490 SELECTED TOPICS (3 CRS.)

Geography (GEO)

GEO401 GEOGRAPHY OF TOURISM (3 CRS.)

Study of the spatial aspects of the rapidly expanding tourist industry. Global and national patterns of tourism analyzed in view of their environmental, political, economic, and social significance.

GEO402 ENVIRONMENTAL HEALTH (3 CRS.)

Introduces student to a geographical approach in the analysis of problems regarding

environmental health. Dynamic interaction between the total person and the total environment (physical, biological, cultural, economic) lie at the core of geography, a discipline that integrates natural and social sciences. Consideration of such interactions is essential for an understanding of the changes that occur in the distribution of health and disease, when, for instance the environment is altered, or human lifestyles undergo substantial modification.

GEO403 NATURAL HAZARDS AND HOSTILE ENVIRONMENTS (3 CRS.)

Concerned with: (1) the scientific causes, classifications and effects of geologic, climatic and hydrologic hazards; (2) the cultural impact and socioeconomic adjustments relating to these natural hazards and, (3) application and utilization of scientific and technological strategies for assessing, controlling, and preventing natural disasters. Prerequisite: 12 hours of geography/earth science courses.

GEO420 GEOGRAPHIC INFORMATION SYSTEMS (3 CRS.)

Lecture and computer-assisted laboratory study of techniques and applications of geographically registered data. Objective is to familiarize students with fundamentals of spatial database development, data management and manipulation, analysis, and display of computer maps. Students introduced to both vector and raster type GIS software in weekly laboratory exercises. *Two hours lecture and two hours computer laboratory per week.*

GEO440 FIELD TECHNIQUES (3 CRS.)

Studies geoenvironmental aspects of the local landscape by direct field observation. Various procedures and techniques are utilized to collect data concerning landforms, geology, soil, streams, air quality, population, transportation, housing characteristics and land use. Instruments, maps, air photographs, and statistics are used to aid in the research, analysis, and evaluation of the field problem.

GEO441 QUANTITATIVE METHODS (3 CRS.)

Broad based education in the geographical sciences requires a proficiency in applying statistical techniques to environmental problems. Provides a comprehensive and empathetic approach to statistical problem solving using practical geographic examples.

GEO444 ENVIRONMENTAL LAND-USE PLANNING (3 CRS.)

Studies the spatial pattern of land-use development in rural and urban areas and interaction between urbanization and environment. Examines the physical and cultural requirements of environmental land-use planning including the study of the land-use classification, planning and zoning procedures, economic activity and the city as an ecosystem. City planning techniques, land-use mapping and field study of the local region are utilized.

GEO445 REMOTE SENSING (3 CRS.)

Emphasis on understanding and application of remotely sensed data. Basic understanding of electromagnetic radiation provided. Environmental applications utilizing low altitude aerial photos, high altitude color photos and satellite sensings within various environmental contexts are provided. Individual remote sensing projects are developed in the area of geology, forestry, land-use planning and industrial analyses.

GEO446 WATER RESOURCES MANAGEMENT (3 CRS.)

Roles of water resources management policies and institutions are examined within central theme of unified river basin management. Stresses interrelationships among watershed planning; relevant legislation; agency authority and coordination; and the geography of watershed management. North American case studies used to illustrate multiple use issues, including aquatic ecology, wetlands, floodplain management, recreation, water supply,

hydropower, industry, and commercial shipping.

GEO450 GEOGRAPHY-GEOLOGY FIELD STUDIES (1 CR.)

One week to 10-day regional field study observing and analyzing the physical and cultural landscape. Emphasis placed upon the physical and historical geology and geography of a prescribed route including several states. Prerequisites: *ESS212, ESS311, GEO103* or permission of the instructor.

GEO490 SELECTED TOPICS (1-3 CRS.)

GEO500 ENVIRONMENTS OF THE NATIONAL PARKS (3 CRS.)

Interdisciplinary study of the natural environments of the national parks, monuments, seashores, etc., and the impact of human activity. Topics for class discussion and activity include geology, landscapes, wildlife, vegetation and human impact, and interaction with the natural setting. Sharing results of intensive study into specific topics by individual students comprises a significant portion of the course.

GEO514 URBAN ENVIRONMENT (3 CRS.)

Examines the impact of information technologies (IT) on the arrangement of human activities. The new technologies in information should make it possible to share information on a global scale. Information on problems ranging from hunger, employment opportunities, environmental degradation, traffic congestion, housing, and many other situations can be shared in a very short span of time over vast areas. Use of new opportunities in information availability and information sharing should assist anyone concerned with a vast range of human problems with their potential solutions. Explores the problems and prospects for using information technology to communicate with people in similar or very different cultural and physical environments to guide the growth and development of human activities.

GEO517 APPLIED GEOGRAPHIC INFORMATION SYSTEMS (GIS) (3 CRS.)

Reviews advanced geographic information systems (GIS) applications and the use of geographic information management technology in environmental analysis. Spatial mapping and data applications will be related to renewable resource management, transportation and logistics, infrastructure management, natural resources and land use planning, public health and safety, environmental hazards, mineral exploration, environmental assessment and monitoring, map and database analysis and research and education. Emphasis is on how GIS can assist in answering questions, solving problems, and analyzing spatial data. State-of-the-art GIS software is used to show applications of geographic information technology for geoenvironmental and natural resource management projects.

GEO520 SETTLEMENT GEOGRAPHY (3 CRS.)

Concerned with analysis and research regarding the character, distribution patterns, and principal functions of rural settlements, towns, small cities and their environs. Representative communities are employed as laboratory areas for field problems and reports.

GEO522 GEOENVIRONMENTAL HYDROLOGY (3 CRS.)

Focuses upon the continental or land phase of the hydrologic cycle and includes the study of supply and the geographical distribution of water in lakes, rivers, streams, embayments, and underground water supplies and the use and/or misuse of these water resources for urban, suburban, and rural living. Consideration given to recent day knowledge, attitudes and technology concerning these water resources. Local water resources and drainage basins are used as laboratory areas for field problems and reports.

GEO524 THE GEOLOGIC ENVIRONMENT (3 CRS.)

Concerned with major concepts of physical and applied geology and their relationship to human activity. Analysis of minerals and rocks, earth structures, global tectonics and surficial processes examined in a lecture, laboratory and field investigation format.

GEO526 THE ATMOSPHERIC ENVIRONMENT (3 CRS.)

Focuses on water budget climatology and its application to geoenvironmental analysis. The Thornthwaite Water Budget technique is taught and used in application to hydrology, drought, ecological relationships, crop production, and environmental change. Special attention given to climatic change, especially paleoclimatic analysis and predicted effects on the environment resulting from global warming or other future climatic changes. Extensive section on climatic classification. Demonstrates to the student the significance of energy/moisture factors as measured by evapotranspiration at the earth's surface and allows student to utilize these factors for the analysis of stream flow, crop production, distribution of ecosystems, and other environmental elements.

GEO528 GEOGRAPHY OF ECONOMIC AND ENVIRONMENTAL SYSTEMS (3 CRS.)

Interpretative survey of the effects manufacturing and economic activities have on land-use development and the environment. Techniques of economic-industrial analysis, mapping procedures, environmental planning policies, and field study of the local region are utilized.

GEO530 MAPPING SCIENCES (3 CRS.)

Advanced methods in computer-assisted mapping and map analysis (geographic information systems or GIS). Emphasis placed upon techniques of establishing, managing spatial (geographic) data bases, cartographic modeling and analysis, and digital map composition using state-of-the-art GIS software. *One hour lecture, three hours computer laboratory per week.*

GEO532 GEOGRAPHY OF ENVIRONMENTAL HEALTH (3 CRS.)

Seminar in geoenvironmental health hazards such as solid waste, air, and water pollution. Emphasis on public health problems these hazards pose, the application of geographic methods, and tools of analysis. Means available to cope with geoenvironmental hazards and associated policy debates are examined. Lecture information limited. Students expected to participate actively in every seminar meeting.

GEO536 PROBLEMS OF THE ATMOSPHERIC ENVIRONMENT (3 CRS.)

Examines and analyzes various weather and climate topics, both natural and human-influenced. Topics include brief review of atmospheric basics, air pollution, ozone, ENSO, climate change, climate modeling, and greenhouse warming. Potential solutions to problems explored. Presented in seminar format and includes journal paper discussion and evaluation, writing opinion papers on controversial atmospheric issues, group projects, class presentations, and a term paper. Interrelationships among the various atmospheric problems are emphasized.

GEO542 LAND-USE REGULATIONS (3 CRS.)

Provides student with knowledge of the components of *community level land use regulations*. The following community level system components are examined: comprehensive plan, zoning ordinance, subdivision regulations, taxation, other minor land acquisition techniques.

GEO545 IMAGE PROCESSING OF REMOTELY SENSED DATA (3 CRS.)

Microcomputer processing of remotely sensed data in digital format forms the primary focus. Each student has numerous hands-on computer experiences in extraction and selection of multiband pixel data from satellite platforms. Image processing and enhancement techniques emphasized. Supervised and unsupervised

classification strategies performed on numerous data sets extracted from selected regions of the world. Students utilize the broad based data sets for more specific applications research.

GEO546 GEOENVIRONMENTAL RESEARCH I (3 CRS.)

Research course to be worked out with member of the geography-earth science department.

GEO548 GEOENVIRONMENTAL RESEARCH II (3 CRS.)

Research course to be worked out with member of the geography-earth science department.

GEO560 GEOENVIRONMENTAL CONFERENCE (1-3 CRS.)

Concentrated one- to three-week sequence designed for graduate students with professional or personal interest in current and timely geoenvironmental problems. Purpose is to help the student develop concepts and factual data on physical environments and on cultural and economic environments of selected areas. Special attention given to natural landscapes and to human use of air, land, and water resources for settlement, transportation, agriculture, recreation, industry and commerce. Recognized authorities in these aspects of the geoenvironment participate as lecturers and discussion leaders. Field trips and open classroom activities are an integral part of the conference. In addition to participating in all aspects of the conference, students enrolled for credit attend special class sessions and complete an individual project related to conference theme.

GEO594 SELECTED TOPICS (1-3 CRS.)

GEO599 INDEPENDENT STUDY (3 CRS.)

GEO609 INTERNSHIP I (3 CRS.)

Provides opportunity to practice geoenvironmental theory and concepts as an observer and participant in the process.

Placement on a limited basis with consulting firms and state and local governments enhances the student's preparation in the field.

GEO610 INTERNSHIP II (3 CRS.)

Provides opportunity to practice geoenvironmental theory and concepts as an observer and participant in the process. Placement on a limited basis with consulting firms and state and local governments enhances the student's preparation in the field.

GEO612 THESIS I (3 CRS.)

GEO613 THESIS II (3 CRS.)

Gerontology (GRN)

GRN480 VALUING DIVERSITY IN LATER LIFE (3 CRS.)

Examines the unique experiences of aging among various racial, ethnic, and cultural groups, with an emphasis on assessing needs and identifying strengths.

GRN481 REFLECTING ON THE IMPACT OF GENDER IN LATER LIFE (3 CRS.)

Students explore the unique experiences of aging women and men, with an emphasis on overcoming discrimination and stereotypes to promote improved quality of life.

GRN482 USING SPIRITUALITY TO PROMOTE OPTIMAL AGING (3 CRS.)

Examines the powerful influence of religion and spirituality in the lives of elders, including ways of working with beliefs and religious systems to improve service delivery.

GRN483 USING APPLIED STATISTICS IN GERONTOLOGY PROFESSIONS (3 CRS.)

Provides students with the skills necessary to apply, understand, and critically evaluate the unique outcomes of research designs involving older adults.

GRN484 EVALUATING GERONTOLOGY PROGRAMS, SERVICES, AND PRODUCTS (3 CRS.)

Engages students in applied research including the evaluation of existing aging-related social service programs and for-profit services and

products aimed at the older adult market, with an emphasis on the use of qualitative methods.

GRN510 FOUNDATIONS OF APPLIED GERONTOLOGY I: THE SOCIAL CONTEXT OF AGING (3 CRS.)

Provides an in-depth overview of the field of aging for diverse career professionals with an emphasis on understanding issues important to elders today such as economics, social relationships, and the importance of advocacy.

GRN511 FOUNDATIONS OF APPLIED GERONTOLOGY II: COGNITIVE AGING, MENTAL HEALTH, AND WELLNESS (3 CRS.)

Examines individual differences in later life including personality, memory and cognition, and the social psychology of aging, with an emphasis on geriatric assessment and application of findings that promote positive aging.

GRN512 FOUNDATIONS OF APPLIED GERONTOLOGY III: BIOLOGICAL AGING, PHYSICAL HEALTH, AND WELLNESS (3 CRS.)

Students will examine the biological and physiological dimensions of health and wellness of older adults with an emphasis on distinguishing normal (i.e., healthy) aging versus pathological (i.e., disease) processes in later life and on applying interventions to achieve optimal fitness in later life.

GRN520 THINKING CRITICALLY FOR GERONTOLOGY PROFESSIONALS (3 CRS.)

Provides students with the skills necessary to understand and critically evaluate aging research, with an emphasis on applying results to real world issues.

GRN610 ADVANCING SOCIAL & PUBLIC POLICY IN GERONTOLOGY (3 CRS.)

Examines the impact of aging and health care public policy (e.g., Medicare, Social Security) on the social service delivery system, with an emphasis on improving the social, economic, and physical environments of elders.

GRN621 CREATING SUCCESSFUL MODELS OF AGING (3 CRS.)

Students will examine model theories, programs and services for seniors, with an emphasis on revision and adaptation for career-specific use.

GRN640 ATTRACTING & KEEPING OLDER CLIENTELE (3 CRS.)

Focuses on issues important to the business professional including the economics of aging, social policy, marketing techniques, and applied market research design.

GRN641 MANAGING AN OLDER WORKFORCE (3 CRS.)

Focuses on issues and skills important to the effective management of an aging workforce including hiring, performance evaluation, training, retraining, and leadership.

GRN650 APPLIED PROJECTS & RESEARCH IN AGING (3 CRS.)

Students choose one of two options depending on career goals: 1) applied internship placement that focuses on working with and/or advocating for older adults; or 2) complete a formal thesis with a gerontology theme with the goal of preparing for advanced graduate level work.

GRN651 INTEGRATING GERONTOLOGY INTO PROFESSIONAL CAREERS (3 CRS.)

Capstone course provides an in-depth analysis of serving older clients/consumers with an opportunity to integrate previously learned material in an individually tailored applied project.

GRN690 LEARNING SOMETHING NEW: ADVANCED SELECTED TOPICS IN AGING (3 CRS.)

Students will have the opportunity to study concepts and applications in the area of diverse aging individuals not covered by regular graduate coursework (to be taught by interdisciplinary faculty over summer terms).

History (HIS)

HIS402 REVOLUTIONARY AMERICA (3 CRS.)

Explores the fundamental changes in American life during the 18th century and their culmination in the American Revolution.

Analyzes those themes within the conceptual framework of the modernization of traditional societies and in the context of broader Western and American developments.

HIS407 WOMEN IN COMPARATIVE PERSPECTIVE (3 CRS.)

Topical exploration of female experiences in selected global cultures. How different societies have constructed gender (or defined the social meaning of being a woman) over time explored in a comparative perspective. Intellectual discourses of religion, education, and politics structure cultural comparisons of women's work, their position within the family, attitudes toward sexuality, civil rights, and access to public power. Through readings, discussions, films, and occasional lectures the class examines the historical development of modern gender conventions in various world regions and of controversies about the human rights of women.

HIS410 THE ISLAMIC WORLD (3 CRS.)

Explores the many contours of the Islamic World from 600 to 1500 CE, focusing on Islam as a religion and as an organizing principle of many diverse societies. Examines how politics, warfare, society, and cultures developed in the Islamic World. Includes: (1) pre-Islamic Arabia, (2) the rise of Islam, (3) Arab expansion and adaptation, (4) nomadic-urban encounters, (5) development of socio-political institutions, religious sects, and cultural-scientific achievements.

HIS413 PENNSYLVANIA HISTORY (3 CRS.)

Deals with the development of Pennsylvania from the eve of European settlement to the present. Attention is given to political, economic, and social trends and institutions

from the seventeenth through the twentieth centuries. Pennsylvania's role in national and international history is also studied.

HIS418 INTRODUCTION TO APPLIED HISTORY (3 CRS.)

Explores the practical application of historical skills and practices in a variety of settings (including business, government, and historical institutions such as museums, historic sites, archives, and historical societies), and the issues historians face when they preserve, interpret, and present the past to the general public. Through hands-on experience, students examine areas such as archive and manuscript curating, historical editing, oral history, material culture studies, museums, historic preservation, historical media production, and history on the World Wide Web. Special emphasis is placed on the financial, legal, ethical, political, and interpretive issues faces by historians presenting the past to diverse audiences.

HIS419 ADVANCED TOPICS IN PUBLIC HISTORY (3 CRS.)

Provides an intensive examination of some of the specialized historical methods used by historians working for museums, historic sites, historical societies, government agencies, and other types of historical organizations. Emphasis may be on one or more of the following: oral history, local history, material culture studies, historical editing, historic preservation, or museum studies. Students gain hands-on experience by designing and executing significant public history projects and by conducting historical fieldwork.

HIS421 STUDIES IN 19TH-CENTURY EUROPEAN HISTORY (3 CRS.)

Undertakes an evaluation of major themes or topics of the period 1815-1914 with emphasis both on those major developments which are unique to the period and those which lay the groundwork for more recent happenings. Pre-requisite: *HIS106* or permission of instructor.

HIS423 ISSUES IN 20TH-CENTURY EUROPE (3 CRS.)

Chronological and topical study of political, economic, social, and intellectual trends of our era. Modern wars, the struggle between authoritarianism and democracy, the East-West split and the European economic community are major themes.

HIS428 ISSUES IN THE GILDED AGE AND PROGRESSIVE ERA (3 CRS.)

Covers political, economic, social and intellectual aspects of the Progressive Movement, tracing its origins in the 19th century and showing how progressivism was a part of the background of the New Deal. Special attention given to the all-important transition of the concept of liberalism from laissez-faire individualism to state regulation. Emphasis is placed upon the differing interpretations of the Progressive Movement which have been developed by various historians.

HIS454 CHINA AND THE OUTSIDE WORLD (3 CRS.)

Investigates China's relations with the outside world during its pre-modern history. Since China is somewhat geographically isolated from the rest of Eurasia, historians have tended to assume Chinese civilization is mostly the product of indigenous developments. The course challenges this assumption by looking at how China and people outside of its borders have influenced each other.

HIS490 SELECTED TOPICS (1-3 CRS.)

HIS494 INTRODUCTION TO ARCHIVES (3 CRS.)

Introduces the nature of archives and concepts of archival administration. Stresses relationship of archives to other kinds of documentary materials, and surveys basic archival activity. Examines state, local, business, labor, university, and church archives and defines the problems of these specialized archives.

HIS499 HISTORIOGRAPHY (3 CRS.)

Traces development of historical consciousness from classical antiquity down through the use of scientific history in the late 19th century. Further analyzes the intellectual foundations, social purposes and methods of contemporary, (i.e., 20th century) historical inquiry. Prerequisite: Nine credits in history or permission of instructor.

HIS510 SEMINAR IN THE SOCIAL HISTORY OF EDUCATION (3 CRS.)

A social history of the rise of literacy and schooling from the 16th through the 20th centuries. Examines the relationships between emergent national state systems and other agencies of modernization such as urbanization and industrialization, which brought modern educational systems, high levels of literacy, and national cultures into existence. Attention focuses on state action, educational system and their ideological content, and education's variable impact across social strata.

HIS512 SEMINAR IN COMPARATIVE LABOR HISTORY (3 CRS.)

Compares history of the working classes and labor movements in various countries including those in the Americas, Europe, Africa, and Asia. Explores the ways workers as producers and citizens intervened to shape the course of the industrial world, and the evolving role of the state in the contested relationships of workers and employers, and cross-cultural patterns of protest and change. Emphasizes the role of gender and race in labor issues.

HIS513 SEMINAR IN U.S. WOMEN'S HISTORY (3 CRS.)

Explores topics and themes pertinent to shaping the past experience of American women, including personal, property, and political rights; ideologies of gender; rural and urban work; education; class, race, and ethnicity; social policy; and sexuality. Readings and discussion in the seminar focus on both empirical and theoretical literature of the field.

HIS514 POPULATION IN HISTORY (3 CRS.)

History of Western (European and American) populations and family structures in relation to changing economic, social, and ecological factors during the era of modernization, i.e., the 17th through the 19th centuries. Also searches for principles applicable to contemporary Third World population problems. Prerequisite: *HIS106* or *HIS202* or permission of instructor.

HIS515 SEMINAR IN 20TH CENTURY U.S. SOCIAL HISTORY (3 CRS.)

Reviews United States history since 1945 through the topical approach. Problems such as internationalism, civil rights, extremism, and comparable topics are considered as they reflect the impact of the assumption of world leadership and responsibility on traditional American concepts, ideals, and values.

HIS516 SEMINAR IN AFRICAN AMERICAN HISTORY (3 CRS.)

Deals with the experience of the black man in America from colonial times to the present. Origins and developments of white attitudes toward black Americans and the origin and development of the attitude of blacks emphasized. Students examine topically and in-depth attitude development, slavery, segregation, the Civil Rights movement, and the contribution of black leaders to American life. Prerequisites: *HIS201* and *HIS202* or permission of instructor.

HIS519 SEMINAR IN INTERNATIONAL RELATIONS (3 CRS.)

Treats United States diplomatic history from 1914 to the present. Considers interpretations of major diplomatic events such as American entry into World War I, World War II, the Cold War, the Korean War, and the Vietnam War, as well as peacemaking at Versailles, Yalta, and other negotiated settlements. Also develops dominant themes in United States diplomacy, including foreign economic interests, Caribbean intervention, isolationism, collective security, the nuclear arms race and disarmament.

**HIS525 SEMINAR IN U.S. REGIONAL HISTORY
(3 CRS.)**

Introduction into the major historiographical issues and research methods of regional and local U.S. history. Focuses attention on questions of regional identity and themes of the relationship between region and nation, and the relationship between region and world. Trains students in analyzing regional and local primary sources. Alternates emphasis between the American West and the American South.

**HIS526 SEMINAR IN THE CIVIL WAR ERA
(3 CRS.)**

Considers new and old interpretations regarding this political watershed's coming and consequences (roughly 1830 to 1880), emphasizing social, cultural, and political perspectives.

**HIS534 SEMINAR IN MODERN GERMAN
HISTORY (3 CRS.)**

Analysis of critical issues in German history since 1871, with emphasis on the period since 1919. Particular emphasis given to collapse of the Weimer Republic and Hitler's dictatorship.

**HIS535 SEMINAR IN MEDIEVAL STUDIES
(3 CRS.)**

Focuses upon the reading and interpretation of various writings of the Early Middle Ages as well as secondary accounts dealing with the age which have come to be recognized as standard works in the field. The selection of works affords a coverage of the economic, political, philosophical, religious, and literary aspects of the period.

**HIS540 COMPARATIVE LATIN AMERICAN
HISTORY (3 CRS.)**

Comparative approach to examine various themes related to Latin America. Comparison and contrasts made between the varying experiences of two or more countries. Comparative themes include pre-Columbian developments, colonial experiences, independence movements, approaches to

modernization, issues of class, gender, and ethnicity, political ideologies and systems, cultural and artistic developments, and relationships to the United States and the world.

**HIS545 HISTORY, THEORY, AND PRE-
INDUSTRIAL SOCIETIES (3 CRS.)**

Introduces current theories that enhance the historical understanding of preindustrial societies (foragers and small-scale food-producing societies as well as early and more complex chiefdoms, states, and empires). Students discuss historically-oriented social and cultural theory and its application to historical reconstruction. Also examine case studies from different times and places, with attention to regional contexts and development of cultural traditions. Topics may include structure and agency, cultural continuity and transformation, nature and culture, orality and literacy, the emergence of complexity, production and exchange, early states, patriarchy, religious and political ideology, material culture, and the interplay of documentary and other forms of evidence.

**HIS550 SEMINAR IN SOUTH ASIAN HISTORY
(3 CRS.)**

Study of the huge subcontinent of India and Pakistan. The approach is historical and includes an analysis of present social, economic, and political problems. The religious background, the culture, the economic and political systems are studied.

**HIS555 SEMINAR IN RUSSIAN SOVIET AND
POST-SOVIET HISTORY (3 CRS.)**

Stresses the idea of continuity as a dynamic force in Russian history, seeing in the domestic and foreign policies of Lenin and Stalin many significant intellectual, political and socioeconomic similarities with the past, especially with Tsarist Russia. Consequently, the study concentrates, when appropriate, on Leninism as distinct from Marxism, the Bolshevik revolution and the period of War

Communism, Stalin's program of industrialization, the purges of the thirties, and the Cold War. Other topics include Reformist continuities in Soviet history and Dissent as a continuing factor.

HIS558 SEMINAR IN EAST ASIA AND THE MODERN WORLD (3 CRS.)

A comparative look at major themes in the histories of China and Japan from earliest times to the present. Premodern topics include prehistory, the development of state Confucianism, the spread of Buddhism, roles of scholars and warriors, the impact of Inner Asia, political decentralization, gender, and peasant society. Includes study of how traditional cultures have been transformed as a result of contact with the West since the 19th century.

HIS562 SEMINAR IN AFRICAN HISTORY (3 CRS.)

Comprehensive survey of the culture and history of Africa with emphasis on the diversity which exists among the peoples of Africa. Includes study of the physical aspects and peoples, the great kingdoms that existed before the coming of the Muslim and the European, slavery and slave trade, art, family life, land, labor, markets, policy, law, and religion. Special attention given to the colonial period and its legacies: nationalism, negritude, independence.

HIS594 SELECTED TOPICS (1-3 CRS.)

HIS598 INDEPENDENT STUDY (3 CRS.)

HIS599 READINGS IN HISTORY (3-6 CRS.)

Opportunity for independent readings in an area of special interest to the student of history, such as the major field of American, European, and non-Western history, including political, economic, social, intellectual and cultural developments. Prerequisites: permission of the department and instructor.

HIS600 COMPUTERIZED HISTORICAL RESEARCH METHODS (3 CRS.)

Seminar in historical research techniques, analysis of source materials, and preparation of a research paper. Students expected to perform research and prepare and present a model seminar paper. Emphasizes the important role electronic resources have assumed in basic historical research methods. Students should schedule this course as early as possible in the program.

HIS601 RESEARCH IN LOCAL AND REGIONAL HISTORY (3 CRS.)

Intensive study and hands-on research of micro regions or localities defined by their natural geographic, economic, or cultural characteristics. Course examines the theoretical and methodical issues of local and regional historical research and then has students apply those concerns in the intensive study of two or more localities. Students are required to complete a research paper demonstrating mastery of the techniques of local and regional historical research.

HIS609 INTERNSHIP I (3 CRS.)

HIS610 INTERNSHIP II (3 CRS.)

HIS612 THESIS I (3 CRS.)

HIS613 THESIS II (3 CRS.)

Human Communication Studies (HSC)

HCS410 FEMINIST PERSPECTIVES ON COMMUNICATION THEORY AND METHODS OF RESEARCH (3 CRS.)

A critical examination of traditional theories of human communication and research methods in terms of their invalid claims to universalism and their value implications which have perpetuated a world view which is masculine biased. Students will develop an understanding of the interaction process, in different communication contexts, as well as the role of

the researcher in assessing communicative encounters. Students will deconstruct traditional perspectives on the basis of the insights gained through diverse feminist perspectives and discover alternative approaches to communication studies.

Information Systems Studies (ISS)

ISS515 INFORMATION SYSTEMS PROJECT MANAGEMENT (3 CRS.)

Introduces the student to the principles and practices necessary to be an effective information systems team member or project manager. Covers project scope, time, costs, quality, and human resource management techniques as applied to the kinds of project management problems and issues unique to the IS environment. The student will obtain hands-on experience using MS Project as well as other types of project management software. Specific course emphasis will focus on the techniques of project management, leadership, teamwork, and project risk management. Case work will be a major part of this course.

ISS520 PROGRAMS, DATA, AND FILE STRUCTURES (3 CRS.)

Advanced programming, data organization, and accessing design techniques.

ISS530 MODELING AND DECISION SYSTEMS (3 CRS.)

Explores a wide range of analytical techniques that may be employed in business decision-making processes. Topical coverage includes simulation, project management, financial analysis, optimization, break-even analysis, and inventory management. While the theoretical foundations of these concepts are addressed, emphasis is on applications and solution techniques relevant to practical business situations. Utilization of current computer technology is an integral part of the course.

ISS540 DATA COMMUNICATIONS, NETWORKS, AND DISTRIBUTED DATA PROCESSING (3 CRS.)

Covers communications environments, communication system components, networks and control, common carrier services, design of communications networks, network management and distributed environment, local area data networks, future networks.

ISS550 DATABASE DESIGN (3 CRS.)

The data environment, basic technical concepts and system resources for data, database concepts, use and management of databases.

ISS560 INTRODUCTION TO E-BUSINESS (3 CRS.)

Covers the Internet and electronic commerce concepts related business operations and management, technology utilization, and industry-specific applications. It is intended to introduce students to the current business, management, technology, and legal issues in e-business. Topics span a wide range and include web strategies, e-marketing, e-human resources, e-finances, B-to-B systems, e-legal issues, website design, technology needs, and database-driven web sites.

ISS570 INFORMATION ANALYSIS (3 CRS.)

Designed to provide student with the necessary skills to accomplish the systems analysis and logical design of information systems. It will include the role of a modern systems analyst as a problem solver in the business organization. Course will progress through the system development life cycle (SDLC) and include project planning, project management, and feasibility assessment. Different methodologies, models, tools and techniques used to analyze and design and build systems will be introduced.

ISS580 WEB PROGRAMMING (3 CRS.)

Includes, but not limited to, the following topics: introduction to the Internet and the World Wide Web, programming, using

Microsoft Express and Visual InterDev, JavaScript programming, Dynamic HTML programming, ActiveX controls, electronic commerce and security, web servers, active server pages, CGI and PERL, and XML. A major portion of this course will be to build a website based upon an e-commerce business.

**ISS590 INFORMATION SYSTEMS
DEVELOPMENT I (3 CRS.)**

First in a two semester sequence where students apply the knowledge they have gained in MSIS program. While studying various software development paradigms, the students practice those techniques by performing requirements analysis and design of a state-of-the-art information systems project to solve a given business problem. This course stresses team management, project planning, and risk assessment in addition to technical skills.

**ISS600 INFORMATION SYSTEMS
DEVELOPMENT II (3 CRS.)**

Second in a two semester sequence where students apply the knowledge they have gained in MSIS program. The projects started in ISS 590 are implemented and tested. Technical knowledge and experience with configuration management tools, inspection and testing strategies is paired with project management and risk analysis techniques.

Management (MGT)

**MGT432 ENTREPRENEURSHIP AND SMALL
BUSINESS MANAGEMENT (3 CRS.)**

Analysis of special problems facing manager-owner of start-up and existing small business enterprises. Case analysis, and analyses of actual small business operations used. Problem-solving approach employed throughout. Prerequisites: *MGT305*, *MKT305*, and *FIN305*.

**MGT436 BUSINESS DECISION-MAKING
LABORATORY (3 CRS.)**

Experimental approach to decision making utilizing a sophisticated business simulation.

Students grouped into a number of “firms,” competing in a hypothetical market. Series of quantitative and behavioral exercises used to integrate previously studied concepts into a dynamic, competitive setting. Prerequisites: *FIN305*, *MGT305*, and *MKT305* or departmental permission.

MGT447 BUSINESS AND SOCIETY (3 CRS.)
Examines role of business in a social system including interrelationships with government, the community, employees, and other major publics. A major area of focus is the social responsibility of business. Consideration given to such areas as international business, business ethics, pollution, and impact of governmental regulations. Prerequisite: departmental permission.

**MGT470 INTERNATIONAL MANAGEMENT
(3 CRS.)**

Study of the unique problems associated with the management of firms operating in an international environment. Focus on the strategic and comparative issues. Prerequisite: *MGT370* or departmental permission.

MGT490 SELECTED TOPICS (1-3 CRS.)

MGT497 STRATEGIC MANAGEMENT (3 CRS.)
Examines strategic decision making under conditions of dynamic uncertainty, with focus on integrating the domains of the various majors in the college to facilitate understanding of each employee’s and each discipline’s role in the total organization. Importance of achieving a fit between the internal and external environment for organizational survival and success is a central issue. Consideration given to influence of social, demographic, technological, political/legal, economic, and global environments, as well as industry environment of competitors, buyers, suppliers, and substitutes. Is the cross-functional capstone course for all business majors. Prerequisites: *MKT305*, *FIN306*, *INM330*, *MGT305*.

Marketing (MKT)

MKT430 MARKETING RESEARCH (3 CRS.)

In-depth study of the tools of marketing research, including the methodology and techniques used in measuring the characteristics of markets for products and services. Topics include the research process, data collection, sampling, data analysis, and presentation of results. Contains hands-on development of capabilities to study characteristics of the marketplace. Prerequisite: *MKT305*, *MKT306*, *INM220*, or departmental permission.

MKT460 INTERNATIONAL MARKETING (3 CRS.)

The socio-political-legal-economic environment of international marketing operations, which may include cross-cultural consumer behavior, international marketing research, forms of regional market agreements, international product, pricing, distribution and promotion policies, multinational corporations, and world trade patterns. Prerequisite: *MKT305* or departmental permission.

MKT470 SERVICES MARKETING AND NON-PROFIT MARKETING (3 CRS.)

Analysis of service marketing and non-profit marketing. Similarities and differences to consumer marketing are analyzed. Methods to successfully market the service or organization discussed. Prerequisite: *MKT305* or departmental permission.

MKT490 SELECTED TOPICS (1-3 CRS.)

Opportunity for the department to offer courses in areas of departmental major interest not covered by the regular courses.

MKT495 MARKETING ANALYSIS AND STRATEGY DEVELOPMENT (3 CRS.)

Capstone synthesis course for marketing majors. Requires students to apply information and skills learned in business core and marketing courses to case situations and research projects. Critical thinking, use of marketing research, and strategic decision making are stressed. Emphasizes the use of written and oral communication skills as part

of the marketing core requirements.

Prerequisites: *MKT305*, *MKT306*, *MKT430*, or departmental permission.

Mathematics (MAT)

MAT400 HISTORY OF MATHEMATICS (3 CRS.)

The history of mathematics is filled with interesting stories, fascinating people, and great triumphs of intellect. Course will focus on the development of mathematical ideas relevant to K-12 mathematics. Some examples include episodes in the development of number systems, algebra, geometry, trigonometry, number theory, and analytic geometry. Some time will be spent on multicultural issues, sometimes referred to as "Ethnomathematics." Prerequisite: *MAT 320* or at least junior standing.

MAT410 NUMERICAL ANALYSIS (3 CRS.)

Primarily a course in methods of numerical approximation to the value of functions, polynomials, and systems of equations. Topics covered include accuracy of approximate calculations, interpolation and interpolating polynomials, solution of algebraic and transcendental equations. Numerical solution of simultaneous linear and nonlinear equations, principle of least squares, difference equations, and quadrature formulas are studied. Prerequisite: *MAT212* and either *CSC180* or *CSC253*.

MAT413 APPLIED STATISTICS II (3 CRS.)

Involves the study of statistical methods and their application to various data sets. The entire statistical process of data collection, fitting data to a model, analysis of the model, verification of the model and inference will be covered. Topics include hypothesis testing, two-population means, bivariate relationships, regression, ANOVA, experimental designs, two-way tables, time series, survival analysis and multivariate analysis. Examples will be taken from a variety of disciplines. Concepts will be reinforced through class projects. Prerequisite: *MAT 313*.

MAT420 ABSTRACT ALGEBRA (3 CRS.)

Detailed study of one or more of the algebraic structures groups, rings, fields. Emphasis is on structure theorems such as the fundamental theorem of group homomorphisms and uses the sophistication developed in the prerequisite. Prerequisite: *MAT320*.

MAT428 LINEAR ALGEBRA (3 CRS.)

Begins detailed study of both the algebraic and analytic theory of vector spaces, linear transformations, and eigenspaces. Brief review of matrices and linear system is followed by detailed study of abstract vector spaces, linear transformations, eigenvalues, eigenvectors, and (eigenspaces). Prerequisite: *MAT 320* and *MAT329*.

MAT429 APPLICATIONS OF LINEAR ALGEBRA (3 CRS.)

Linear algebra is one of the most widely applicable branches of mathematics. Course will expand upon the students' background in linear algebra and study specific applications of the tools of linear algebra to areas such as economics, game theory, optimization, statistics, computer science, and physics. Prerequisite: *MAT320* and *MAT329*.

MAT430 COMPLEX VARIABLES (3 CRS.)

Introductory course in the theory of functions of a complex variable. Topics include complex numbers, analytic functions, contour integration, Cauchy's Theorem and infinite series. Prerequisite: *MAT212* and *MAT225*.

MAT441 ADVANCED CALCULUS I (3 CRS.)

Designed to give a fundamental understanding of the concepts used in elementary calculus. The methods of a logical proof are developed and used throughout. Topics include real numbers, sequences, limits, continuity, derivatives and the Riemann integral. Prerequisites: *MAT212*, *MAT213*, and *MAT320*.

MAT442 ADVANCED CALCULUS II (3 CRS.)

Continuation of Advanced Calculus I. Attention is given to further topics from the theory of the Riemann integral, including improper integrals; infinite series; and sequences and series of functions. Additional

topics may be drawn from integration theory and topology. Prerequisite: *MAT441*.

MAT444 MODERN GEOMETRY (3 CRS.)

Covers a subset of the following topics: the finite Geometries of Desargues and Pappus; Transformations (geometric affine, projective); convexity; recent Euclidean, Ceva, Menelaus geometry; 9 point circle; constructions; projective geometry. Prerequisite: *MAT333* or at least junior standing.

MAT450 COMBINATORICS (3 CRS.)

Is concerned with computing within discrete mathematical structures and combinatorial problem solving. Topics include sets and graphs; counting and enumeration techniques including recurrence relations and generating functions; and graph theory algorithms. Prerequisite: *MAT320*.

MAT456 DETERMINISTIC METHODS OF OPERATIONS RESEARCH (3 CRS.)

After a brief historical introduction, the course presents a detailed study of the mathematics related to linear programming. The theory includes the simplex method, duality theory, sensitivity analysis and matrix games. Some applications will be given. Prerequisites: *MAT212* and *MAT329*.

MAT476 PROBABILITY (3 CRS.)

In-depth development of probability and distribution theory. Topics include counting techniques, Bayes' Theorem, random variables, moment-generating functions, univariate and multivariate probability distributions, and the Central Limit Theorem. Prerequisites: *MAT212*, *MAT213*, and *MAT329*.

MAT486 MATHEMATICAL STATISTICS (3 CRS.)

Continuation of *MAT476*. Topics include transformations of random variables, order statistics, convergence in distribution, point and interval estimation, likelihood ratio tests, hypothesis testing, linear models, analysis of enumerative data, and analysis of variance. Prerequisite: *MAT476*.

MAT490 SELECTED TOPICS IN MATHEMATICS (3 CRS.)

Provides opportunity for the department to offer experimental courses at the senior level in areas of mathematics not covered by the regular courses. Topics such as foundations of mathematics, number theory, graph theory, cryptography, and advanced applications of mathematics are appropriate at this level.

MAT516 MATHEMATICAL MODELING (3 CRS.)

Involves the process of developing mathematical models as a means for solving real problems. Course will encompass several different modeling situations that use a variety of mathematical topics. The mathematical fundamentals of these topics will be discussed, but with continued reference to their use in finding the solutions to problems. Connections to NCTM *Standards*, current curriculum projects and the use of various technologies will be made throughout the course.

MAT527 NUMBER THEORY DISCOVERY (3 CRS.)

Number theory, one of the oldest branches of mathematics, is very much an alive subject, with discoveries made every day. Course is intended to focus on topics that relate specifically to the natural numbers. These will be treated as motivational problems to be used in an activity-oriented approach to teaching mathematics at the middle and high school levels. Pace will be non-frantic and designed to promote understanding of the topics covered. Topics include prime number facts and conjectures, divisibility theory for integers, magic squares, Pascal's triangle, Fibonacci numbers, modular arithmetic, and mathematical art.

MAT528 ALGEBRA FOR TEACHERS OF MATHEMATICS (3 CRS.)

Classically algebra has its origins in the solution of equations. The term algebra comes from the Arabic word meaning reductions or restoration and had to do with the idea that in equations whatever was done to one side had to likewise be done to the other in order to

maintain or restore equivalence. Modern algebra developed from several classical problems such as: efforts to systematically understand the solutions of polynomials of higher degree; problems of geometry such as construction of regular polygons, trisection of angles, etc., and problems in number theory, e.g. Fermat's Last Theorem. In this sense, algebra is applied mathematics. Thus the abstraction of algebra is not for its own sake but because it results in insight and mathematical power. We will study the integers, rationals, reals, polynomials and complex numbers from the point of view of being examples of some of the fundamental objects of algebra — rings and fields.

MAT534 GEOMETRICAL CONCEPTS (3 CRS.)

Focuses primarily on the foundations and applications of Euclidean and non-Euclidean geometries. Incorporates collaborative learning and the investigation of ideas through group projects and the use of technology. Topics include finite geometries, geometric transformations, triangle and circle properties not previously encountered, and spherical geometry. Course will provide deeper understanding of geometry that is needed to teach geometry and to illustrate connections between it and other branches of mathematics.

MAT538 TOPICS IN DISCRETE MATHEMATICS (3 CRS.)

Discrete mathematics is the primary source of examples for the *Problem Solving and Reasoning and Proof Standards* in the 2000 *NCTM Principles and Standards for School Mathematics*. Provides an in-depth look at one or more of the many branches of discrete mathematics, with particular emphasis on *Problem Solving and Reasoning and Proof in the Secondary Math Curriculum*. Specific topics will be taken from the fields of graph theory, recurrence relations, generating functions, game theory, design theory, coding theory, combinatorics or cryptography. Prerequisite: *MAT320* or familiarity with mathematical proof.

MAT543 CONCEPTS OF CALCULUS (3 CRS.)

Many schools teach some form of calculus for 11th or 12th grade students. Current reform efforts in calculus have shifted the emphasis toward conceptual understanding of key ideas. Conceptual questions take many forms, including interpreting graphical data, using numerical estimation, proving properties of functions and operations, and understanding the foundations of the basic calculus tools. Course will follow a standard textbook for single variable calculus along with material correlated with the AP Calculus exam, and will emphasize the theory behind the main ideas to prepare teachers for creation, discussion, and assessment of conceptual calculus problems.

MAT551 TECHNOLOGY IN THE TEACHING AND LEARNING OF MATHEMATICS (3 CRS.)

Provides opportunities to explore the utilization of desktop and handheld technologies, which enhance the teaching and learning of mathematics. Applications of calculators to the school curriculum to be explored include the use of graphing, symbolic, and scientific calculators as well as peripherals such as CBLs and CBRs. Opportunities to investigate computer supported symbolic manipulation systems, geometry programs, spreadsheet applications, and Internet resources. Prerequisite: graduate standing or permission of instructor.

MAT552 MATHEMATICAL DISCOVERY (3 CRS.)

Treats problems from many areas of mathematics with emphasis on understanding, learning, and teaching problem solving. The history of problem solving in general and its application to particular problems is investigated.

MAT572 PROBABILITY FOR MIDDLE AND HIGH SCHOOL TEACHERS (3 CRS.)

Explores introductory topics such as computing probabilities for simple, compound events, mutually exclusive and conditional events. Further topics include the study of random variables, expected value, discrete distributions including binomial and Poisson, continuous distributions including normal,

uniform, and exponential, simulations, and sampling distributions of sample statistics. TI-83 graphing calculators and the statistical package Fathom will be used throughout the course.

MAT573 STATISTICS FOR MIDDLE AND HIGH SCHOOL TEACHERS (3 CRS.)

Involves the study of statistical methods. Both graphical and numerical representations of data, including histograms, box plots, scatterplots, and measures of center and spread will be introduced. Process of data collection and experimental design will be explored. Course will conclude with topics involving inference, including confidence intervals and hypothesis tests for means and proportions. Real data sets from a variety of disciplines will be utilized. The TI-83 graphing calculator and the statistical package Fathom will be used throughout the course. Prerequisite: *MAT 572*.

MAT600 ELEMENTS OF RESEARCH (3 CRS.)

Devoted to research techniques and procedures in mathematics and/or mathematics education. Instructor discusses research methods and each student selects a topic on which to do a research study. This study is presented to the class in oral and written form.

Music (MUS)

MUS427 OPERA AND MUSIC THEATRE (3 CRS.)

Explores the major points in the historical development of music drama from grand opera to musical comedy. When scheduling permits, class attends a live production of an opera or musical comedy either on campus or in a nearby city. Prerequisite: *MUS121* or permission of instructor.

MUS461 WORLD MUSIC (3 CRS.)

Studies folk music of selected countries as a product of the local culture, with analysis of musical styles, forms, and practices. Emphasis on listening to a wide range of recorded

examples, utilizing the large folk record collection in the SU library.

MUS490 SELECTED TOPICS (1-3 CRS.)

Philosophy (PHL)

PHL490 SELECTED TOPICS (1-3 CRS.)

Physics (PHY)

PHY400 MECHANICS (4 CRS.)

Intermediate course in the treatment of Newton's laws of motion, vector analysis, and rectilinear and curvilinear motion in a plane. Further study in areas of statics and dynamics, including concurrent and non-concurrent forces, movements and torques, energy, rotational motion, moments of inertia and oscillatory motion is included in laboratory and problem solving periods. (3 periods lecture and 2 periods lab./wk.) Prerequisites: *PHY206* and *MAT212*.

PHY401 ELECTRICITY AND MAGNETISM (4 CRS.)

Advanced course in general electricity and magnetism. Electric and magnetic fields, D.C. and A.C. circuits, capacitance, inductance, electromotive force and electrical instruments are among the topics developed. (3 periods lecture and 2 periods lab./wk.) Prerequisites: *PHY206* and *MAT212*.

PHY410 HEAT AND THERMODYNAMICS (4 CRS.)

Intermediate course in heat. Basic concepts and principles are developed more intensely in the study of properties of gases and in thermodynamics. Some topics studied are temperature measurements, expansivity, specific heats, thermal conductivity of solids and liquids, thermal properties of gases, change of phase, and heat engines. (3 periods lecture and 2 periods lab./wk.) Prerequisites: *PHY206* and *MAT212*.

PHY415 OPTICS (4 CRS.)

Course in both geometrical and physical optics and applications. Optical instruments, wave propagation, interference diffraction,

polarization, and atomic molecular spectra are studied. Spectrascopes, spectrometers, polariscopes, photometers, and interferometers are some of the instruments used. (3 periods lecture and 2 periods lab./wk.) Prerequisites: *PHY330* and *MAT213* (may be taken concurrently).

PHY430 NUCLEAR PHYSICS (4 CRS.)

Introductory treatment of nuclear structure, quantum mechanics, elementary particles, nuclear reactions, radiation, measurement, detection and safety, particle accelerators, and reactors. Lab experiments include statistics of counting, range of alpha particles, absorption of alpha, beta, and gammas, half-life, neutron induced activity. (3 periods lecture and 2 periods lab./wk.) Prerequisite: *PHY330*.

PHY441 QUANTUM MECHANICS (3 CRS.)

Introduction to physical concepts and mathematical formulations of nonrelativistic quantum mechanics. Enables a detailed study of the Schrodinger Equation and its properties. The Schrodinger Equation is solved exactly for the particle in a square well potential, the simple harmonic oscillator, and the hydrogen atom. Both perturbation theory and the variational calculation are developed as methods for handling more complicated systems. Spin is introduced as an ad hoc concept and the properties of simple magnetic systems are studied. Heavy emphasis is placed throughout on applications to simple systems. (3 periods lecture/wk.). Prerequisite: *PHY306*.

PHY442 MATHEMATICAL PHYSICS (4 CRS.)

Fairly rigorous development of mathematical techniques widely used in upper division physics courses. Topics generally include: functions of many variables and partial differentiation, infinite series and expansion techniques, curvilinear coordinates, vector calculus and a study of ordinary and partial differential equations often encountered in physics. (3 periods lecture/wk.) Prerequisites: *PHY206* and *MAT212*.

PHY450 SOLID STATE PHYSICS (3 CRS.)

Introduction to solid state physics which studies the geometry of perfect crystals, symmetry of crystals, crystallographic notations, determination of crystal structure by X-ray diffraction, lattice vibration, specific heats of solids, and the electronic states in solids. Physical properties of conductors and semiconductors, ferromagnetism, paramagnetism, ferroelectricity, nuclear magnet resonance, and electron spin resonance are topics included in this course. (2 periods lecture and 2 periods lab./wk.) Prerequisite: *PHY330*.

PHY490 SELECTED TOPICS (1-3 CRS.)

Political Science (PLS)

PLS431 PENNSYLVANIA LOCAL GOVERNMENT (3 CRS.)

Concerns the structure and administrative functions of local governments in Pennsylvania. Extensive emphasis placed on analyzing local governmental functions and problems emanating from the jurisdictions' political, social, and economic environments. Prerequisite: 9 hours in political science or permission of instructor.

PLS501 ORGANIZATIONAL THEORY AND BEHAVIOR (3 CRS.)

Examines organization theory relevant to the administration and leadership in complex organizations. Focus is on topics of bureaucracy and development of administrative thought; human behavior in organizations including individual motivation, group and interpersonal dynamics, and leadership modes; organization structure, process, and dynamics; organizational development and change; and emerging perspectives in the field.

PLS502 HUMAN RESOURCES MANAGEMENT (3 CRS.)

Case study course reviewing personnel administration integratively as an administrative, behavioral, and technical area.

Role of the line manager in personnel administration is covered, as well as the technical roles of central personnel agency and the operating personnel office.

PLS503 FOUNDATIONS OF PUBLIC BUDGETING AND FINANCE (3 CRS.)

Provides knowledge base required to understand the principles underlying public sector budgeting and decision making. Public sector decision models are explained and the theory of public goods examined in depth. Evolving techniques for satisfying public needs through the private sector (e.g. privatization) are investigated and outcomes analyzed.

PLS504 ETHICS FOR PUBLIC SERVICE MANAGERS (3 CRS.)

Examines specific contemporary ethical concerns in the public sector and the ethical conduct required by statutes and codes of conduct. Appropriate case studies discussed, emphasizing the constantly changing standards in the public sector.

PLS511 STATE GOVERNMENT (3 CRS.)

Studies state governments in the American federal system and analyzes state government institutions and processes with special reference to Pennsylvania.

PLS512 INTERGOVERNMENTAL RELATIONS AND PROGRAMS (3 CRS.)

Examines the developing area of intergovernment relations among federal, state, and local governments. Special emphasis placed upon the work of the Advisory Commission on Intergovernmental Relations and implementation where feasible by state and local governments.

PLS521 COLLECTIVE BARGAINING AND LABOR RELATIONS IN THE PUBLIC SECTOR (3 CRS.)

Reviews whole area of relations between public employees and public employers and

impact on public personnel administration. Some guide-lines used for past contractual arrangements are covered.

PLS551 PLANNING AND PUBLIC POLICY (3 CRS.)

Examines relationship between the planning process and public policy including the inputs into the development of public policy as well as legal and other constraints. Using the current national budget priorities as a national plan and in-depth examination and reconciliation of these priorities is carried out in view of political, social, and economic constraints.

PLS552 SEMINAR IN URBAN-RURAL PLANNING (3 CRS.)

Comprises an exhaustive study of planning concepts and processes used at state and local levels with special emphasis on Pennsylvania. Theories of comprehensive planning in the United States are analyzed and compared. The constitutional bases for planning are examined as well as the new trends toward planning programming budgeting systems (PPBS).

PLS561 ADMINISTRATIVE LAW (3 CRS.)

Study of the law concerning the powers and procedures of administrative agencies. These governmental bodies which affect the rights of private and public parties through either adjudication or rule making are compared to and contrasted with the judicial, legislative and executive processes using the case method.

PLS591 SELECTED TOPICS (3 CRS.)

PLS601 RESEARCH METHODS (3 CRS.)

Survey of the research process including preparation of a research design, use of theoretical framework, and testing of hypothesis by gathering and analyzing data. Recommend the student complete this course as early in the graduate program as possible.

PLS603 PUBLIC POLICY ANALYSIS (3 CRS.)

Briefly examines the policy making and policy implementation processes as they relate to the analysis of public policies. Major focus is upon results-oriented management techniques, and a number of specific quantitative policy analysis techniques.

PLS605 APPLIED MANAGEMENT TECHNIQUES IN PUBLIC ADMINISTRATION (3 CRS.)

Requires students to demonstrate their ability to successfully resolve workplace situations by utilizing principles and concepts of public management as presented in the core and elective courses of the M.P.A curriculum. Employing the case study method, and additional reading, the principal focus requires the students as individuals and in teams to work with the development and implementation of public policy. Course takes an application and problem-solving approach designed to develop the practical management skills required in the current public administration workplace.

PLS611 INTERNSHIP I (3 CRS.)

Opportunity to practice public administration theory and concepts as participant and an observer in the process. Placement on a limited basis in a government or nonprofit activity enhances the student's preparation in the field.

PLS612 INTERNSHIP II (3 CRS.)

Opportunity to practice public administration theory and concepts as participant and an observer in the process. Placement on a limited basis in a government or nonprofit activity enhances the student's preparation in the field.

PLS621 THESIS I (3 CRS.)

PLS622 THESIS II (3 CRS.)

Psychology (PSY)

PSY405 QUALITATIVE RESEARCH METHODS (3 CRS.)

Intended to give an understanding of and practice in phenomenological description, structural analysis, and other qualitative research methods.

PSY410 PSYCHOLOGY AND WOMEN (3 CRS.)
Focus on views of women in early psychology, then turns to an in-depth analysis of the psychological aspects of issues affecting women. Topics include: current and historical psychological theories about women and sex differences; achievement motivation; women and mental illness; psychological aspects of menstruation; female sexuality; women's romantic relationships and friendships; reactions to victimization (rape, domestic violence; obsessive relationships and stalking, sexual abuse); psychological consequences of women's physical appearance; body image and eating disorders; prejudice and discrimination against women; consequences of inclusive vs. noninclusive language; improving communication and cooperation between men and women. Prerequisite: *PSY101*.

PSY420 HEALTH PSYCHOLOGY (3 CRS.)
Study of psychological processes that help and hinder the maintenance of health. Health is viewed in a framework of positive aspects beyond just the absence of pathology. Holistic and allopathic systems are compared and seen as complimentary. The organism is considered as a process of coordinated hierarchical self-regulating structures. Maintenance of proper psychophysical balance is seen as a means for management of stress and the immune system. Students have the opportunity to practice some wellness skills.

PSY430 SENSATION AND PERCEPTION (3 CRS.)
Includes study of human senses, sensory coding, neurological basis of sensation, perceptual processes in vision and hearing, perceptual development, theories of perceptual experience, adaptation level theory, person perception, self-perception and the physiological basis of perception. Some experiments performed in the area of sensation and perception.

PSY435 PSYCHOPHARMACOLOGY (3 CRS.)

Examines the absorption, distribution, metabolism, and elimination of psychoactive drugs. The mechanism of drug action, addiction, tolerance, and physical dependence for drugs of abuse and therapeutic drugs is studied. Prerequisites: *PSY102* and *PSY320* or permission of instructor.

PSY470 LEGAL PSYCHOLOGY (3 CRS.)
Informs student about the relationship between psychology and law by introducing contemporary psychological knowledge as it applies to the legal system. Topics include: psychology of evidence, social psychology of the jury, the psychologist as an expert witness, psychology of jury selection, and research methods used by legal psychologists.

PSY475 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY (3 CRS.)
Surveys theoretical and empirical research relevant to the behaviors and experiences of individuals in relation to the human constructs called organizations and the economic activities called work.

PSY485 TESTS AND MEASUREMENTS (3 CRS.)
Focuses on the statistical and psychological theory of tests and measurements. Prerequisite: a recent undergraduate statistics course.

PSY500 ADVANCED RESEARCH DESIGN AND STATISTICS (3 CRS.)
Concerned with scientific method to the investigation of behavior. Research methods and experimental design and statistics are reviewed along with a survey of the more recent significant developments in the field of psychology. Use of computer statistical packages to analyze data is emphasized. Students demonstrate competency in descriptive statistics. Prerequisite: Students are required to take and pass a competency exam prior to entry into the course. *Contact the professor or departmental secretary for test procedures.*

PSY512 THEORIES OF LEARNING (3 CRS.)

Examines the explanations of human learning processes offered by various behavioral and cognitive theorists. Classical and contemporary theories and applications are presented dealing with topics such as conditioning, motivation, memory, and problem solving.

PSY515 THEORIES OF PERSONALITY (3 CRS.)

Explores theories, issues, and research in personality, and encourages the psychology graduate student to develop his or her own pragmatic orientation.

PSY516 MOTIVATION (3 CRS.)

Examines and compares different theories of motivation. Basic motives such as hunger, thirst, sex, and aggression in humans and animals examined. In addition, more complex motives discussed in light of decision theory.

PSY518 PRINCIPLES OF COGNITION AND BEHAVIOR MODIFICATION (3 CRS.)

Study of applied techniques of modifying behavior and cognition. Includes stimulus control processes, reinforcement theory, modeling, extinction, desensitization, counter-conditioning, cognitive restructuring, stress inoculation training. Prerequisite: *PSY500*.

PSY519 LIFE SPAN PSYCHOLOGY (3 CRS.)

Lifespan development provides information about developmental processes from conception through adulthood. Interaction of environmental and genetic factors stressed. Theoretical points of view are presented. Prerequisite: undergraduate course in child development and/or permission of the instructor.

PSY527 STUDIES IN THE PSYCHOLOGY OF ADOLESCENCE (3 CRS.)

Systematic study of physical, behavioral and psychological development of the individual from puberty to emerging adulthood.

PSY529 PSYCHOLOGY OF SUCCESSFUL AGING (3 CRS.)

Focuses on process of aging during later years of the life span. Developmental approach provides basis for the systematic study of aging.

The interaction of the physiological, psychological, emotional, intellectual, and social aspect of aging are emphasized.

Prerequisite: *PSY519*.

PSY530 STUDIES IN THE PSYCHOLOGY OF THE EXCEPTIONAL CHILD (3 CRS.)

Concerned with findings of significant studies on the exceptional child. Emphasis given to the contributions of research dealing with characteristics of the exceptional child, identification, ways of meeting special needs and implications for child and those who work with the child.

PSY531 ADVANCED COGNITIVE PSYCHOLOGY (3 CRS.)

In-depth analysis of new issues within the field of cognitive psychology is focus. Sample content includes models of memory, processes of cognition, implicit versus explicit memory, and problem solving.

PSY532 ADVANCED PHYSIOLOGICAL PSYCHOLOGY (3 CRS.)

Gives student interested in brain-behavior relationships an introduction to experimental manipulations commonly used in the research area. Students do extensive reading within a selected area of research as preparation for a series of demonstrations using several invasive techniques routinely used in the field. Both neurophysiological and behavioral observations are made in order to test specific experimental hypotheses.

PSY533 ADVANCED SOCIAL PSYCHOLOGY (3 CRS.)

Study of how people make sense of others and of themselves; how ordinary people think about people and how they think they think about people.

PSY534 SURVEY OF RESEARCH IN ABNORMAL BEHAVIOR (3 CRS.)

Review research and theoretical contributions to the understanding of abnormal behavior,

with primary emphasis on discussion of recent research findings regarding the etiology of various mental disorders.

PSY540 HISTORY OF PSYCHOLOGY (3 CRS.)

Reviews history of psychology from its roots in philosophy through its transformation into a science. Included is a critical examination of major issues, assumptions, and schools of thought.

PSY590 INTRODUCTION TO GROUP DYNAMICS (3 CRS.)

Examines the theory and experiences of group interaction. Observation and participation in face-to-face groups of varying structures and functions are provided. Theories of group development and observational systems and techniques applicable in educational, business, and institutional settings are examined. Selected topics include goal analysis, functional group structures, leadership influence, conforming norm pressures, deviant behaviors, and communication network patterns.

PSY594 SELECTED TOPICS (3 CRS.)

Opportunity to study concepts and research in areas of psychology not covered by the regular course of study in a seminar setting. Areas covered are those in which instructors have special expertise and in which there is a special student request.

PSY598 INDEPENDENT STUDY (3 CRS.)

PSY612 THESIS I (3 CRS.)

Designed to provide master's degree candidates with opportunity to conduct a major research project. A research proposal, literature review, and a pilot study required. First in a two-course sequence. Prerequisite: *PSY500*.

PSY613 THESIS II (3 CRS.)

Second of a two-semester sequence of graduate courses designed to provide master's degree candidates an opportunity to conduct a major research project. Students implement the research proposal designed in Thesis I, collect

data, complete a statistical analysis, write a research report, and make an oral presentation. Students experience the procedure and format of conducting a research project that might be prepared for publication in a psychological journal. Prerequisite: *PSY612*.

Reading (RDG)

RDG413 TEACHING READING TO ENGLISH LANGUAGE LEARNERS (3 CRS.)

Designed to address teaching reading and writing to the English language learner in a non-ESL classroom; address the concerns of teachers who encounter students in their classrooms who are learning English; explore the theories about first-and second-language acquisition; introduce classroom best practices in literacy as they relate to learners of English; and support teachers in developing an understanding of the basic principles of teaching and assessing English language learners with practical suggestions for assisting students in learning to cope in their new culture. *Course is reserved for reading minors and Master's of reading students.*

RDG422 STUDIES IN CHILDREN'S LITERATURE (3 CRS.)

Planned to evaluate the role and importance of literature in the elementary classroom. Emphasis placed on critical analysis of current research in the field and the incorporation of literature within the curriculum.

RDG490 SELECTED TOPICS (1-3 CRS.)

RDG520 TUTORING SECONDARY STUDENTS (3 CRS.)

Designed to give master's degree candidates experience working with upper-grade students who are having difficulty becoming effective readers and writers. Candidates in this course will tutor 3-5 freshman students once per week for the course duration. In addition, student's reading and writing abilities will be assessed at the beginning and end of the course.

**RDG528 FOUNDATIONS OF LITERACY
DEVELOPMENT (3 CRS.)**

Provides a comprehensive overview of factors related to literacy development and explores the implications of knowledge about the reading/writing process for effective instruction. Topics considered include such areas as: research knowledge about literacy processes, early literacy experiences, comprehension, vocabulary/concept development, word identification, literature for reading instruction, microcomputers and literacy, instructional materials, classroom organization for effective literacy instruction, and strategies for instruction/assessment in reading.

**RDG529 READING AND REASONING BEYOND
THE PRIMARY GRADES (3 CRS.)**

Examines comprehensively all aspects of literacy instruction for older children and adults. Special attention given to topics having unique relevance to older readers such as: mastery of expository text structures, development of independence in monitoring and controlling one's own reading, building of vocabulary concepts, and development of positive attitudes toward print.

**RDG532 DIAGNOSIS AND ASSESSMENT IN
READING (3 CRS.)**

Explores varied means for obtaining information about children's abilities in using print as a basis for aiding further development. Critically examines the strengths and weaknesses of assorted reading/writing assessment strategies. Emphasis will be given to those strategies that are process-oriented and have the most direct application to instruction. Students will practice using informal observation techniques and varied measurement instruments as a basis for preparation of a clinical case report. Prerequisites: *RDG528* and *RDG529* or permission of instructor.

**RDG533 ADVANCED DIAGNOSIS AND
ASSESSMENT IN READING (3 CRS.)**

Further examines issues introduced in *RDG532* with emphasis upon refining and expanding expertise in observation of literacy development. Preparation of a clinical case report required. Other topics investigated include: current issues in literacy assessment, new strategies for assessment, organizing classrooms for optimal diagnosis and instruction, recent literature by reading researchers with implications for assessment. Prerequisite: *RDG532*.

**RDG534 LABORATORY PRACTICUM IN
READING (3 CRS.)**

Provides experience in facilitating children's literacy development in a clinical setting with guidance and support from university faculty. Assessment/instructional strategies are practiced and discussed as a means of building insights about literacy processes and individual developmental needs. Prerequisite: *RDG532*.

**RDG535 SEMINAR IN LITERACY, LANGUAGE,
AND READING (3 CRS.)**

Explores current understandings of literacy processes with opportunities for in-depth study of topics of special interest and relevance. A capstone course, students reflectively examine concepts introduced in earlier courses including possibilities and problems of their application in varied instructional settings. Practice in curriculum leadership roles such as writing for publication and planning/implementation of in-service sessions provided. Prerequisites: *RDG532*, *RDG534*, and two other graduate-level courses in reading.

RDG554 PRACTICUM IN READING (3 CRS.)

Addresses a series of practical issues Teacher Leaders face on a daily basis. Topics include teaching adults, how to work with administrators, parents, and trainers of teacher leaders in coming years. Field site visits are included. Prerequisite: Master's degree.

**RDG555 PRACTICUM IN ASSESSMENT
(3 CRS.)**

Prepares Reading Recovery teachers to learn to observe and record the reading and writing

strengths of individual children. Field site visits are included. Prerequisite: master's degree.

RDG594 SELECTED TOPICS (1-3 CRS.)

RDG599 INDEPENDENT STUDY (3 CRS.)

RDG601 LANGUAGE DEVELOPMENT THEORY (3 CRS.)

Focuses on theory and current research related to effective Reading Recovery instruction. Examines and applies theoretical principles of learning and literacy learning to their practice. Evaluates and relates theories of literacy learning, thinking, and teaching to the process of becoming literate.

RDG602 READING THOUGHTS AND PROCESSES (3 CRS.)

Reading Recovery is a system intervention that changes how educators think about learning and instruction. Teacher Leaders are key to creating systemic change. Examines recent developments and research regarding issues Teacher Leaders are most likely to face when implementing Reading Recovery Programs in their respective sites.

RDG605 READING RECOVERY TEACHER TRAINING I (4 CRS.)

Assists teachers in developing an understanding of the Reading Recovery procedures in order to select from these procedures to meet individual learning needs. Lesson analysis, specific strategies, and charting student progress are important components of course. Prerequisite: permission of instructor.

RDG606 READING RECOVERY TEACHER TRAINING II (3 CRS.)

Refines and expands the Reading Recovery teacher's level of awareness and understanding of how to effectively implement the Reading Recovery Program. Prerequisite: permission of instructor.

RDG609 INTERNSHIP (3 CRS.)

RDG612 THESIS I (3 CRS.)

Students identify, explore, and synthesize current information regarding a topic of special significance in literacy education. Work guided by reading faculty and must be approved by faculty committee. All students expecting to undertake advanced graduate studies in reading are urged to elect the thesis option.

RDG613 THESIS II (3 CRS.)

Continuation of *RDG612*.

Social Work (SWK)

SWK420 GENDER ISSUES FOR HELPING PROFESSIONALS (3 CRS.)

Examines institutionalized gender socialization, current gender issues and controversies, feminist theory for understanding behavior, and guiding principles and practices for helping professionals. Students encouraged to develop heightened self-awareness about their gender-related attitudes and values for functioning as a helping professional. May be taken for undergraduate or graduate credit.

SWK450 SOCIAL WELFARE POLICIES AND SERVICES (3 CRS.)

Presents framework for developing and analyzing contemporary social policies and programs. Focuses on current issues and social problems by examining policy and service implications with an emphasis on realist development and change strategies.

SWK490 SELECTED TOPICS IN SOCIAL WELFARE (1-3 CRS.)

Provides the opportunity for a range of topics to explore issues and concerns for the helping professions. Designed for advanced undergraduate and graduate students.

SWK 501 PRINCIPLES AND PHILOSOPHIES OF SOCIAL WORK (3 CRS.)

Introduces the generalist model for practice, which serves as a base for subsequent social

work courses and provides initial understanding of the needs and issues of special populations in relation to social welfare policies and services as well as social work practice. The course provides an introduction to the profession and the M.S.W. program while helping to prepare students for their subsequent field placements. Fifteen volunteer hours are required. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: None.

SWK 505 UNDERSTANDING SOCIAL WORK PRACTICE WITH DIVERSE POPULATIONS (3 CRS.)

Focuses on issues of understanding human diversity, risk, societal power and privilege, including issues related to sexism, heterosexism, classism, ageism, religion and spirituality, cultural identity development oppression, risk, resilience, and empowerment. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: None.

SWK 510 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I (3 CRS.)

Examines the life span approach to human development with a focus on the interaction between the individual's bio-psycho-social functioning and the social environment. It considers the impact of micro and mezzo (i.e. families and small groups) systems on behavior with particular emphasis given to populations considered to be at risk. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: *SWK 501* Principles and Philosophies of Social Work.

SWK 511 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II (3 CRS.)

Emphasizes 1) the interaction of social and economic forces with young, middle-aged, and older adults and social systems; 2) traditional and alternative theories about systems as they interact with people, promoting and impeding health, welfare, and well-being, in context of human culture and diversity; and 3) knowledge about opportunity structures and how they promote and deter human development and need-meeting. Students evaluate theory and apply it to practice situations. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: *SWK 510* Human Behavior in the Social Environment I.

SWK 515 SOCIAL WELFARE POLICY (3 CRS.)

Furnishes students with the orienting knowledge and skills needed to examine social welfare policies and to understand their relevance to social service delivery and social work practice. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: *SWK 501* Principles and Philosophies of Social Work.

SWK 520 MICRO/MEZZO SOCIAL WORK PRACTICE (3 CRS.)

Offers opportunities for applying and studying advanced generalist practice with individuals, families and groups. Course content is presented in a face-to-face format with web-based supplements. Students will learn and apply intervention skills to their specific area of interest, which enable development of individuals, families, and groups in environment processes for improving social functioning. Prerequisite: *SWK 501* Principles and Philosophies of Social Work; co-requisite: *SWK 530* Field Practicum I.

SWK 521 MACRO SOCIAL WORK PRACTICE (3 CRS.)

Course conceptualizes macro social work as the profession that brings about social change.

The course extends from understanding theories about communities and organizations to assessment and practice. Students will focus on analysis of the community as a social system, common strategies for producing change in community work, and the nature of formal organizations as environments through which social services are provided in the community, and the knowledge and skills necessary to affect change within organizations. Students will examine the role of a macro social worker as program developer, program administrator and organization developer. This course will meet 2/3 in the classroom with 1/3 of the schedule involving on-line work. Prerequisite: *SWK 520* Micro/Mezzo Social Work Practice; co-requisite: *SWK 531* Practicum.

SWK 525 RESEARCH METHODS (3 CRS.)
Introduces research concepts, procedures for conducting research and their application to social work practice. Advanced knowledge of scientific inquiry, the ethics that guide research, and the roles of social workers as researchers are also covered. Both qualitative and quantitative methods of collecting and analyzing data are given major attention. Students learn the procedure for developing a research proposal. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing.
Prerequisite: None.

SWK 530, 531 FIELD PRACTICUM I/II (3 CRS./3 CRS.)
Provides students with practical experience (200 hours each) in supervised direct service activities across all client systems from the individuals level to that of the community. This initial field experience allows the student to apply theory and skills acquired in the generalist foundation areas while simultaneously fostering the development of a professionally reflective, ethical, knowledgeable, and self-evaluating social worker. Prerequisite: None; co-requisites: *SWK*

520 Micro/Mezzo Social Work Practice/*SWK 521* Macro Social Work Practice.

SWK 601 INTEGRATIVE SEMINAR (3 CRS.)
Course builds upon the foundation content from students' B.S.W. programs. It serves as a "bridge" course to integrate B.S.W. learning in preparation for M.S.W. courses. A major focus in the course is an in-depth look at the history of social welfare services and the relationship to current social work knowledge, skills, and values. A volunteer experience is required that serves as the basis for the course project. The course will be primarily taught via distance learning with some meetings with the instructor. Offered in Summer. Prerequisite: Advanced standing admission status.

SWK 610 ADVANCED HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT (3 CRS.)
The required HBSE course during the advanced year for all students will put emphasis on the application of material in the student's area of interest. Students will be encouraged to help develop their knowledge through a variety of reading, activities and lecture. Additional material will focus on diversity and populations at risk, and social and economic justice. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: *SWK 511* Human Behavior in the Social Environment.

SWK 612 SOCIAL WORK AND THE LAW (3 CRS.)
Social workers understand that virtually everything they do professionally in the 21st century has to include evaluations of risk, legality, funding and unintended consequences. Malpractice appropriately receives much attention in this regard but legislative and regulatory requirements regarding funding, grants and contracts, definitions of disabilities, responsibilities of different levels of government and many other legal aspects of the profession must also be considered. Law, for most people, is a foreign language and social workers need to be somewhat fluent in

this language so they can deal with the convergence of law and social work, social services and social policy. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite or co-requisite: *SWK 601* Integrative Seminar.

SWK 615 ADVANCED SOCIAL WELFARE POLICY (3 CRS.)

Course introduces conceptual approaches to policy analysis and assesses selected social policies, programs and services in the areas of income maintenance, health care and personal social services in accordance with these approaches and with specific reference to their impact on special populations. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: *SWK 515* Social Welfare Policy.

SWK 620 ADVANCED MICRO/MEZZO SOCIAL WORK PRACTICE (3 CRS.)

Provides advanced knowledge, practice experience and consultation in both a classroom setting and in collaboration with practice in the student's field placement, which focuses on individuals, families, and/or groups. The use of the supervisory model in agencies will be explored in depth. Prerequisite: *SWK 520* Micro/Mezzo Social Work Practice; co-requisite: *SWK 630* Field Practicum I.

SWK 621 ADVANCED MACRO SOCIAL WORK PRACTICE (3 CRS.)

Assists the student in developing knowledge of administration supervision, grant writing, fundraising, and budgeting. The macro social work practice course will provide models for developing programs that promote social and economic justice for the underserved, the poor, and the oppressed populations. This course will meet 2/3 in the classroom and 1/3 on-line. Prerequisite: *SWK 521* Macro Social Work

Practice; co-requisite: *SWK 630* Advanced Field Practicum I.

SWK 625 ADVANCED RESEARCH METHODS (3 CRS.)

Focuses on social work practice research paradigms, models, and methods. Particular attention is given to the conduct of evaluation and assessments projects. Students will conduct independent evaluative research within their field placement settings. This course also give the student a more in depth exploration of gender and ethnic minority research issues and computer-assisted, descriptive and exploratory data analysis. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing. Prerequisite: *SWK 525* Research Methods.

SWK 630,631 ADVANCED FIELD PRACTICUM I/II (3 CRS. SWK 630, 3 CRS. SWK 631)

Students complete 250 hours of supervised agency/organization practice experience during the first semester of the second year. Students will be in the field three days per week. The same course requirements and hourly expectation will be in place for Advance Field Practicum II in the second semester of the second year. Prerequisite: *SWK 530/531* Field Practicum I/II or Advanced Standing Status; co-requisite: *SWK 620* Advanced Micro/Mezzo Social Work Practice or *SWK 621* Advanced Macro Social Work Practice.

SWK 632 CAPSTONE SEMINAR (3 CRS.)

Capstone Seminar, taken concurrently with *SWK 631: Field Instruction IV* provides a bridge between the graduate student role and functioning as an advanced practitioner. The Capstone Seminar examines issues and concerns facing social workers in advanced professional practice, and integrates and synthesizes knowledge, value and skill components with field experiences through

focused case studies. Prerequisites: *SWK 620* Advanced Micro/Mezzo Social Work Practice or *SWK 621* Advanced Macro Social Work Practice; co-requisite: *SWK 631* Advanced Field Practicum II.

Sociology (SOC)

SOC410 FAMILY AND SOCIETY (3 CRS.)

Focuses on the family as a social institution, a social process, and as an interacting system. Includes emphasis on historical development and interrelationship between the family and society. Major theoretical perspectives are applied to the study of the family. Cross cultural and utopian (U.S.) family movements included. Prerequisite: *SOC101* or *SOC257*.

SOC425 SOCIOLOGY OF LAW (3 CRS.)

Introduction to study of sociology of law and sociology in law. Course primarily looks at legal systems of the United States, primary actors in those legal systems, social/cultural contests in which laws exist and are created, and how laws both reflect and affect social structure. Course not designed to be a law course in the law school sense. Course examines and applies sociological theories, concepts, and research to a particular arena of the social structure — laws and legal systems. Prerequisite: *SOC101*.

SOC450 CLASSICAL SOCIAL THEORY (3 CRS.)

Provides a critical and comparative study of the development of sociology, giving historical backgrounds and presenting recent theories of society. Prerequisite: *SOC101*.

SOC452 CONTEMPORARY SOCIAL THEORY (3 CRS.)

Focuses on 20th-century American sociologists and their contributions to the discipline. Idiosyncratic, biographical considerations and a broader “schools of theory” perspective will be utilized. Significant theoretical issues relevant to contemporary sociology also reviewed. Prerequisite: *SOC450*.

SOC490 SELECTED TOPICS (1-3 CRS.)

SOC540 SOCIOLOGY OF HIGHER EDUCATION (3 CRS.)

Examines the different social structures, organizations, and communities that make up higher education in the U.S. today. Emphasis is placed upon the history and recent development of higher education models. We will examine how the bureaucratic and institutional structures handle many of the issues, including the role of the “liberal arts,” governance, distance education, the financing of higher education, the emergent emphasis on professional/vocational programs, institutional and systemic inequalities, growth of higher education administrative staffs, increasing role of for-profit institutions, the marketing of higher education, and the various “crises” identified by commentators and critics.

SOC550 LEADERSHIP THEORY AND PRACTICE (3 CRS.)

Overview of theories of leadership historical and contemporary. Emphasis will be on application of theories in pragmatic situations to promote system goals. Understanding of variations in effective leadership models across diverse cultures and subcultures is discussed.

SOC560 LEADERSHIP, CHANGE, AND INNOVATION (3 CRS.)

Analysis of leaders as agents of social change. Leadership characteristics and strategies that have changed the world will be identified through a diverse set of case studies.

SOC570 APPLIED ORGANIZATIONAL AND LEADERSHIP ANALYSIS (3 CRS.)

Part of capstone experience that will prepare students to conduct an organizational and leadership analysis during their concurrent internship experience. Students will develop a design for their analysis, present and discuss their designs with other students, meet during their internship to discuss their progress, and present their conclusions.

SOC591 SELECTED TOPICS (3 CRS.)

Provides the opportunity to offer courses in areas of interest to the Organizational Development and Leadership Program not covered by the department's regular graduate courses.

SOC609 SOCIOLOGY GRADUATE INTERNSHIP (3 CRS.)

Designed to give graduate students relevant leadership experience in the concentration area. All ODL internships are to be approved by the director of the program in semester prior to the start of the internship. Students would ideally register for *SOC609* and *SOC570* concurrently.

Spanish (SPN)

SPN400 SEMINAR: ADVANCED STUDIES IN SPANISH LANGUAGE AND LITERATURE (3 CRS.)

Detailed examination of specific aspects of Spanish literature, authors, genres, literary and philosophic schools and linguistic problems such as translation and dialects. Seminar may be taken more than once provided a specific topic is not repeated. Prerequisite: Permission of instructor.

SPN420 THEORY AND PRACTICE OF TRANSLATION (3 CRS.)

Introduces various types and tools of translation and provides extensive practice in translating technical, commercial, diplomatic and literary materials. In addition to practice in written translation of Spanish to English, other elements of the translation field such as interpretation, adaptation and subtitling discussed.

SPN490 SELECTED TOPICS (3 CRS.)

Special Education/Education of Exceptional Children

EEC411 INTRODUCTION TO EXCEPTIONALITY (3 CRS.)

Surveys intellectual, physical, sensory, and socio-emotional differences of individuals with disabilities as they pertain to the learning process and social adjustment for the nation's largest minority group. Principles of integrated educational programming for individuals with disabilities including diversity issues of culture, race, gender, ethnicity, and economics are introduced. Consideration is given to the philosophical, legal, historical, theoretical, and research bases of special education.

EEC444 FORMAL/INFORMAL ASSESSMENT OF INDIVIDUALS WITH EXCEPTIONALITIES (3 CRS.)

Introduces a learning systems model for the educational evaluation of exceptional children. Tests of intelligence, language development, academic achievement, gross and fine motor skill and social and emotional development are studied along with other data gathering techniques such as anecdotal records, behavior checklists, and parent interviews. Emphasis given to identification of those learning and behavior correlates essential in generating prescriptive programs for exceptional children. Class presentation includes lecture, discussion, films, demonstrations on video tape and actual experience in administering and scoring selected tests. Prerequisite: *EEC411*.

EEC445 PROACTIVE APPROACHES FOR CLASSROOM AND BEHAVIOR MANAGEMENT (3 CRS.)

Instruction and experience in individual and group aspects of classroom management. Provides instruction on proactive versus reactive interventions, defining and prioritizing behaviors, collecting and interpreting observational data, and methods for increasing desirable behaviors and decreasing undesirable behaviors. Discusses generalization and maintenance of behaviors and self-

management. Writing effective behavior management plans emphasized while focusing on ethical, legal, and proactive practices. Prerequisite: *EEC411*.

EEC447 INSTRUCTIONAL CONTENT AND PRACTICES FOR SPECIAL EDUCATION (3 CRS.)

Advanced study of problems of curricular development including models, content, vehicles of implementation, and evaluation aspects. Students develop curricular solutions to professional and situational needs. Topics include development of Individualized Education Programs (IEPs), working with supervisors, and instructional strategies for teaching academics, social, vocational, and leisure skills. Prerequisite: *EEC411*.

EEC474 EDUCATIONAL NEEDS OF THE GIFTED CHILD (3 CRS.)

Examines characteristics and needs of gifted and talented students through reading and discussion of case studies and the literature. The nature of desirable individual and group activities satisfying to gifted students is explored for use in the school program.

EEC490 SELECTED TOPICS (1-3 CRS.)

EEC513 MEDICAL AND PSYCHOLOGICAL ASPECTS OF DISABILITY (3 CRS.)

Considers physiological and related factors affecting learning and behavior. Medical considerations related to causations and remediation are stressed. Study of physiological, neurological, and psychiatric aspects of the learning and behavior patterns of individuals with exceptionalities are made. Prerequisite: *EEC411*.

EEC543 SELECTED STUDIES IN SPECIAL EDUCATION (1-3 CRS.)

Opportunity for qualified students to pursue selected studies in areas of special interest such as preparation and development of new

curriculum materials, investigations leading to a greater knowledge of procedures for teaching, and the survey and analysis of current practices in the organization and the curriculum of the special education program. Prerequisites: Six graduate credits in special education and approval of department chair.

EEC546 VOCATIONAL EDUCATION OF INDIVIDUALS WITH DISABILITIES (3 CRS.)

Information about the pre-vocational and vocational training of adolescents and young adults who have mental retardation, learning disabilities, or behavior disorders. Provides an understanding of curriculum developments, methods, materials and teaching techniques utilized in the development of skills and attitudes essential to success in the world of work.

EEC548 DIRECT INSTRUCTION (3 CRS.)

Covers carefully sequenced, highly-prescriptive teacher directed procedures for teaching decoding, comprehension, content, and study skills. Rather than merely "list" ways to teach skills, direct instruction method discusses when a skill should be taught, what examples to teach, how to correct errors, and the relationship among different reading skills. Prerequisite: *EEC411* or permission of instructor.

EEC551 PROGRAMMING AND INSTRUCTION FOR INDIVIDUALS WITH LEARNING DISABILITIES (4 CRS.)

Subject matter in reading, writing, spelling, math, and social skills at the elementary and secondary levels is discussed for students who have learning disabilities. Diagnostic results are utilized in developing appropriate remedial methods, activities, and IEPs. Helps students become critical thinkers, creative planners, and effective practitioners. New topics and areas included as noted in research literature. Method of presentation is basically lecture and discussion. Prerequisite: *EEC411, EEC550*.

**EEC552 LANGUAGE DISORDERS IN
INDIVIDUALS WITH LEARNING DISABILITIES
(3 CRS.)**

Study of children's language development as a basis for intensive study of language disorders in the individual with learning disabilities, disorders of oral language and usage, diagnosis and remediation of the disorder. Emphasis on the interrelationships among oral language, reading and written language disorders. Class presentations include lecture, discussion, and videotape demonstrations. Students gain experience in doing language analysis and developing remediation strategies to be integrated in the overall remediation plan of the student. Prerequisite: *EEC550*.

**EEC561 PROGRAMMING AND INSTRUCTION
FOR INDIVIDUALS WITH MENTAL
RETARDATION/DEVELOPMENTAL
DISABILITIES (4 CRS.)**

Study of educational strategies and materials for use with students who have moderate to pro-found levels of impairment in intellectual functioning. Adaptation of instructional strategies and materials to meet unique needs of the students when necessary is also stressed. Education for independent functioning in self-care skills, social skills, and daily living skills is emphasized. Prerequisites: *EEC411*, *EEC560*.

**EEC562 PROGRAMMING AND INSTRUCTION
FOR INDIVIDUALS WITH SEVERE AND
PROFOUND MENTAL RETARDATION (3 CRS.)**

Studies educational processes of students with severe and profound mental retardation. Course provides understanding of curriculum development, methods, materials, and special teaching techniques and strategies as applied in both public school and institutional settings. Major emphasis on programming for self-help and social skill development. Prerequisite: *EEC560*.

**EEC571 PROGRAMMING AND INSTRUCTION
FOR INDIVIDUALS WITH BEHAVIOR
DISORDERS (4 CRS.)**

This methods course focuses on development of appropriate curriculum and strategies based on individual needs, practical application and methods, and assessment. Students have a field experience working with students with behavior disorders, their teachers and/or their families at the elementary, middle, secondary level and/or in alternative settings. Specific emphasis placed on what educators can do to promote learning for students with behavior disorders including initial planning and organization, assessment, selection and modification of curriculum, communication with others, and positive behavior management programs with an emphasis on teaching social skills and appropriate curriculum as an integrated strategy using current and best practices. Prerequisite: *EEC570*.

**EEC572 COUNSELING AND GROUP PROCESS
FOR CHILDREN WITH BEHAVIOR DISORDERS
(3 CRS.)**

Explores strategies and procedures for individual and group counseling, role playing, and discussion groups. These techniques are built on understanding of group processes and basic theories of counseling as they relate to educational programming for children with behavior disorders. Prerequisite: *EEC411* or *EEC570*.

**EEC590 PRACTICUM I IN SPECIAL EDUCATION
(3 CRS.)**

Designed to extend student's professional preparation beyond resources of the college to include resources of the community and region. Practicum is intended to permit graduate student to engage in supervised professional activities in selected cooperating community agencies, local education agencies, or intermediate units. Prerequisites: *EEC544*, *EEC545*, *EEC551*, *EEC561*, *EEC571*.

**EEC591 PRACTICUM II IN SPECIAL
EDUCATION (3 CRS.)**

Supervised intensive field experience designed to provide the candidate for certification in special education with field experiences in assessment techniques, special class operation, participating in child study teams, and

curriculum development. Prerequisite:
EEC590.

**EEC592 CLINICAL ASSESSMENT OF
INDIVIDUALS WITH EXCEPTIONALITIES
(3 CRS.)**

Provides an intensively supervised experience in individual assessment of individuals with exceptionalities. Students work in small teams with a faculty member and are responsible for a complete educational assessment of selected children. Each individual team member gains experience in both parent and teacher interviewing, test administration and interpretation, team staffings, report writing and summary interpretation conferences with both student and his/her parents. *Offered only during summer session*. Prerequisite: Permission of adviser.

EEC594 SELECTED TOPICS (1-3 CRS.)

EEC599 INDEPENDENT STUDY (3 CRS.)

EEC609 INTERNSHIP (3 CRS.)

Teacher Education (TCH)

**TCH423 INTEGRATING LITERATURE IN MIDDLE
GRADES (3 CRS.)**

Focuses on broadening knowledge base and understanding of children's/young adults' literature available for use with students in content area study. Literature will be discussed along with exploration of incorporating it into middle level content subjects and using it as a tool to enhance literacy and content learning.

**TCH440 GENDER EQUITY IN EDUCATION
(3 CRS.)**

Surveys role of women in educational systems, focusing on women as students, teachers, and administrators. Examines how traditional expectations of women are perpetuated throughout the educational system.

**TCH445 STRATEGIES FOR EFFECTIVE
CLASSROOM MANAGEMENT (3 CRS.)**

Presents historical perspective of past practices in classroom management strategies, including

discipline techniques. Relates current school law to what is legal for teachers in managing classrooms. Surveys current theories and programs regarding classroom and time management strategies. Provides practical suggestions based upon research findings as to how to more effectively and efficiently develop a proactive environment conducive to instruction. Explores multicultural settings and inclusion dynamics as they relate to classroom management strategies.

**TCH475 INCLUSIVE EDUCATION: A PRACTICAL
APPROACH FOR EDUCATORS (3 CRS.)**

Explores needs of the slow learning child as they are related to curriculum content, methods of teaching, use and interpretation of test results, and desirable equipment and facilities. Emphasis placed upon social and economic aspects of a gradual transition from school to community activities.

TCH490 SELECTED TOPICS (1-3 CRS.)

**TCH501 EFFECTIVE TEACHING: THEORY AND
PRACTICE (3 CRS.)**

Emphasis on assisting teachers to understand and utilize the research and data-based principles of effective teaching. Included are planning and management techniques which enable effective teachers to make efficient use of class time while preventing discipline problems. Theories and practical applications of various discipline models, creative teaching techniques, and self-assessment devices presented.

**TCH502 STRATEGIES FOR CRITICAL THINKING
AND PROBLEM-SOLVING (3 CRS.)**

Offers both a research base and real-world classroom applications for infusing critical thinking and problem-solving into all levels of curricular areas. Encourages participants to create learning environments fostering intellectual curiosity and inventiveness. Explores strategies that challenge students to pose problems and search for ways to solve

them. Incorporates performance-based assessment.

TCH505 INSTRUCTIONAL TECHNOLOGY FOR TODAY'S EDUCATOR (3 CRS.)

Students develop skills in using current technologies to support instruction in a variety of settings. Multimedia software, web page development, and distance learning design and implementation are required. Students examine various aspects of interactive and noninteractive technologies and make instructional applications. Evaluating appropriate hardware and software configurations for delivering instruction is included. Students will use technology to research and develop real life classroom curricular solutions.

TCH511 ELEMENTARY SCHOOL CURRICULUM AND ASSESSMENT (3 CRS.)

Surveys existing elementary school programs and research to determine and evaluate curricular models and assessment issues. Investigates such areas as purposes of education, curricular content, scope and sequence, classroom climate, standards, and program evaluation.

TCH524 MIDDLE SCHOOL CURRICULUM AND ASSESSMENT (3 CRS.)

Surveys basic characteristics of middle school organizational patterns, curriculum design, and evaluation models. Evaluates student development, instructional strategies, and assessment issues. Reviews these areas based on current research.

TCH542 MODERN ELEMENTARY SCHOOL MATHEMATICS: ITS CONTENT AND METHOD (3 CRS.)

Deals with the structure of mathematics: reasoning, sets, numeration systems, operations and their properties and number sentences (equalities and inequalities). Discovery learning of the mathematics is

emphasized. Prerequisite: Undergraduate course in teaching of mathematics or permission of the instructor.

TCH543 DIAGNOSTIC TECHNIQUES IN TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL (3 CRS.)

Designed to help the classroom teacher develop skills in diagnostic teaching of elementary school mathematics. Various learning theories and their implications for mathematics development discussed. A case study interpreting data from standardized and informal tests and applying this diagnostic information to remediation activities required. Prerequisite: Undergraduate course in teaching of mathematics or permission of the instructor.

TCH545 EARTH SCIENCE FOR ELEMENTARY TEACHERS (3 CRS.)

Comprehensive study of the earth, including its origin, structure, rocks, soils and minerals, land forms, water, weather and climate in relation to the solar system. The interrelationships between the earth and its peoples are emphasized. The special needs of the elementary teacher are considered.

TCH546 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3 CRS.)

Explores a variety of strategies and techniques for effective N-8 science teaching. An understanding of related science principles is interwoven with practical applications for the classroom. Science curriculum construction and analysis is an emphasis. Science, technological, and societal connections are considered. Prerequisite: Undergraduate course in elementary science methods or permission of the instructor.

TCH560 MAKING SOCIAL STUDIES DYNAMIC (3 CRS.)

Eliminates the "bore" and "gore" from social studies by studying the impact of dynamic forces on the technological age of information.

Explores the arena for modern media literacy. Examines social forces, controversial issues, current events, cooperative learning, conflict resolution, and pragmatic research findings about the social studies. Investigates how to make the classroom teacher's social studies more relevant and meaningful. Prerequisite: An undergraduate course in teaching of social studies or permission of the instructor.

early childhood, elementary, middle school or secondary education placements.

TCH612 THESIS I (3 CRS.)

TCH613 THESIS II (3 CRS.)

TCH575 ADVANCED CHILD DEVELOPMENT
(3 CRS.)

Stresses the results of scientific studies which are used to examine cognitive, physical, and social processes in child development from birth to pre-adolescence with an emphasis placed on the early years. Influence of child's environment, home, and school explored.

TCH594 SELECTED TOPICS (1-3 CRS.)

TCH599 INDEPENDENT STUDY (3 CRS.)

TCH600 ELEMENTS OF RESEARCH (3 CRS.)
Includes a study of the nature and types of research, the selection of appropriate research topics, research techniques including simple statistics, the use of the library resources in research and the systematic collection, evaluation and presentation of research data. Students are guided in developing an action research project in the area of elementary education. Students who have departmental approval and are enrolled in *TCH612* and/or *TCH613*, Thesis, may use the course to assist them in preparing a research proposal. *TCH600* must be completed within the first 15 crs. leading to a master's degree.

TCH605 RESEARCH SEMINAR (3 CRS.)

Presents formal literature reviews of topics related to instructional utilization of computers. Students are required to conduct library research projects as well as action research projects. Seminar leadership on selected topics responsibility of the instructor and students.

TCH609 INTERNSHIP AND ACTION RESEARCH
SEMINAR (3 CRS.)

Designed for graduate students to engage in supervised professional activities in selected

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Readith K. Lindsey, Custodial Worker
Donna L. Loy, Custodial Worker
Donald E. Mann, Custodial Worker
Richard E. McBeth, Custodial Worker
Kay M. McKenrick, Custodial Worker
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Vivian L. Riley, Custodial Worker
Kaye L. Robinson, Custodial Worker
Adam J. Runshaw, Custodial Worker
Barry L. Russell, Custodial Worker
Lindsey E. Schue, B.S., Custodial Worker
V. Paulette Sheets, Custodial Worker
Sylvia J. Smith, Custodial Worker
Gary D. Spencer, Custodial Worker

John J. Spencer, Custodial Worker
Dale S. Stambaugh, Custodial Worker
Gerald A. Tasker Sr., Custodial Worker
Daniel W. Thomas, Custodial Worker
Pete L. Tsambiras, Custodial Worker
Dottie L. Werner, Custodial Worker
Joanne Willis, Custodial Worker
Charles E. Wingert, Custodial Worker
Josette N. Wingert, Custodial Worker
Judith A. Yohe, Custodial Worker

Department Offices

Accounting	Grove Hall	GRH 328	1436
Art	Huber Art Center	HAC 210	1530
Biology	Franklin Science Center	FSC 142	1401
Chemistry	Franklin Science Center	FSC 327	1629
Communication/Journalism	Wright Hall	WRI 103	1521
Computer Science	Mathematics and Computing Technologies Center	MCT 156	1178
Counseling and College Student Personnel	Shippen Hall	SPH 123	1668
Criminal Justice	Shippen Hall	SPH 321	1558
Economics	Grove Hall	GRH 324	1437
Educational Leadership and Policy	Shippen Hall	SPH 127	1591
English	Dauphin Humanities Center	DHC 113	1495
Finance, Information Management and Analysis	Grove Hall	GRH 228	1434
Geography/Earth Science	Shearer Hall	SRH 104	1685
Exercise Science	Henderson Gym	HG 101B	1721
History/Philosophy	Dauphin Humanities Center	DHC 213	1621
Human Communication Studies	Dauphin Humanities Center	DHC 313	1732
Management/Marketing	Grove Hall	GRH 224	1439
Mathematics	Mathematics and Computing Technology Center	MCT 250	1431
Military Science	Wright Hall	WRI 206	1782
Modern Languages	Faculty Office Building	FOB 109	1635
Music/Theatre Arts	Memorial Auditorium	MA 102A/B	1638
Physics	Franklin Science Center	FSC 123	1570
Political Science	Grove Hall	GRH 424	1718
Psychology	Franklin Science Center	FSC 114	1657
Social Work/Gerontology	Shippen Hall	SPH 335	1717
Sociology/Anthropology	Grove Hall	GRH 428	1735
Teacher Education	Shippen Hall	SPH 214	1688

Office hours: 8 am - noon; 1-4:30 pm. From off campus, dial 717, if needed, 477-plus extension.

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As of May 2006

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