



BLOOMSBURG UNIVERSITY



GRADUATE STUDIES — 1988-1989

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OUR MISSION . . .

Graduate programs at Bloomsburg University of Pennsylvania will provide you with the challenge and the opportunity to use your skills and talents to the fullest. You will be encouraged to set high goals and to work hard to achieve those goals. Our programs are more designed to help you attain excellence in your chosen field.

In return, Bloomsburg will provide you with the opportunity to grow and the chance to reach your full potential.

Graduate studies at Bloomsburg — in the arts, sciences, or humanities — stress critical thinking and creative problem solving.

Whether studying full time or part time, you will be prepared to provide leadership in your profession and to make important contributions to society.

■ Who we are...

Bloomsburg University of Pennsylvania is one of 14 universities in the Pennsylvania State System of Higher Education. We have the best of both worlds: our association with the State System gives us the resources and the ability to provide excellent undergraduate and postbaccalaureate education; yet we're small enough to treat every student as an individual, not a number.

We offer five undergraduate programs, master's degree programs in several fields, and a doctorate of study program in elementary education that is offered in cooperation with Indiana University of Pennsylvania.

Granted university status in 1983, Bloomsburg is organized into three colleges; Arts and Sciences, Business, and Professional Studies; and two schools, Graduate Studies and Extended Programs.

The Harvey A. Andruss Library at Bloomsburg has more than 307,000 bound volumes, 1.4 million microtexts, 1,382 periodicals and a 375-volume rare book collection. The library can accommodate 400 readers and uses a computerized data base with dial-up access to 175 files.

■ Where we live...

The Town of Bloomsburg is located along the banks of the Susquehanna River, about 80 miles north of Harrisburg. You'll find a delicate balance in Bloomsburg — the kind of country living and friendliness you'd expect from a community of 12,000; along with the cosmopolitan flavor of a college campus of 6,500 students from both rural and urban areas throughout the Commonwealth and across the nation.

Bloomsburg does not provide on-campus graduate housing during the regular school year, but there are many fine places to live in our community. The university's Residence Life Office maintains a list of off-campus housing. Meals are available for graduate students throughout the school year at our dining facility, Scranton Commons. The Kehr Union has a snack bar. Residence halls are open to graduate students during summer sessions. For more information about housing, contact the Director of Residence Life, Luzerne Residence Hall, Bloomsburg University, Bloomsburg, PA 17815, (717) 389-4089. Bloomsburg is served by two interstate bus lines, and two community airports are about an hour's drive away.



1988-89 GRADUATE CALENDAR . . .

■ Fall Semester, 1988 . . .

Last day for graduate registration	Friday, August 19, 1988
Classes begin at 6 p.m.	Monday, August 29, 1988
Labor Day — no classes	Monday, September 5, 1988
Last day to drop a class	Tuesday, September 6, 1988
Last day to submit application for December graduation	Monday, October 3, 1988
Last day to withdraw from a class	Tuesday, October 18, 1988
Scheduling begins for spring semester	Monday, October 24, 1988
Thanksgiving recess begins at 1:50 p.m.	Wednesday, November 23, 1988
Classes resume at 8 a.m.	Monday, November 28, 1988
Last day for completion of master's thesis, departmental paper, and/or comprehensive examinations	Friday, December 9, 1988
Last day of classes	Saturday, December 10, 1988
Final examinations begin	Monday, December 12, 1988
Final examinations end	Saturday, December 17, 1988
Commencement	Sunday, December 18, 1988

■ Spring Semester, 1989 . . .

Last day for graduate registration	Monday, January 9, 1989
Classes begin at 6 p.m.	Monday, January 16, 1989
Last day to drop a class	Monday, January 23, 1989
Final date to submit application for May graduation	Tuesday, January 31, 1989
Last day to withdraw from a class	Tuesday, March 7, 1989
Spring recess begins	Saturday, March 11, 1989
Classes resume at 8 a.m.	Monday, March 20, 1989
Scheduling begins for 1989 summer sessions, and for 1989 fall semester	Monday, March 20, 1989
Spring Weekend begins at 10 p.m.	Friday, March 24, 1989
Classes resume at 6 p.m.	Monday, March 27, 1989
Last day for completion of master's thesis, departmental paper, and/or comprehensive examinations	Monday, May 1, 1989
Last day of classes	Saturday, May 6, 1989
Final examinations begin	Monday, May 8, 1989
Final examinations end	Saturday, May 13, 1989
Commencement	Sunday, May 14, 1989

Please be aware that Bloomsburg might need to adjust the calendar dates.
Your graduate adviser can give you exact dates for your program.



OUR PEOPLE . . .

■ Administrators...

HARRY AUSPRICH, President
B.S., New York State University
College at Buffalo;
M.S., University of Wisconsin;
Ph.D., Michigan State University

BETTY D. ALLAMONG, Provost and
Vice President of Academic Affairs
B.S., M.A., Ph.D., West Virginia
University

CHARLES H. CARLSON, Acting
Dean, School of Graduate Studies
B.A., San Jose State College;
M.A., Ed.D., Columbia University

■ Graduate Council...

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Associate Professor, Nursing

HAROLD J. BAILEY
Professor, Mathematics and
Computer Science
Director, Institute for Interactive
Technologies

JOHN S. BAIRD JR.
Dean, College of Arts and Sciences

CHARLES H. CARLSON
Assistant Vice President for
Academic Affairs
Acting Dean, School of Graduate
Studies

ELLEN CLEMENS
Associate Professor, Business
Education and Office
Administration

LEWIS CORREALE
Graduate Student, Reading Clinic

FREDERICK C. HILL
Professor, Biological and Allied
Health Sciences

JOHN R. HRANITZ
Professor, Curriculum and
Foundations

ANDREW J. KARPINSKI
Professor, Communication Disorders
and Special Education

ROBERT B. KOSLOSKY
Associate Professor, Art

HOWARD K. MACAULEY
Dean, College of Professional
Studies

RENEE MONAHAN
Graduate Student, Communication
Disorders and Special Education

HOWARD N. SCHREIER
Associate Professor, Communication
Studies

MELVYN L. WOODWARD
Professor, Marketing and
Management

ROBERT P. YORI
Acting Dean, College of Business

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■ Advisers to the Council of Trustees...

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Association of Pennsylvania State
College and University Faculties

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Bloomsburg University Alumni
Association

VETO TALANCA
American Federation of State,
County, and Municipal Employees

SEAN MULLEN
Community Government
Association

HARRY AUSPRICH
President, Bloomsburg University

HOW YOU APPLY . . .

Entrance requirements to graduate studies at Bloomsburg University vary depending on the program you choose. Most applicants will need to take either the Graduate Record Exam or the Miller Analogies Test.

Also, applicants for graduate programs at Bloomsburg should have an undergraduate quality point average of 2.0 or higher.

To receive a graduate admission application form, contact the Office of Graduate Studies, Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815, (717) 389-4227.

You return the form along with an *official* undergraduate transcript and a non-refundable \$15 application fee.

Some graduate programs at Bloomsburg have additional admission requirements. Check with the Office of Graduate Studies for information on admission requirements for the program you choose.

Admission to graduate courses does not bind the university to admit students to candidacy for a master's degree. Certain requirements must be met before you can become a candidate for a master's degree; these requirements are explained on Page 8.

Present Bloomsburg University undergraduates may register for graduate courses, but only under certain conditions. First, they can only take the graduate course during the semester they will complete their undergraduate degree. Second, they must need less than a full load of classes to graduate. Undergraduate students also need the recommendation of their undergraduate adviser and must pay the graduate application fee.

You may audit a graduate course for self improvement. You follow the regular application process we've just outlined. You must also pay all fees required. The approval of the graduate dean is required. When you audit a course you are not required to take tests, upon completion of an audited course, a grade of V is recorded on your transcript.

Bloomsburg often offers graduate courses at other locations in the Commonwealth. These graduate courses are open to students who are not enrolled in a master's program at Bloomsburg; but these students must get approval from the dean of graduate studies to enroll in the class.

■ Fees . . .

If you are a Pennsylvania resident, each semester hour will cost \$102. Out-of-state residents pay \$113 for each semester hour.

Here are the other required fees:

- A student community building fee of \$2.50 if you are taking one to four semester credit hours; \$5 if you are taking five to eight semester hours; and \$10 if you are taking nine or more semester hours.
- A student health service fee of \$20 if you are taking nine or more semester hours. Those who are taking eight or less semester hours do not have to pay this fee.
- A graduation and diploma fee of \$10. (This does not cover your cost of renting academic regalia).
- Late registration fee is \$10.

Bloomsburg has an option activities fee. The fee gives you the use of various recreational facilities on campus. It costs \$35 for two semesters, or \$20 for one semester; the cost during summer sessions is \$2 a week.

All students taking nine or more semester hours are required to have health insurance. Students can opt to enroll in the university's student health plan; or they can show evidence of insurance under a comparable plan. For more information, contact the Bloomsburg University Health Center, McCormick Human Services Center, Room 3213, Bloomsburg, PA 17815, (717) 389-4452.

Please be aware that all fees can change without notice.

■ Refunds...

If you must drop a course, you might receive a partial refund of course fees, depending on which week you withdraw. Through the second week, you will receive 80 percent of your fee; in the third week, 70 percent; in the fourth week, 60 percent; in the fifth week, 50 percent. There is no refund after the fifth week.

■ Financial Help/ Assistantships...

Bloomsburg has several options to help graduate students financially.

A limited number of graduate assistantships are available for full-time students. Each department has its own application process.

Here's how the assistantships work: most students are granted assistantships for one semester at a time; a few students are granted assistantships under a two semester contract.

Assistantships are either "half-time", which require 20 hours a week of work; or "quarter-time", which require 10 hours a week of work. Graduate students who receive half-time assistantships are granted a full waiver of tuition, along with a stipend of \$2,117.50 for the semester. Students who receive quarter-time assistantships are granted a full waiver of tuition, along with a stipend of \$1,058.75 for the semester.

Graduate assistants are limited in the number of semester hours they can take during their assistantships (see Page 7).

Some federal fellowships may be available in selected fields of study. Also, the Pennsylvania Higher Education Assistance Agency Loan Program is available. And Bloomsburg can arrange student work-study funds for graduate students.

For more information, contact: Bloomsburg University, Office of Financial Aid, Bloomsburg, PA 17815.

GRADUATE PROGRAMS . . .

Bloomsburg University offers master's programs in education, the arts, business, and science.

The Master of Education is offered in:

- Biology
- Elementary Education
- Reading

The Master of Arts is offered in:

- Art Studio
- Art History
- Communication

The Master of Science is offered in:

- Biology
- Communication Disorders (audiology, speech pathology, education of the hearing impaired)
- Early Childhood Education
- Special Education (behavior disorders, learning disabilities, mental retardation, gifted/talented, exceptional persons)
- Nursing
- Instructional Technology

The Master of Business Administration is offered in:

- Business Administration

Bloomsburg also offers a Doctorate of Education in cooperation with Indiana University of Pennsylvania (IUP). This is a cooperative doctoral program in elementary education that combines the resources of both institutions.

The program includes areas of concentration in:

- curriculum and supervision;
- administration;
- reading;
- early childhood education;
- educational psychology; and special education.

Students take courses at both Bloomsburg and IUP, and the doctoral committee guiding the dissertation consists of faculty from both institutions.

If you are interested in this doctoral degree program, you should contact Dr. William O'Bruba or Dr. John Hranitz at Bloomsburg University, Bloomsburg, PA 17815.

■ Supervisory Certificate Program...

The Supervisory Certificate Program is designed to give frontline supervisors the needed skills to administer programs and departments, and to manage both professional and non-professional employees.

Supervisory Certificate Programs are offered in these areas:

- Communication
- Early Childhood Education
- Foreign Language
- Curriculum and Instruction
- Social Studies
- Reading
- School Health Services
- Elementary Education
- Mathematics
- Science
- Special Education



ACADEMIC POLICIES . . .

Here are the responsibilities of a graduate student at Bloomsburg University:

- Each student will take responsibility for satisfying requirements for graduation in his or her field.
- While graduate advisers and staff will assist students, decisions on courses and other matters rest with the student.
- Each student should identify any undergraduate weakness or deficiency and discuss them with graduate advisers. (Such weaknesses might include, but are not limited to, not having proper undergraduate prerequisites for the desired graduate program).
- Each student is expected to complete the requirements for a master's degree within six calendar years. This includes courses accepted by transfer. (Bloomsburg will grant extensions for sufficient reason, upon application to the dean of graduate studies and with approval of the student's adviser. This extension must be requested before the six-year period ends).
- Students are expected to attend all classes and take all examinations. Absences from graduate classes are granted only for urgent and verifiable reasons; students granted an absence from class can expect assistance from professors in making up work or examinations.

■ Graduate Student Categories...

Bloomsburg has five categories of graduate students.

Category 510 includes students who do not intend to earn a master's degree at Bloomsburg. This is the category for students who are auditing a course or enrolled in the supervisory certificate program. In some cases, students will be transferred to this category from one of the other categories.

Students in category 510 may apply for transfer to category 530 or category 540. But no more than 12 semester hours earned in category 510 may be later applied toward a master's degree, except when granted special permission by the dean of graduate studies.

Category 520 is for graduate students who plan to earn a master's degree, but whose undergraduate record shows a quality point average (QPA) of less than 2.25. If a student in this category earns a QPA of 3.0 or higher in the first six to nine semester hours of graduate study at Bloomsburg University, he or she is eligible for transfer to categories 530 or 540. Otherwise, the student is transferred to category 510 after completing nine semester hours.

Category 530 is for students who plan to earn a master's degree, but have not yet corrected undergraduate deficiencies, or who have not completed any required admissions tests. The student is automatically transferred to category 540 when his or her adviser certifies that the student has corrected undergraduate deficiencies and has taken all required tests.

Category 540 is for students who have no undergraduate deficiencies for the master's degree program they are pursuing. A student must be in this category to be eligible for admission to candidacy for a master's degree (see Page 8).

A student in category 540 who is not admitted to master's candidacy after completing 12 semester hours is transferred to category 510, unless the graduate dean grants a time extension.

Category 550 is for students admitted to candidacy for a master's degree. Students can be transferred from category 550 to category 510 if their QPA falls below 3.0, or if they do not complete their graduate program within the required six years.

■ Advisers...

Students in categories 520, 530, 540, and 550, along with students enrolled in the Supervisory Certificate Program, are assigned graduate advisers.

The duties of the advisers are:

- to serve as a consultant in planning your program;
- to help you choose courses;
- to certify the courses you do choose as part of your degree program;
- to endorse your application for degree candidacy;
- and to arrange for a comprehensive examination (if required by the graduate program you choose).

The dean of graduate studies, upon recommendation of the department involved, appoints advisers.

Students in category 510 are not assigned advisers, but they regard the dean of graduate studies as their adviser for choosing courses and interpreting academic regulations.

■ Course Information...

Students register for graduate courses through the Registrar's Office, except for students in category 510, who submit registration materials directly to the Office of the Dean of Graduate Studies.

The maximum course load each semester for a full-time student is 12 semester hours. For students employed full-time, however, the maximum course load each semester is six semester hours. For half-time graduate assistants, the maximum course load is six to nine semester hours; for quarter-time graduate assistants, nine to 12 semester hours.

Overloads are rarely permitted.

For summer sessions, the maximum course load is one semester hour per week of full-time course work. (For example, if the summer session is six full weeks, then the maximum course load that session is six semester hours).

Credit is measured in terms of semester hours, at the rate of one

semester hour for 15 hours of lecture-discussion work plus final examinations.

Courses numbered 500 or higher in this catalog (the last three digits of the course number) are graduate courses. Courses numbered lower than 500 in this catalog are also open to advanced undergraduates. Graduate students may apply only 12 semester hours of courses numbered lower than 500 toward a master's degree.

■ Transferring Credits...

You may transfer up to six semester hours in graduate courses taken at another approved college or university. You must have taken the courses or courses in residence, and they must cover content required in your master's program at Bloomsburg. Also, you must have earned a grade of B or higher. Pass/fail grades are not accepted.

■ Grades...

Grades for graduate courses are:

- A — Distinguished, scholarly work that exhibits independence and intellectual maturity (4 quality points)
- B — Good (3 quality points)
- C — Fair, acceptable work toward a master's degree program, within limits (2 quality points)
- D — Not acceptable in a master's degree program (1 quality point)
- E — Failing work (0 quality points)
- I — Incomplete; work must be completed within four months unless the dean of graduate studies extends the period for adequate reason. If the work is not made up, the grade is changed to N, and the student is denied further opportunity to complete the work.
- RI — Removal of incomplete grade.
- N — No grade, no credit.
- R — Research in progress.
- W — Withdrawn with approval of the dean of graduate studies. (The graduate student must apply to the dean for permission to withdraw. If this permission is requested before midpoint of the semester, the grade is W. If

the withdrawal is after the midpoint of the semester, the grade is W if the student is passing the course, and E otherwise. The registrar establishes the semester's midpoint).

V — Audit

CR — Course repeated.

To figure QPA, follow this process: 1. multiply the number of qualifying points for each grade by the number of semester hours for that course; 2. add these points; 3. divide this total by the sum of the semester hours for all grades used in your computation. When a course has been repeated, use only the last entry. (A course may be repeated only once).

■ Examinations...

As part of your master's degree requirement, a comprehensive examination might be required. Also, an examination in defense of a master's thesis is usually required of students who choose to write a thesis.

■ Master's Thesis/Departmental Paper...

If a master's thesis is included in the student's program, a committee is appointed by the dean of graduate studies from individuals nominated by the student's adviser. The committee guides the study, approves the thesis in both form and content, arranges for the defense, certifies satisfactory completion of the thesis, and determines the grade.

Some master's degree requirements include a departmental paper. Such a paper is interpreted as one that grows out of a course and therefore does not require special registration or carry its own credit. Completion of a departmental paper must be certified by the adviser as part of the application for graduation.

ADMISSION TO CANDIDACY FOR A MASTER'S DEGREE . . .

Each program that leads to a master's degree at Bloomsburg University requires at least 30 semester hours of graduate credit. Courses with grades below a C earn no credit toward a master's degree.

Students must meet the following conditions for admission to candidacy for a master's degree:

- The student must be in category 540.
- Transcripts of all undergraduate and previous graduate study must be on file with the dean of graduate studies.
- Students should apply for candidacy after completing nine semester hours of graduate work; students *must* apply for candidacy before completing 12 semester hours. Under certain circumstances, the dean may grant an extension.

- The application must be endorsed by the student's adviser.
- Students applying for candidacy for the Master of Education degree must have evidence of a valid teaching certificate.

Your admission for candidacy to a master's degree might be deferred if courses you need are unavailable because of limited class size. If this happens, you'll be put on a priority waiting list for required courses.

Once you have been accepted as a candidate for a master's degree, you are eligible to use the service of Bloomsburg University's Career Development and Placement Center.

■ Graduation...

You must have a cumulative QPA of 3.0 or higher to graduate with a master's degree from Bloomsburg.

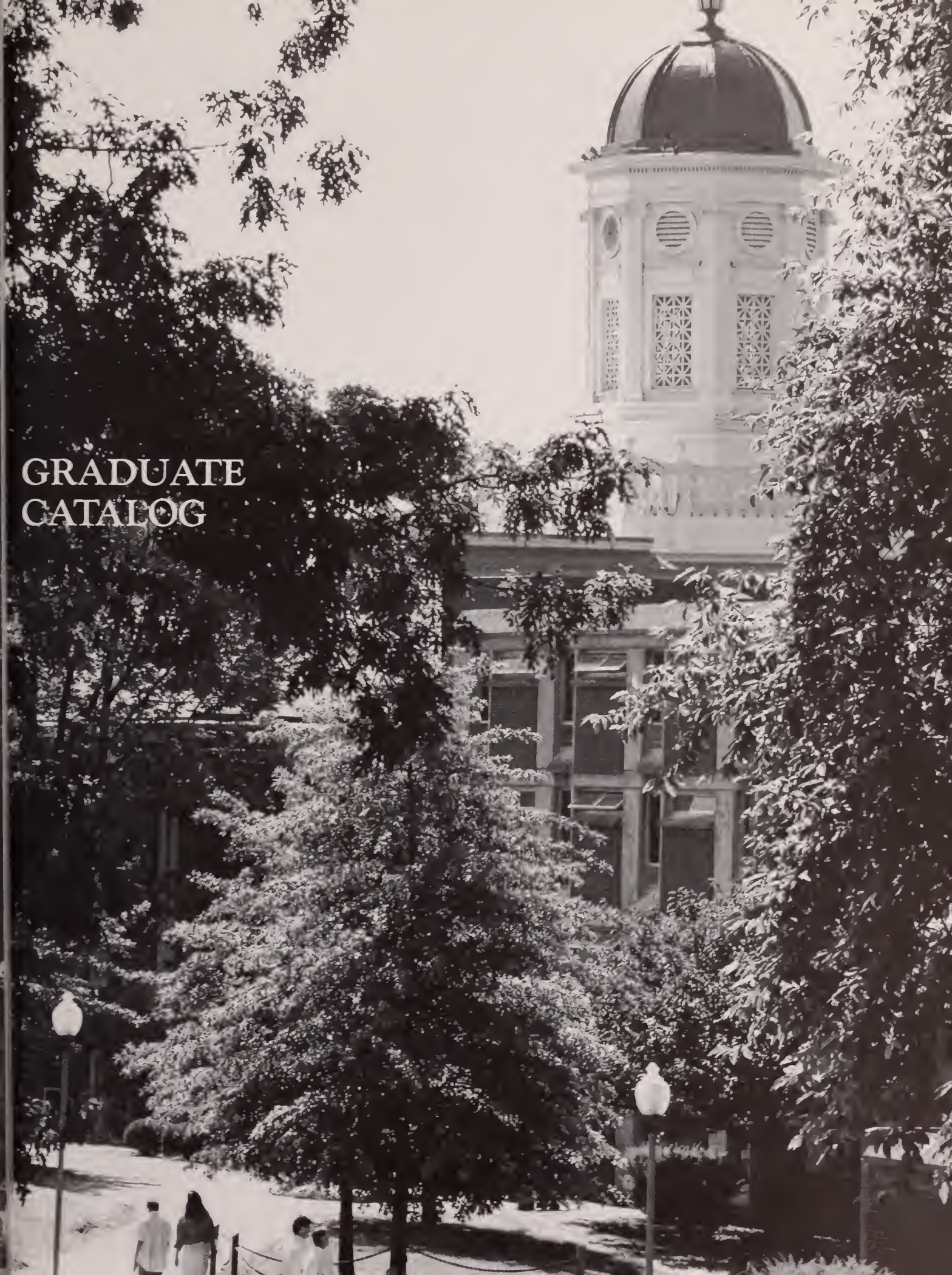
The graduate calendar on Page 2 of this catalog gives deadlines for applying for graduation, completion of thesis and department papers, comprehensive examinations, etc. These are deadlines, but you should plan to complete each segment before the due date, whenever possible.

You may request a graduate transcript through the Registrar's Office. This may be done by letter, or by filling out a form available at the Registrar's Office. Cost per transcript is \$2.

■ Accreditation...

Bloomsburg University is accredited by the Commission of Higher Education for the Middle States Association of the Colleges and Schools and the National Council for the Accreditation of Teacher Education.





GRADUATE
CATALOG

INTERDISCIPLINARY STUDIES

Interdisciplinary courses listed in this section are planned by more than one department. The courses are sometimes taught by teams of faculty members. The student should consult his or her adviser to determine the appropriateness of these courses for a particular degree program.

COURSE DESCRIPTIONS

Interdisciplinary Courses (Code 09)

09.401 HISTORY AND POLITICS OF THE USSR

3 semester hours

This course seeks to give students sufficient background in history and political science to enable the student to better understand the USSR. It will provide them with some of the major developments in the Soviet Union since 1917 in order to make contemporary affairs in that country more understandable. Combining lectures, films, slides, outside speakers, readings, and discussion, it will serve to give them sufficient background to more readily evaluate what they will experience while in the USSR.

09.427 SOCIALISM: THEORY AND HISTORY

3 semester hours

A survey of socialist philosophies from Biblical times to present concentrating on the theories of Marx, Engels, Lenin, and Mao and including review of the major historical events surrounding socialist development.

09.580-589 SPECIAL TOPICS

1-3 semester hours

Special Topics provides an opportunity for graduate students from any graduate program to expand their knowledge from a previously learned experience or to explore a new learning experience not offered on a regular basis. Each special topics course can carry from one to three semester hours. Prerequisites for each special topic will be determined by the instructor.

09.590 GRADUATE INTERNSHIP

1-6 semester hours

Provides a work-study experience jointly administered by an academic faculty member and a sponsoring employer. This course also provides the opportunity for an internship experience across disciplines at a graduate level.

09.599 MASTER'S THESIS

3-6 semester hours



COLLEGE OF ARTS AND SCIENCES

Master of Arts in Communication

Entrance Requirements:

- A bachelor's degree from a recognized college or university with a minimum overall QPA of 2.75 and a QPA of 3.0 on a 4.0 scale in the major.
- A minimum of 2-3 basic speech communication courses including, but not limited to, public speaking, interpersonal communication, survey of communication, persuasion, business communications, etc. Applicants without such preparation will be expected to enroll as auditors in 25.104 Interpersonal Communication and/or other course(s) as determined by the graduate committee.
- Three letters of recommendation from undergraduate professors or others who have the ability to comment on the applicant's potential to successfully complete a graduate program.
- The Graduate Record Exam (GRE) with a minimum score of 950 combined on the verbal and quantitative tests.
- A one-page statement describing the student's objectives, goals, and direction in enrolling in the program.
- Applicants who do not meet each of the requirements may request an interview with program graduate faculty to discuss special circumstances or may petition in writing for a waiver of the entrance requirement(s).

Completion Requirements:

- A minimum of 30 graduate credits must be earned.
- The following four core courses are required:
 - 23.501 Nature of Communication
 - 23.502 Interpersonal Communication
 - 25.445 Organizational Communication
 - 25.501 Introduction to Communication Research
- Beyond the core courses, students will select classes in keeping with their specific academic and career interests in consultation with the graduate adviser.

- At the conclusion of the semester in which students complete 24 semester hours of coursework, an application for a comprehensive examination must be filed. The comprehensive is a six hour essay test that examines students' knowledge of philosophy, theory, and application of material covered in courses taken to that point but must include at least three of the four core courses.
- The comprehensive examination will be read and evaluated by at least three members of the graduate faculty.
- In the event of failure on the examination or any part thereof, the student will be given one opportunity to retake the part(s) failed.
- Students anticipating continued graduate work in a doctoral program are recommended to enroll in **23.598 Master's Research Project**. This option would be taken in lieu of one three credit course not including core courses.

Retention Requirements:

- Students must maintain a minimum of 3.0 GPA for all courses taken.
- A minimum grade of B must be earned in each of the four core courses. Students unable to meet this requirement may be given the opportunity to retake a course after a review of special circumstances by the graduate faculty committee.

Elective Courses:

- A minimum of nine semester hours of courses offered by the Department of Communication Studies.
- A maximum of nine semester hours of courses offered in other departments as approved by the student's adviser.



COURSE DESCRIPTIONS

Communication

(Code 23)

- 23.501 NATURE OF COMMUNICATION**
3 semester hours
Primarily a theoretical survey of the major categories of the field of communication.
- 23.502 INTERPERSONAL COMMUNICATION**
3 semester hours
A survey of the changing roles of laws, customs, and expectations as they relate to social interaction between people of one culture or of different cultures.
- 23.503 NON-PRINT MEDIA**
3 semester hours
A survey of the history and theory of radio, television, and film. Theoretical emphasis combined with practical experience gained through field trips and media projects.
- 23.504 PRINT MEDIA**
3 semester hours
An in-depth examination of publishing from the historical, theoretical, and other critical viewpoints.
- 23.598 MASTER'S RESEARCH PROJECT**
3 semester hours
Independent research on a topic approved by the student's adviser(s).

Communication Studies

(Code 25)

- 25.445 ORGANIZATIONAL COMMUNICATION**
3 semester hours
An explanation of theoretical and practical aspects of how communication patterns develop in organizations.
- 25.501 INTRODUCTION TO COMMUNICATION RESEARCH**
3 semester hours
An overview of the fields of research in communication and an examination of the contributions of professional speech communication organizations, graduate studies, and research. Historical, descriptive, experimental, and evaluating research studies are examined. A pilot thesis is required of each student to demonstrate competency in research techniques and the use of bibliographical resources.
- 25.502 RHETORICAL CRITICISM**
3 semester hours
The nature of rhetorical criticism. The development of rhetorical theory from the Homeric period to the modern

theorists. Methods of the critics during antiquity, the intermediate period (1600-1850), and methods of the modern critics.

- 25.503 HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS**
3 semester hours
Evaluation and discussion of the development and application of rhetoric in America in terms of the speaker, speech, and times. American speakers selected from a cross-section in history prestudied from the viewpoints of biographical background nature, and extent of speaking, audience reaction, the speaker's basic ideas, his or her preparation, arrangement and style, basic philosophy, and platform behavior.
- 25.504 BRITISH ORATORY**
3 semester hours
Burke, Fox, Sheridan, George, Bevan, Churchill, and other orators in the 17th through the 20th centuries. Analysis of style, philosophies, effectiveness, and their contribution to rhetoric theory.
- 25.505 ANCIENT RHETORIC**
3 semester hours
The ancient rhetoricians Aristotle and Plato, Cicero, Longinus, and Quintilian. Emphasis is on the analysis and critical concepts of these men with a study of later interpretations of their works.
- 25.510 CURRENT PROBLEMS IN SPEECH ACTIVITIES**
3 semester hours
Current speech practices in the secondary school. Methods of initiating, improving, and expanding speech programs.
- 25.515 ADVANCED PERSUASION AND PROPAGANDA**
3 semester hours
Techniques of attitude modification through persuasion and propaganda. Practical application of the techniques by each student.
- 25.520 ADVANCED ORAL INTERPRETATION**
3 semester hours
Understanding and appreciation of literature through developing skill in reading aloud. Selecting, adapting, and preparing material for presentation in high school classes.
Prerequisite: Consent of the instructor
- 25.530 ADVANCED RADIO AND TELEVISION**
3 semester hours
Practice and study of techniques of television announcing, writing (news and drama), directing, program planning, and performing. Instructional radio and television. Laboratory hours required.
Prerequisite: Beginning course in radio and television

25.585 SPECIAL TOPICS IN COMMUNICATION
3 semester hours
 Specialized study by the class. The subject varies by semester.

25.586 SPECIAL TOPICS IN COMMUNICATION
3 semester hours

25.587 SPECIAL TOPICS IN COMMUNICATION
3 semester hours

25.590 MASTER'S RESEARCH PAPER
3 semester hours

Mass Communications (Code 27)

27.511 TELEVISION PRODUCTION AND DESIGN
3 semester hours
 Course focuses on the practical aspects of planning and producing video tapes for specific instructional purposes. Covers pre-production planning, production activities, and post-production editing.

Masters of Arts in Art Studio and Art History

Program Description:

The Master of Arts program in art studio emphasizes the development of creative and scholarly competencies in one or more of the following studio areas: drawing, ceramics, crafts, graphics, painting, or sculpture with concurrent or parallel work in the areas of art history, the philosophy and psychology of art, art education, and visual aesthetics for a minimum of 30 credits.

The Master of Arts in art history program is designed to provide an advanced knowledge base, writing proficiency, and research skills enabling the student to pursue a variety of professional options. A minimum of 30 credits is required including a thesis based on the student's area of interest. In conjunction with the student's committee an individualized program of study will be designed. Opportunities for interdisciplinary and off-campus experience are available.

Admission Requirements:

Students may apply under either of two admission plans. Students applying for admission under Plan I must have earned a baccalaureate degree in art (B.A., B.F.A., or B.S. in art education) from an accredited institution of higher education.

Students applying for admission under Plan II who have not graduated with a curriculum in art must meet not only the general graduate school requirements for admission but also the requirements established by the Department of Art.

Initial admission materials must include official transcripts of grades, an 8 x 10 inch plastic sleeve of slides representative of one's creative work for art studio majors and a one-page statement of one's objectives and philosophy. Upon acceptance, students are required to appear for a personal interview with the department chairperson and an adviser to be assigned in their major field. At this time, any deficiencies will be noted and a course of study planned. A thesis and exhibition of creative work also are required as part of the program of study for art studio majors.

Course Offerings:

The Master of Arts program is consistent with the Art Department's present philosophical goals and will be a continuation of the present undergraduate level program. The unique multilevel studio offerings, which allow students of different degrees of experience (different levels of discipline) to work within one studio, provides a natural structure for further advanced-level work.

The goals of the curriculum are to develop the full potential of each candidate through a personalized program of study which will emphasize the communicative power of the individual's personal, mature, and unified statement through research and one's works of art.

The faculty of artist-teachers, each of whom are specialists in their respective disciplines, will provide the variety of approaches and instruction needed in each area of concentration.

Areas of Concentration for Advanced Study:

The six areas of concentration available to graduate students for advanced study in art studio include:

32.500, 01, 02, 03	Advanced Ceramics I, II, III, IV
32.510, 11, 12, 13	Advanced Drawing I, II, III, IV
32.520, 21, 22, 23	Advanced Crafts I, II, III, IV
32.530, 31, 32, 33	Advanced Graphics I, II, III, IV
32.540, 41, 42, 43	Advanced Painting I, II, III, IV
32.550, 51, 52, 53	Advanced Sculpture I, II, III, IV

32.593 Advanced Independent Study in the Studio Arts

Graduate Courses in Art History:

31.560	Readings and Research in Contemporary Art History
31.565	Readings and Research in American Art History
31.570	Readings and Research in Early European Art History
31.571	Readings and Research in Later European Art History
31.575	Readings and Research in Oriental Art History

- 31.580 Readings and Research in Architectural Art History
- 31.585 Art and Culture of France
- 31.592 Readings and Research in Advanced Visual Aesthetics
- 31.595 Directed Study in Art History
- 30.590 Current Theories in Art and Art Education
- 30.591 Visual Arts for the Exceptional Child
- 30.595 Master's Thesis

All the preceding courses in art studio and art history carry three semester hours credit, except for 32.593 Independent Study which carries variable credit and 30.595 Master's Thesis with 3 - 6 credits.

Art Gallery, Permanent Art Collection, and Slide Collection

The department operates the Haas Gallery of Art, which features monthly exhibitions of varied art forms. A special exhibition of student art work is held annually, and an exhibition organized and planned by students in the art gallery course is held in the spring of each year. In addition, an art student intern maintains a small art gallery space in the Presidents' Lounge of the student union.

The Department of Art maintains an extensive permanent art collection of more than 300 pieces with works displayed throughout the campus. In the seminar room, a student slide curator assists in classifying, cataloging, and filing over 40,000 units contained in the department's 35mm slide collection.

COURSE DESCRIPTIONS

General and Art Education

(Code 30)

30.590 CURRENT THEORIES OF ART AND ART EDUCATION

3 semester hours

This course will focus on current theories of art and art education practiced in American schools with an emphasis on eventual application. A research paper or research project will be required.

30.591 ADVANCED VISUAL ARTS FOR EXCEPTIONAL CHILDREN

3 semester hours

The importance of art activity as a means of enriching and stimulating a special child's awareness of himself and his world is stressed. Emphasis is placed on those positive aspects for creative activity which the handicapped child possesses.

30.595 MASTER'S THESIS

3-6 semester hours

Art History

(Code 31)

31.560 READINGS AND RESEARCH IN CONTEMPORARY ART HISTORY

3 semester hours

A detailed study of contemporary movements in art from the late 19th century to the present with readings and research for advanced students.

31.565 READINGS AND RESEARCH IN AMERICAN ART HISTORY

3 semester hours

Advanced study of the history of visual art in America.

31.570 READINGS AND RESEARCH IN EARLY EUROPEAN ART HISTORY

3 semester hours

The research focus for this course will be on specific topics relating to the periods from Pre-Historic to the Gothic.

31.571 READINGS AND RESEARCH IN LATER EUROPEAN ART HISTORY

3 semester hours

The period from the early Renaissance through French Impressionism provides the thrust for this course.

31.575 READINGS AND RESEARCH IN ORIENTAL ART HISTORY

3 semester hours

This course is intended to be an advanced survey of Oriental Art in the broadest sense of the word: the art and architecture of the ancient Near East, Japan, China, and India. An introduction to both monuments and cultural ideas, the course exposes the advanced student to basic problems in chronology, style, and research methodology.

31.580 READINGS AND RESEARCH IN ARCHITECTURAL ART HISTORY

3 semester hours

An advanced survey of the evolution of architecture in the Western World from the Pharaonic Egyptian period through the contemporary 20th century. Typical and outstanding examples of each period studied will be discussed and researched by the general student. Imperative to an understanding of the physical structures studied will be an analysis of the type of society and the rationale for the creation of such an architecture.

31.585 ART AND CULTURE OF FRANCE

3 semester hours

A study-tour of France with specific attention to French Art seen in relation to its social and cultural environment. Visits will be made to places of artistic and cultural interest in and around Paris and specific areas of France where the emphasis is for the particular course of study.

The course also will be offered under the School of Extended Programs for advanced students and members of the community.

**31.592 READINGS AND RESEARCH IN
ADVANCED VISUAL AESTHETICS**
3 semester hours

Advanced study of images and viable aesthetic positions in the plastic arts emphasizing artistic and perceptual awareness and concern with environmental relationships.

**31.595 DIRECTED STUDY IN ART
HISTORY**

3 or 6 semester hours

The advanced study of a topic in the area of art history. Following an intensive review of the scholarly literature in the field, a paper, meeting contemporary standards of publication in the field, will be required under the direction of a faculty adviser.

Art Studio
(Code 32)

32.500 ADVANCED CERAMICS I
3 semester hours

The student will define in writing his present level of knowledge and competency. From this information, he or she can then prepare a plan of study that will allow for a direction of work. The student will be responsible for making and firing his or her own work.

32.501 ADVANCED CERAMICS II
3 semester hours

At this level, the student will intensify his or her study by selecting a specialized problem relating to the experiences gained in Advanced Ceramics I.

32.502 ADVANCED CERAMICS III
3 semester hours

The student will continue to pursue an advanced and refined level of study in the discipline of creating an art object. A specialized problem relating to the experiences gained in the first two levels will facilitate a continuity in learning.

32.503 ADVANCED CERAMICS IV
3 semester hours

At this level, the student's work should reflect a professional and philosophical attitude. Students will be required to have an exhibition of their work.

32.510 ADVANCED DRAWING I
3 semester hours

An exploration of advanced drawing techniques and involvement of personal expression and imagery will be required.

32.511 ADVANCED DRAWING II
3 semester hours

Emphasis will be on the development of individual themes and projects.

32.512 ADVANCED DRAWING III
3 semester hours

Focus on personal expression and imagery for potential thesis statement — self-direction and innovation.

32.513 ADVANCED DRAWING IV
3 semester hours

Concentration and production of drawings for a unified thesis statement.

32.520 ADVANCED CRAFTS I
3 semester hours

Advanced levels of experimentation with contemporary idioms in crafts design. Emphasis on highly professional concepts of form and methods and on investigation and refinement of techniques as a means of realizing significant visual statements in crafts. Individualized instruction and independent planning for each student on all four levels.

32.521 ADVANCED CRAFTS II
3 semester hours

Individual concentration on specific media and related techniques. Intense involvement with refined design schemes, systems, and variations that are oriented toward an increasingly more defined singular direction in crafts.

32.522 ADVANCED CRAFTS III
3 semester hours

Highly independent and mature involvement with advanced concepts, methods, and processes in a specific crafts direction. At this level, students should begin to develop a thesis presentation which should emerge from studio experiences, independent research, and from a wide, highly selective exposure to craft objects in museums, galleries, and private studios.

32.523 ADVANCED CRAFTS IV
3 semester hours

A continued involvement with advanced concepts in crafts. Concentration on completing final works for a one-man or a one-woman show. A definitive position paper reflecting a personal philosophy in crafts should be developed.

32.530 ADVANCED GRAPHICS I
3 semester hours

Advanced level exploration of traditional and/or experimental printmaking methods. Emphasis on personalized imagery and technical proficiency.

32.531 ADVANCED GRAPHICS II
3 semester hours

Exploration of advanced level printmaking including color and color registration procedures.

32.532 ADVANCED GRAPHICS III
3 semester hours
Focus on personalized forms for potential thesis statement. Students are expected to be innovative and proficient in the technology of printmaking.

32.533 ADVANCED GRAPHICS IV
3 semester hours
Concentration on the selected forms for a unified thesis statement.

32.540 ADVANCED PAINTING I
3 semester hours
Search into purpose of painting with specific attention to traditional methods, i.e., glazing, egg tempera, and underpainting.

32.541 ADVANCED PAINTING II
3 semester hours
Exploration into different approaches of painting for individual expression. Achieving in representational painting.

32.542 ADVANCED PAINTING III
3 semester hours
Continued development into maturity of individual style — special emphasis on mural painting designed into architectural space.

32.543 ADVANCED PAINTING IV
3 semester hours
Mature fulfillment of personal expression. Painting should reflect continuity of intent and style. A selection of work will be prepared for exhibition and thesis.

32.550 ADVANCED SCULPTURE I
3 semester hours
Students will define in writing their present level of knowledge and philosophical direction. From this information, they will prepare a plan of study that will allow for a direction of work. Students will be responsible for the completion of show quality pieces during the course.

32.551 ADVANCED SCULPTURE II
3 semester hours
The student will continue to experiment while still being concerned with the concept form. At this level, more positive philosophical ideas should begin to grow and be developed.

32.552 ADVANCED SCULPTURE III
3 semester hours
At this level, the student's work should reflect a significant transition from experimentations to a more definite direction in technique and aesthetic opinion.

32.553 ADVANCED SCULPTURE IV
3 semester hours
The student will continue to produce highly professional pieces of art while maintaining an awareness of his or her responsibility to society. This responsibility will be fulfilled by an exhibition of the student's work for his or her thesis.

32.580 ADVANCED PHOTOGRAPHY I
3 semester hours
The course will develop historical foundations, technical skills, and the creative conceptual component of photography as art.

32.581 ADVANCED PHOTOGRAPHY II
3 semester hours

32.582 ADVANCED PHOTOGRAPHY III
3 semester hours

32.583 ADVANCED PHOTOGRAPHY IV
3 semester hours

32.595 DIRECTED STUDY IN STUDIO ART
3 or 6 semester hours
Continued development of a student's involvement in one of the selected studio areas after satisfactory completion of four levels of advanced study in that area. Consent of the instructor and the department chairperson is required.



COURSE DESCRIPTIONS

Economics

(Code 40)

- 40.513 ORIGIN AND DEVELOPMENT OF CAPITALISM**
3 semester hours
Transition from feudalism to capitalism and the subsequent influence of leading capitalist institutions on industry, agriculture, commerce, banking, and the social movement.
- 40.514 LABOR ECONOMIC THEORY**
3 semester hours
The emphasis of the course is on labor economic theory and its application in analyzing the issues of employment and inflation. Topics discussed include growth of the labor force and its composition, wage theories and wage structures, trade unionism and income distribution, economics of poverty, minimum wage, and hour laws, and civil legislation. Occupational choices, job search, labor mobility, and human capital formation also are included. Students are exposed to research and measurement methodology to meet the research requirements of the course.
- 40.515 PUBLIC POLICY AND BUSINESS**
3 semester hours
Public policies affecting the economy: historical, philosophical, and legal basis of regulation; the rationale of free enterprise. Intensive analysis of selected areas of economic policy related to government action.
- 40.531 CURRENT ECONOMIC PROBLEMS**
3 semester hours
Selected economic problems of current interest and concern to our society. Basic economic principles and theories and the thinking of recognized economists of the past and present as revealed in their published works.
- 40.532 COMPARATIVE ECONOMIC SYSTEMS**
3 semester hours
A comparison of the workings and performance of the major forms of economic organization. The capitalist systems; the modern welfare states; state capitalism; communism; and socialism.
- 40.533 INTERNATIONAL ECONOMIC POLICIES AND RELATIONS**
3 semester hours
Application of modern international economic and financial analyses to emerging contemporary problems of nations trading with one another. Selected topics include customs unions; optimum currency area; international cartels; and flexible exchange rates. Impact of governmental and intergovernmental relations and regulations.

Political Science

(Code 44)

- 44.405 THE DEVELOPMENT OF POLITICAL THOUGHT**
3 semester hours
A chronological survey from the ancient Greeks to the present is undertaken to present the ideas of seminal political thinkers as they grappled with perennial problems.
- 44.409 AMERICAN POLITICAL THOUGHT**
3 semester hours
Analyzes the relationship of American political thought to contemporary political science by using traditional materials in an historical, chronological way but reworking them to show their relation and relevance to actions and institutions. Included are the main ideas of the leading political thinkers in America from the Colonial period to the present.
- 44.437 PUBLIC ADMINISTRATION APPLICATIONS**
3 semester hours
This course operationalizes the theory of public administration by using simulations and cases.
(Offered spring semester only.)
- 44.438 PUBLIC PERSONNEL ADMINISTRATION**
3 semester hours
Public service as a career, the personnel needs of national and local governments, civil service law, personnel systems, and current problems.
- 44.440 THE PRESIDENT AND CONGRESS**
3 semester hours
Reviews presidential and congressional politics, public policy-making roles, executive-legislative relationships, constitutional issues. Examines problem areas and proposals for reform.
- 44.446 CONSTITUTIONAL LAW I**
3 semester hours
Analysis of the evolution, structure, and function of the Supreme Court, concentrating on a case study approach of the court's interpretations of the powers of the president, Congress, and federal-state relationships.
(Offered fall semester only.)
- 44.447 CONSTITUTIONAL LAW II**
3 semester hours
Studies the decisions of the Supreme Court as they are related to the individual and the government, concentrating on nationalization of the Bill of Rights, rights of persons accused of crimes, equal protection, and voting rights.
(Offered spring semester only.)

44.448 JUDICIAL PROCESS
3 semester hours
Studies policy-making by the federal courts, primarily the Supreme Court. The nature of the policy-making function as well as the impact of policy-making on American society also are analyzed.

44.452 STATE AND LOCAL GOVERNMENT AND POLITICS
3 semester hours
Presents a description and analysis of state and local legislatures, executives, and judiciaries; the myths and realities of state and local politics; intergovernmental relations; current policies and problems.
(Offered spring semester only.)

44.458 U.S. FOREIGN POLICY
3 semester hours
Analyzes the substance, methods, and purposes of U.S. foreign policy including the determinants of policy, policy-making machinery, and implementation matters.

44.463 THE USSR POLITICAL SYSTEM
3 semester hours
Studies the history, development, ideology, structure, process, institutions, and policies of the Soviet political system.

44.464 GOVERNMENT AND POLITICS OF IRELAND
3 semester hours
Presents a survey of historic, social, cultural, and religious developments in Ireland with concentration on a study of the government and politics of Northern Ireland and the Irish Republic. Examines contemporary literature, drama, music, and art.

44.487 INTERNATIONAL LAW AND ORGANIZATIONS
3 semester hours
Presents the theoretical and practical implications of the legal and organizational efforts to regulate international relations with emphasis on international law, the United Nations, the International Court of Justice, and regional and functional organizations.

44.490 INDEPENDENT STUDY IN POLITICAL SCIENCE
3 semester hours
Provides for individualized reading, research, and reporting under conditions of minimal supervision. Projects must have departmental approval and be underway by the end of the first week of a session.

44.491 READINGS IN GOVERNMENT AND POLITICS
3 semester hours
Topics are selected on the basis of close consultation between instructor and student. Designed for either group or individual study.

44.492 SEMINAR IN GOVERNMENT AND POLITICS
3 semester hours
Examines selected problems in government and politics in an attempt to review and unify theories and methods of political science. Emphasizes individualized research projects.

44.496 FIELD EXPERIENCE IN POLITICAL SCIENCE
1-6 semester hours
Provides for supervised individual or group activities including internships of a non-classroom variety in applied areas of political science.

Sociology (Code 45)

45.441 SOCIAL INDICATORS
3 semester hours
Attempts to reinforce and extend earlier learning in research techniques and methods by focusing upon systematic step-by-step understanding, analysis, and preparation of social indicators at the federal, state, and local levels of social policy planning and analysis. Promotes understanding of social indicators and the use of these indicators within all levels of society.

45.443 SOCIOLOGY OF DEVIANT BEHAVIOR
3 semester hours
Evaluates the presence and function of deviance in society. Includes mental illness and various types of crime and stigmatized behavior. Examines how it is handled therapeutically and legally through institutionalization and treatment. Attempts to provide a broad theoretical perspective as well as concrete examples of deviance in any society. Examines current methods of rehabilitation and punishment.

45.450 SOCIAL WORK PROCESSES II
3 semester hours
Utilizes problem-solving interventions in small groups integrating social work knowledge, skills, and values.
(Offered fall semester only.)

45.451 FAMILY COUNSELING
3 semester hours
This course surveys the major theoretical models for family assessment and intervention with primary emphasis on ecological systems. A working knowledge of rudimentary assessment and intervention skills for problem solving with families is acquired.

45.453 SOCIAL WELFARE POLICY
3 semester hours
Frameworks for analyzing social and economic policies will be presented with special focus on legislative, judicial, and administrative policies.
(Offered spring semester only.)

**45.465 COMPUTER APPLICATIONS
IN THE SOCIAL SCIENCES**
3 semester hours
Presents an introduction to computer use for the social sciences (through use of SPSS). Emphasizes translating questions into data analysis and interpretation of statistical results.
Prerequisites: 45.260 or similar statistics course (Offered spring semester only.)

45.467 POPULATION PROBLEMS
3 semester hours
Studies human population, its major theories, distributions, composition, changes, and future developments of population, and impacts of population problems on society as influenced by vital processes.

45.468 SOCIAL SERVICE PLANNING
3 semester hours
Provides an advanced consideration of the social context of the development of social policy, planning, and implementation of social and/or human services at federal, state, and local levels of organization. A critical analysis of the social effects of social policy, planning, and services on people in a service-oriented, post-industrial society.

**45.474 CONTEMPORARY
ENVIRONMENTAL ISSUES**
3 semester hours
Examines some major human problems that lead to environmental deterioration, particularly water, air and noise pollution, energy, and other resource depletion and increasing population density.

45.490 SOCIOLOGY OF AGING
3 semester hours
Studies aging, its major theoretical themes, patterns of living, sociopsychological and cultural consequences of aging. Examines the contemporary issues, problems, and programs of the aging.

**45.500 SOCIOLOGY OF MASS
COMMUNICATION**
3 semester hours
An in-depth discussion of the cognitive and behavioral affects of mass media, especially television on audiences, the social structure of communications industry, particularly its influence on media content and the political use of mass media. Students will critique the latest research articles in the field.

45.511 SOCIAL INSTITUTIONS
3 semester hours
Sociological examination of major institutions in the U.S. cross-culturally compared with those in other societies. Specific institutions will be selected depending on the interest of the students and faculty.

**45.513 ADOLESCENTS IN AMERICAN
SOCIETY**
3 semester hours
Studies the role of adolescents in contemporary U.S. society with special emphasis on the adolescent's social interactions in groups and institutions.

**45.523 THE CONTEMPORARY AMERICAN
COMMUNITY**
3 semester hours
An advanced examination of the social dynamics of community life, its institutions, organizations, and people within the context of the development of post-industrial society.

45.525 CURRENT SOCIAL ISSUES
3 semester hours
Analysis of current social issues and solutions offered to solve them. Issues and solutions are explored within the broad framework of the social sciences and specific framework of sociological and anthropological data.

Anthropology (Code 46)

46.440 LANGUAGE AND CULTURE
3 semester hours
A study of the place of oral or non-oral language in human evolution and contemporary cultures. Topics discussed include dialectal variation, discourse analysis, multilingualism, language, and cognition and the role of language in education.

**46.450 CULTURE AND ECOLOGY
OF SOUTH AMERICA**
3 semester hours
A survey introduction to the aboriginal, non-literate cultures of South America including the ecological background, archaeology, and cultural patterns.

**46.470 HISTORY OF ANTHROPOLOGICAL
THOUGHT AND THEORY**
3 semester hours
This course surveys intensively the leading methods and theories of anthropological and ethnological interpretation with special emphasis on the concept of culture and its practical application to modern problems.

Psychology (Code 48)

48.406 PSYCHOLOGY SEMINAR
3 semester hours
Provides for an advanced consideration of significant topics in psychology. Requires reports and discussions of current research and may be repeated with change in topic.
Prerequisite: 48.101 and consent of the instructor

48.436 THEORIES OF PERSONALITY
3 semester hours
Provides a critical study of theories explaining development, structure, and organization of personality. Considers personality from psychoanalytic, social, individual, self, and learning points of view.
Prerequisite: 48.101
(Offered fall semester only.)

48.451 LABORATORY TRAINING IN GROUP PROCESSES
3 semester hours
Offers on-going experience on topics including norm-setting, leadership, problem solving, role playing cooperation/competition, and decision making. Class size limited to 20 students.
Prerequisite: 48.101 and consent of the instructor
(Offered spring semester only.)

48.453 ORGANIZATIONAL PSYCHOLOGY
3 semester hours
Describes the application of psychological theory and research to the study of industrial, business, profit, and nonprofit service, military and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics, and organizational climate and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations.
Prerequisite: 48.101, 251
(Offered spring semester only.)

48.464 ADVANCED EXPERIMENTAL DESIGN
3 semester hours
Presents an advanced consideration of the planning, conduct, and evaluation of research in the behavioral and biological sciences, employing parametric and non-parametric statistics. Emphasizes inferential statistics, design, analysis, interpretation, and computer utilization.
Prerequisites: 48.101, 160, 281, 282, or consent of the instructor

48.466 INDEPENDENT STUDY IN PSYCHOLOGY
3 semester hours
Provides for the study of a topic via either review and research of technical psychological literature or empirical manipulation of variables in the field or laboratory under supervision of a psychology faculty member resulting in a written report of its outcome.
Prerequisites: Consent of the instructor and departmental approval

48.497 PSYCHOLOGY PRACTICUM
3-15 semester hours
Provides application of psychological knowledge through study, observation, and practice in a community, college, or business setting. May be repeated for a total of 15 semester hours.
Prerequisites: Consent of the instructor

48.525 INDIVIDUAL INTELLIGENCE TESTING
3 semester hours
Analyzes the nature and rationale of various individual tests of intelligence. Provides skills and methods in administering tests and in scoring, interpreting, and reporting results.

48.576 THEORIES OF HUMAN LEARNING
3 semester hours
Studies the historical and contemporary learning systems and models which yield principles for practical application.

Master of Science in Biology

Purpose:

This program is intended to prepare the student either for admission to a research-oriented doctoral program in biology or employment in a biology or health-oriented profession.

Prerequisite:

An undergraduate degree in biology or its equivalent. Undergraduate deficiencies must be made up without credit toward the master's degree. The applicant is required to present GRE scores including those from the advanced section.

Thesis Option:

Requirements: 30 semester hours, of which 12 semester hours must be in courses numbered 500 or above and the remainder in courses numbered 400 or above. A limited number of courses in other areas may be included on approval of the department if they are clearly supportive of the biology major. A 6-credit thesis (50.593 Master of Science Thesis) also is required.

Non-Thesis Option:

Requirements: 30 semester hours, of which 18 semester hours must be in courses numbered 500 or above and the remainder in courses numbered 400 and above. A non-credit research paper and a written comprehensive examination covering the student's graduate course work also are required. A limited number of courses in other areas may be included on approval of the department if they are clearly supportive of the biology major.

Examinations:

A seminar presentation of the thesis or required paper (non-thesis option) and its results must be given during the term in which the degree is to be granted; a written and/or oral comprehensive examination administered by a commit-

tee from the department is part of the non-thesis option. An oral candidacy exam is required for both options.

Foreign Language:

Proficiency in a foreign language is strongly recommended.

Master of Education in Biology

Purpose:

This specialization is intended to enhance the competence of secondary school teachers of biology by extending their scholarship in content and method through formal courses and independent study and research.

Prerequisite:

An undergraduate major in biology with Level I Certification; background in mathematics and chemistry adequate for the courses and research to be undertaken. Undergraduate deficiencies must be made up without credit toward the degree prior to departmental recommendation for candidacy.

Required Courses:

- 50.591 Directed Study in Biology or 50.592 Master of Education Thesis to fulfill the research requirement. Also, 60.501 Major Philosophies of Education and 79.591 Research in Education.

Elective Courses:

- Courses are to be chosen with the approval of the department graduate committee. A minimum of 18 semester hours must be in courses numbered 500 or above.

Examination:

- A seminar presentation of the thesis or directed study and its results must be given; a written and/or comprehensive examination also may be required. An oral candidacy exam is required.

Application to the Program:

Application materials are available through the Graduate Office located in the Waller Administration Building. The applicant for either the M.S. or the M.Ed. degree also is requested to submit GRE scores including the advanced scores in the biological sciences.

The Department of Biological and Allied Health Sciences encourages students to apply for graduate assistantships for both the academic year and the summer. Contact the Graduate Committee chairperson of the Biological and Allied Health Sciences Department for application information.

COURSE DESCRIPTIONS

Biology

(Code 50)

50.411 RADIATION BIOLOGY

3 semester hours

Studies effects of radiation on living organisms; nuclear structure fundamental properties of radiation; physical, chemical, and organisms; application of radiochemicals in biological studies. Minimum of 4 hours per week including laboratory.

Prerequisite: 50.232, 233, 53.141, or consent of the instructor

50.431 EVOLUTION

3 semester hours

Studies the major concerns of the theory of evolution and contributions toward their solutions made by genetics, paleontology, systematics, and ecology. Three hours per week lecture.

Prerequisite: 50.110 or 120; 50.332 recommended

50.432 MICROBIAL GENETICS

3 semester hours

A genetic analysis of microbes to provide insights into the molecular basis of gene action using viruses, bacteria, and lower eukaryotes. Topics include DNA and chromosome structure, gene organization and expression, genetic recombination, plasmids, transposons, and recombinant DNA. Three hours lecture/seminar a week.

Prerequisite: Consent of the instructor or two of the following courses — 52.341 Biochemistry, 50.242 General Microbiology, 50.332 Genetics

50.441 CYTOLOGY AND CYTOGENETICS

3 semester hours

Studies the structure and function of cytoplasmic and nuclear organelles of cells. Laboratory studies include techniques for cell, chromosome, and tissue preparation. Two hours lecture, 2 hours laboratory per week.

Prerequisite: 50.332 or 50.233, 52.211 or 52.231 or consent of the instructor

50.450 MYCOLOGY

3 semester hours

A critical survey of the kingdom Fungi with emphasis on the Ascomycota, Basidiomycota, Deuteromycota. Lectures cover morphology, physiology, biochemistry, cytology, genetics, systematics, ecology, and evolution. Laboratory stresses comparative morphology of higher fungi, laboratory techniques, and field mycology. Two hours lecture/ 3 hours laboratory.

50.454 ETHOLOGY

3 semester hours

Presents a description and classification of animal behavior, its evolution, and biological function. Emphasizes mechanisms underlying behavior especially species-typical

behavior. Three hours lecture, 2 hours laboratory per week.

Prerequisite: 50.110 and 50.371 or consent of the instructor

50.455 ENVIRONMENTAL MICROBIOLOGY

3 semester hours

Provides a practical application of knowledge of microorganisms, their effects on our environment, methods of control, sanitation regulations, and testing procedures. Field trips taken when practical. One hour lecture, 4 hours laboratory per week.

Prerequisite: 50.341 or consent of the instructor

50.457 ENTOMOLOGY

3 semester hours

Studies the physiology, morphology, behavior, classification, and general biology of the insects. A collecting period will provide an opportunity for students to collect, mount, and properly display insects for study. Taxonomic emphasis limited to order and family. Equivalent to 5 hours per week including laboratory.

Prerequisite: 50.110 or consent of the instructor

50.459 ORNITHOLOGY

3 semester hours

General biology of birds and the study of bird identification in the field of song and sight. Studies birds of this region in relation to migration, time of arrival, and nesting. Two hours lecture, 3 hours laboratory per week. Some study off campus may be required.

Prerequisite: 50.110 or consent of the instructor

50.462 PLANT ANATOMY

3 semester hours

Outlines recent concepts of plant anatomy and historical consideration of classical researchers. Reviews structure, function, growth, and morphogenesis of the vascular plants. Addresses composition and growth of meristems and the phenomena of subsequent tissue differentiation to increase appreciation of development events. Describes anatomical organization by developmental and comparative methods in order to explain important cell, tissue, and organ relationships. Two hours lecture, 3 hours laboratory per week.

Prerequisite: 50.120

50.463 BIOLOGICAL PHOTOGRAPHIC TECHNIQUES

3 semester hours

Presents theory and practice of photography as applied to biology including negative and printmaking, gross specimen photography, copying, transparencies, filmstrips, autoradiography, nature work in close-ups, photomicrography, thesis illustrations, and other special techniques. Two hours lecture, 3 hours laboratory per week. Additional laboratory hours may be required.

50.471 MEDICAL PARASITOLOGY

3 semester hours

Presents the life history, physiology, taxonomy, and morphology of parasites of medical importance to man. Special attention given to clinical aspects such as pathology, symptomology, diagnosis, prevention, and treatment. Laboratory work stresses identification of parasitic disease through living and preserved material, proper handling of specimens, and methods of professional patient interviewing.

Prerequisite: 50.110 and 52.101 or 52.111

50.472 CELL PHYSIOLOGY

3 semester hours

Applies physical and chemical principles to cellular processes, biochemistry of cellular constituents, physiochemical environment; bio-energetics, intermediate metabolism. Three hours lecture/discussion per week.

Prerequisite: 12 hours of biology/chemistry 52.211 or 52.231 or consent of the instructor

50.473 SYSTEMIC PHYSIOLOGY

3 semester hours

Examines how normal body function is maintained by the precise control and integration of the specialized activities of the various organ systems. Three hours lecture/2 hours laboratory per week.

Prerequisite: Required, 50.371 and 52.230 or 52.232 or consent of the instructor

Background in algebra recommended.

50.481-489 ADVANCED SPECIAL TOPICS, BIOLOGY/ALLIED HEALTH SCIENCES

3 semester hours

Presents an area of biology or allied health. Three hours of credit may be applied to the biology major, which requires the student have some background in biology.

Prerequisite: Determined by the instructor

50.511 SYSTEMATIC ZOOLOGY

3 semester hours

Study of the diversity of the animal world and the methods and principles used to examine this diversity. Five hours per week including laboratory.

50.521 SYSTEMATIC BOTANY

3 semester hours

Morphology, taxonomy, and geographical distribution of vascular plants. Five hours per week including laboratory.

50.531 DEVELOPMENTAL BIOLOGY

3 semester hours

Study of progressive changes or transformations that occur during the existence of various plants and animals. Morphogenesis, differentiation, metabolism, and genetics control are considered. Experimental studies in the labora-

tory utilize living material obtained from local region and living cells grown in the laboratory. Four hours per week including laboratory.

50.532 MOLECULAR GENETICS
3 semester hours

The study of macromolecular complexes, protein synthesis, gene regulation, and chromosome structure with emphasis on the eukaryotes. Three hours lecture/seminar per week.

50.551 CONSERVATION OF BIOLOGICAL RESOURCES
3 semester hours

Emphasis is on the theory and practice of environmental conservation of biological resources and on applied ecology. Field trips will be made to observe practices of wildlife, forest, and soil conservation. Five hours per week including laboratory.

50.552 LIMNOLOGY
3 semester hours

Chemical and physical aspects of lakes, ponds, and streams and of the nature of their biota. Laboratory and field investigations will be included. Five hours per week including laboratory.

50.553 ANIMAL ECOLOGY
3 semester hours

Animal environmental relationships considered at the levels of individuals, species, populations, the distribution, and the role of animals in communities and ecosystems. Emphasis placed on population ecology. Laboratory and field studies include investigation of physical and biotic aspects of the environment. Five hours per week including laboratory.

50.554 PLANT ECOLOGY
3 semester hours

Study of interrelationships among plants and their environments. Physical and biological factors plus human influences involved in the distribution, associations, and successions of plant populations and communities are investigated. Five hours per week including laboratory.

50.556 FIELD STUDIES IN THE APPALACHIAN MOUNTAINS
3 semester hours

Intensive 3-week field course to master techniques of working as a field biologist in the habitats of the Appalachian Mountains. Focuses on in-depth field investigations. Students gain firsthand experience and knowledge of flora and fauna, ecological relationships, and conservation issues endemic to mountain ecosystems. The course's field component includes and additional student cost for food and camping equipment rental.

50.557 BIOLOGY OF THE LOWER VERTEBRATES
4 semester hours

Study of fishes, amphibians, and reptiles embracing their anatomy and physiology, evolutionary history, zoogeography, and behavior. Field and laboratory work includes collection and identification of local fauna. Six hours per week including laboratory.

50.571 ENDOCRINOLOGY
3 semester hours

The glands of the endocrine system are studied with respect to their development, morphology, function, regulation, and significance in integrating physiological activities of higher vertebrates. Three hours lecture per week.

50.572 COMPARATIVE ANIMAL PHYSIOLOGY
3 semester hours

A comparison of higher vertebrate adaptations to various environments with respect to regulation of body fluid volume composition, core temperature, and nitrogen metabolism. Four hours per week.

50.591 DIRECTED STUDY IN BIOLOGY
3 semester hours

An opportunity for independent investigation in an area of biology in which the student has a particular interest. Such investigation is under the direction of a member of the Department of Biology. The student is encouraged to identify a problem, employ an experimental design, and analyze data collected therefrom. Study of pertinent literature is a requirement of the course.

50.592 MASTER OF EDUCATION THESIS
3 or 6 semester hours

Independent research and the preparation of a formal thesis in partial fulfillment of the requirements for the Master of Education in biology.

50.593 MASTER OF SCIENCE THESIS
3 or 6 semester hours

See course description for 50.592 Master of Education Thesis.



Marine Science

Bloomsburg University is a member of the Marine Science Consortium. Courses in marine science are offered during the summer at the Marine Science Center near Wallops Island, Va. Graduate students may utilize this facility to take graduate level courses in marine biology or to pursue research projects at the Bloomsburg University Marine Biology Laboratory.

COURSE DESCRIPTIONS

Marine Science

(Code 55)

55.431 ECOLOGY OF MARINE PLANKTON

3 semester hours

Study of phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons will be made between the plankton populations of various types of habitats in relation to primary and secondary productivity.

Prerequisite: 50.110 and 50.120

55.500 PROBLEMS IN MARINE SCIENCE

3 semester hours

Graduate students may pursue one of the following options:

Option A – A student may take a 200, 300, or 400 level course offered at the Marine Science Center in which they desire advanced work and complete in addition to the regular course requirements an approved project in the area under the direction of the instructor. Written permission from the instructor is required.

Option B – Independent Research Project. In order to be admitted to Option B, a student must submit a research proposal to the academic committee of the Marine Science Consortium. The proposal must include the scope and duration of the proposed research, equipment and facilities required, and a recommendation and approval from the student's academic adviser.

Students must receive written permission for graduate credit acceptability from the chairperson of the graduate committee of the Department of Biological and Allied Health Sciences before registering. Copies of this approval and the instructor's permission must be forwarded to the academic director of the Marine Science Center before the student arrives on station to take the course.

55.540 ENVIRONMENTAL SCIENCE EDUCATION

3 semester hours

A field oriented approach to environmental education with special emphasis upon coastal zones. Students will relate their own disciplines to education for quality environ-

ments. Consideration will be given to sources, facilities, methods, techniques, and concepts used in environmental education.

55.570 RESEARCH CRUISE – BIOLOGY

3 semester hours

A three-week session involving detailed planning and preparations for an oceanographic research cruise of approximately eight days, actual execution of the cruise plan on board an ocean research vessel, and data-processing techniques and instrumentation used by biological oceanographers are introduced.

Prerequisite: 55.241 or its equivalent, or consent of the instructor

Physics

(Code 54)

54.421 SOLID STATE PHYSICS

3 semester hours

Physical properties of matter in the solid state. Basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semi-conductors, band theory, and the p-n junction. Dielectric and magnetic properties of matter.

54.422 THERMODYNAMICS

3 semester hours

Concepts and principles of classical thermodynamics. Thermodynamics of simple systems. Introduction to kinetic theory and statistical thermodynamics.

54.450 INTRODUCTION TO QUANTUM MECHANICS

3 semester hours

An introduction to the fundamentals of quantum and wave mechanics beginning with a review of quantum radiation theory and proceeding through the Schroedinger presentation. Treatment includes one dimensional potential function, the harmonic oscillator, and the hydrogen atom.

Prerequisite: Physics 54.311, 54.314; Mathematics 53.322

54.480 HISTORY OF PHYSICAL SCIENCE

3 semester hours

An account of the development of physical science from the time of Copernicus to the present with attention to the nature of scientific investigation, assumptions, constructs, and models and the interaction of science with other thinking.

54.501 MATHEMATICS FOR TEACHERS OF PHYSICAL SCIENCE

3 semester hours

Basic mathematical techniques of physics and chemistry with applications appropriate to teachers of the physical sciences. Methods of trigonometry, calculus, and vectors at a level to follow first-year college mathematics.

- 54.510 ELEMENTS OF CLASSICAL MECHANICS AND WAVES**
3 semester hours
A review and extension of basic concepts and methods in the mechanics of particles and objects, wave motion, and kinetic theory.
- 54.511 ELEMENTS OF CLASSICAL ELECTRICITY AND OPTICS**
3 semester hours
A review and extension of basic concepts and methods in electricity and magnetism and optics.
- 54.512 ELEMENTS OF MODERN ATOMIC AND NUCLEAR PHYSICS**
3 semester hours
A review and application of the modern concepts of relativity, quanta, radiation, and wave mechanics to atomic and nuclear physics.
- 54.520 APPLIED ELECTRONICS**
3 semester hours
The construction and characteristics of electronic devices such as amplifiers, oscilloscopes, meters, and transducers and their use in the acquisition, processing, and display of scientific data. Theory integrated with laboratory experience.
- 54.530 MODERN ADVANCED LABORATORY**
3 semester hours
Laboratory work with modern instrumentation of intermediate sophistication in a variety of areas such as nuclear radiation, magnetic field effects, vacuum, mass spectroscopy, nuclear magnetic resonance, lasers, and interferometry.
- 54.540 CURRENT APPLICATIONS OF MODERN PHYSICS**
3 semester hours
Application of principles and methods of modern physics to selected current topics of significance and probable classroom interest. Examples: lasers and holography, nuclear energy, cosmology, and solid state semiconductors.
- 54.550 MATHEMATICAL METHODS OF THEORETICAL PHYSICS**
3 semester hours
Development and use of mathematical concepts and techniques appropriate to further study in graduate-level physics. Vector calculus, differential equations, complex variables, special functions. Fourier analysis, etc.
- 54.552 THEORETICAL PHYSICS FOR TEACHERS**
3 semester hours
Development of more sophisticated theoretical aspects of such basic areas of physics as electromagnetic

radiation, mechanics, particles and waves, quantum mechanics, fields, etc.

Prerequisite: 54.550 or equivalent

- 54.560 RECENT DEVELOPMENTS IN HIGH SCHOOL PHYSICS**
3 semester hours
A consideration of modern programs including PSSC Physics and Harvard Project Physics covering course content, laboratory work, philosophy, and method of teaching.
- 54.561 RECENT DEVELOPMENT IN JUNIOR HIGH SCHOOL SCIENCE**
3 semester hours
A consideration of modern programs including ISCS and IPS covering course content, laboratory work, philosophy, and method of teaching.
- 54.570 INDEPENDENT STUDY**
1-3 semester hours
Individual investigation (laboratory or theoretical) of an area of special interest following a plan consistent with the resources of the department and approved before registration by a supervising professor. Number of credits depends upon the magnitude of the study.
- 54.592 MASTER'S PAPER IN PHYSICS**
3 semester hours
An extended paper presenting, from a novel aspect, the results of a study in depth of a topic or area in physics. May include laboratory work. Pre-registration approval must be secured from a supervising professor.
- 54.599 PHYSICS RESEARCH**
3-6 semester hours
Experimental and/or theoretical research leading to a thesis that shows new knowledge or original scholarship on the part of the student. Pre-registration approval must be secured from a supervising professor. Number of credits depends upon the complexity and magnitude of the project.



Master of Science in Instructional Technology

Program Description:

The master's degree program in instructional technology addresses the preparation of three types of professionals:

- those who wish to enter a career in the training and development sector of business, industry, non-profit institutions, or government;
- those who already work in business, industry, or health care settings as trainers and developers but seek a formalized degree structured for their needs and further development;
- those who wish to become instructional technology resource specialists in private, public, or higher education

The curriculum of the program concentrates on the application of the computer and other emerging technologies to education and training with the emphasis directed toward the design, development, and production of computer-based interactive videodisc courseware. Master's candidates have the opportunity to experience a variety of state-of-the-art interactive video configurations through an instructional systems approach with the general program theme being related to obtaining a background typically associated with an interactive video specialist. More specifically, the program curriculum includes study in the following areas:

Curriculum and Instructional Design

System Approach
C/I Models
Psychology of Learning
Screen Design
Theories of Learning

Instructional Computing

Computing Literacy
Programming/Authoring
Computer-Assisted Instruction
Computer-Based Interactive Video

Video Production and Post Production

Equipment
Aesthetics
Scripting
Editing

Technology

Past and Current Technologies
Emerging Technologies
Networking

Human Resource Development

Team Relationship
Interpersonal Skills
Organizational Psychology
Project Management
Organizational Training

Course Offerings:

Persons who hold a bachelor's degree in any discipline from an accredited four-year college may become degree candidates and proceed to the master of science degree by completing a minimum of 30 semester hours (credits). All courses are three credits unless otherwise indicated.

F = Fall S = Spring, SU1 = 1st Summer Session,
SU2 = 2nd Summer Session

Required Core Courses (15 credits):

- 09.580 Instructional Design I (F) or 60.584 Curriculum and Instructional Theory, Design, and Development (S)
25.585-7 Public Address Seminar (F) or 09.584 Communication Technology (S)
27.511 TV Production and Design (SU1)
53.580 Programming for Interactive Video (SU2)
93.583 Human Resource Development (F) or 48.453 Organizational Psychology (S)

Elective Courses (12 credits minimum):

- 09.582 Author Systems I
09.583 Instructional Design II (S)
09.585 Author Systems II
53.541 Statistical Applications
53.575 Computer Programming for Instructional Applications (F)
53.576 Computer Graphics for Instructional Applications (S)
53.577 Pascal for Instructional Applications (SU1)
53.578 Design for Instructional Systems Using Pascal (SU2)
53.592 Special Topics: Artificial Intelligence
60.578 Group Process in Supervision
60.579 Supervision of Instruction
60.585 Curriculum and Instructional Evaluation

Required Final Course (3-6 credits):

- Select one of the following two courses.
09.590 Graduate Internships
09.599 Master's Thesis

COURSE DESCRIPTIONS

Instructional Technology

09.580 INSTRUCTIONAL DESIGN I

3 semester hours

Explores the theoretical foundations of the field of instructional technology and describes a system approach for the design, development, and evaluation of instruction/training materials. Students conduct needs assessments and instructional analysis, write objectives and develop instructional design strategies. Specific emphasis on applying these techniques to design, develop, and produce interactive technologies.

09.582 AUTHOR SYSTEMS I

3 semester hours

This course is a sequel to 53.580 where a more careful, in-depth study of various interactive video systems and their accompanying author systems/languages occurs.

09.583 INSTRUCTIONAL DESIGN II

3 semester hours

Sequel to 09.580. Considers the major approaches to management and evaluation of the instructional design process. Students engage in organization and management of the design of instructional/training materials; train in design cost analysis, client consultation skill, and formative evaluation; and observe design management in the corporate setting. Special emphasis on management activities that involve interactive technologies.

09.584 COMMUNICATION TECHNOLOGIES

3 semester hours

Course provides a review of the emerging technologies of computers, satellites, cable television, and home media from the perspective of the historical development, impact on audiences, economics of the media, regulation of the media, and business status of the media.

09.590 GRADUATE INTERNSHIP

1-6 semester hours

Provides a work-study experience initially administered by an academic faculty member and a sponsoring employer. This course also provides the opportunity for an internship experience across disciplines at a graduate level.

09.599 MASTER'S THESIS

3-6 semester hours

Development of a computer-based interactive video project using the systems approach.

25.585-7 PUBLIC ADDRESS SEMINAR

3 semester hours

Specialized study by the class. The subject is selected by the instructor of public address.

27.511 TELEVISION PRODUCTION AND DESIGN

3 semester hours

Course focuses on the practical aspects of planning and producing video tapes for specific instructional purposes. Covers pre-production planning, production activities, and post-production editing.

48.453 ORGANIZATIONAL PSYCHOLOGY

3 semester hours

Describes the applications of psychological theory and research to the study of industrial, business, profit and nonprofit service, military, and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics, and organizational climates and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations.

53.575 COMPUTER PROGRAMMING FOR INSTRUCTIONAL APPLICATIONS

3 semester hours

Fundamental concepts of the BASIC programming language are used to provide a foundation for the design and development of processes needed for the production of instructional computing programs.

53.576 COMPUTER GRAPHICS FOR INSTRUCTIONAL APPLICATIONS

3 semester hours

A sequel to 53.575 where techniques for creating color, graphics, and sound are examined and applied to the development of instructional computing programs.

53.577 PASCAL FOR INSTRUCTIONAL APPLICATION

3 semester hours

A thorough study of the fundamental concepts and applications of the structured programming language Pascal provides the skills essential for the design of instructional computing materials.

53.578 DESIGN OF INSTRUCTIONAL SYSTEMS USING PASCAL

3 semester hours

This course applies the concepts and skills covered in 53.577 primarily to the design and development of instructional learning episodes and, secondly, to the design of instructional support systems.

53.580 PROGRAMMING FOR INTERACTIVE VIDEO

3 semester hours

The fundamental concepts of an author language/system are used to provide for the design and development of computer-based courseware that integrates interactive video, audio, computer-generated text, and graphics.



COLLEGE OF BUSINESS

Master of Education in Business Education

Purpose:

This specialization in office systems is intended to contribute to the professional maturation of the teacher of business subjects in secondary schools.

Prerequisite:

Level I Certification to teach business subjects.

Required Courses:

6 credits – 79.591 Foundations of Educational Research and 90.581 Seminar in Business Education.

Restricted Elective Courses:

Choose 6 credits – 53.575 Computer Programming for Instructional Applications, 53.576 Computer Graphics for Instructional Applications, 90.460 Business Education Workshop, 90.551 Teaching Strategies in Business Education, 90.564 Business Education Program Development and Management, 90.599 Master's Thesis, 92.550 Information Processing, 92.554 Management Information Systems.

Related Courses:

Office Systems 18 credits – 94.500 Introduction to Office Systems and Information, 94.510 Office Systems Applications, 94.520 Administrative Office Communications, 94.530 Office Telecommunication Systems, 94.540 Training and Development in Office Systems, 94.550 Integrated Office Systems.

COURSE DESCRIPTIONS

Business Education

(Code 90)

90.460 BUSINESS AND OFFICE EDUCATION WORKSHOP

1-3 semester hours

Addresses those educational ideas and experiences that encourage, support, and guide participants to acquire an increased understanding of the accumulated knowledge pertaining to the development of business skills, the enhancement of business education as a profession, and the determination of the business and office personnel's responsibility and role in the business world.

53.592 SPECIAL TOPICS: ARTIFICIAL INTELLIGENCE

3 semester hours

Concepts from artificial intelligence are explored with specific emphasis placed on the application of expert systems to solving real life problems.

60.578 GROUP PROCESSES IN SUPERVISION

3 semester hours

Emphasis is given to group processes, communication in the group, and organizational goals related to educational supervision. The focus is on knowledge of and practice in laboratory experiences in group processes and applicability to supervision.

60.579 SUPERVISION OF CURRICULUM AND INSTRUCTION

3 semester hours

Defines the supervisory function directed toward the improvement of instruction. Emphasis is placed upon the interrelationships between the humanistic aspects of education and democratic administrative behavior. Roles of contemporary supervision with respect to educational quality assessment, interpersonal relations, and the catalytic role of the supervisor are studied.

60.584 CURRICULUM AND INSTRUCTIONAL THEORY, DESIGN, AND DEVELOPMENT

3 semester hours

Curriculum and instructional evaluation is a competency-based course consisting of elements providing a base for the student in current theory and practice in the evaluation of school curriculum and instruction. Reviews, critiques, and application of current thinking and practice in curriculum evaluation are an integral part of the course.

93.583 HUMAN RESOURCES DEVELOPMENT

3 semester hours

The course focuses on the current research and theory related to the management and development of human resources in organizational settings. Specific emphasis is placed on basic principles of behavior, motivation, training and development, leadership, and performance in organizations.

**90.551 TEACHING STRATEGIES IN
BUSINESS EDUCATION**

3 semester hours

Presents teaching-learning environments based upon instruction which is geared to involve students in the assessment of their performance according to specific criteria. An increasing degree of professionalism and teacher competency is emphasized in education today by using specific criteria for judging a teacher's effectiveness. Designed to develop teaching strategies and to evaluate the results of performance-based instruction.

**90.564 BUSINESS EDUCATION PROGRAM
MANAGEMENT AND DEVELOPMENT**

3 semester hours

A study of basic management and curriculum theory as it applies to business education program administration and supervision. Course approached from the perspectives of planning, organizing, staffing, directing, and controlling.

90.581 SEMINAR IN BUSINESS EDUCATION

3 semester hours

An investigation and evaluation of completed research in business education. The student submits written reports which are used as the basis for class discussions.

Information Processing

(Code 92)

92.550 INFORMATION PROCESSING

3 semester hours

A comprehensive introduction and basic orientation to the use of information processing in the educational environment. The student will be required to investigate the impact of the computer and associated peripheral devices on the classroom. The effective use of available computer resources will be emphasized.

**92.554 MANAGEMENT INFORMATION
SYSTEMS**

3 semester hours

A study of information analysis and systems design from the user's point of view. The student will identify the basic concepts of the following: the systems point of view, the organization as a system, information flows, and the nature of management information systems. Data bases and data base management systems will be investigated from the manager's perspective.

Office Systems

(Code 94)

**94.500 INTRODUCTION TO OFFICE
SYSTEMS AND INFORMATION**

3 semester hours

An overview of office systems—people, technology, and procedures—within organizational and environmental

contexts. Course is designed to provide an understanding of the evolving role of the office as a key information systems center.

94.510 OFFICE SYSTEMS APPLICATIONS

3 semester hours

Applications of office automation technologies to enhance productivity of office employees of all levels from support personnel to managers. Hands-on experience includes comparative and selection techniques for hardware and software, as well as an evaluation of appropriate training materials for support personnel.

Prerequisite: 94.500

**94.520 ADMINISTRATIVE OFFICE
COMMUNICATIONS**

3 semester hours

Designed to provide application of communication skills for those professionals who work in environments with automated information and communication systems. Topics include oral and written reports, systems-related documents (reports, proposals, procedures), research methods, and information technology.

Prerequisite: 94.500, 94.510

**94.530 OFFICE TELECOMMUNICATIONS
SYSTEMS**

3 semester hours

Introduction to telecommunications in the business environment. Topics include telephony, data codes, protocols, network architectures, local area networks, communications media, hardware and software. Management issues and practical applications are an integral part of this course. Emphasis is on the application of telecommunications to facilitate information interchange in whatever form the information takes: voice, data, text, and image.

Prerequisite: 94.500

**94.540 TRAINING AND DEVELOPMENT
IN OFFICE SYSTEMS**

3 semester hours

Applies theories of learning and instructional procedures to the education and training of employees in office systems. Topics include instructional design, strategies, technology, and the implementation, evaluation, and management of training within the organizational structure.

Prerequisite: 94.500, 94.510

94.550 INTEGRATED OFFICE SYSTEMS

3 semester hours

The course is designed to be the capstone course of the office system curriculum and includes a synthesis and application of concepts related to current office systems topics.

Prerequisite: 94.500, 94.540

Master of Business Administration

Administration:

The Master of Business Administration (MBA) program is administered by a director who also serves as the faculty adviser for all M.B.A. students. It is an all-evening program offering four courses each semester for both full- and part-time students.

Philosophy and Objectives:

The degree program is planned to reflect the curriculum standards of the American Assembly of Collegiate Schools of Business. It is oriented toward the decision-making responsibilities of management; consequently, it is broad-based and aims to develop perspective. It also provides a limited opportunity to elect courses in an area of specialization.

Admission to Program Courses:

Enrollment in the program is limited; therefore, admission to the courses is selective. The applicant must hold a baccalaureate degree from an accredited college or university. While no undergraduate major is prescribed, a minimum body of 30 credits in background courses in basic business subjects is required as outlined herein.

The overall quality point average must have been 2.50 or higher; or if based on only the last two years of undergraduate work, must have been a 2.75 or higher. Requirements for admission to the Master of Business Administration program are based on a combination of undergraduate grade point average and score on the Graduate Management Admissions Test (GMAT). A score of 950 or more points must be achieved based on the formula: 200 times the overall undergraduate grade point average plus the GMAT score, or at least 1,000 points based on the formula, 200 times the last two years of undergraduate grade point average plus the GMAT score.

Admissions criteria include the GMAT score, the undergraduate record, statements by two references, and job experience. For applicants whose native language is not English, the TOEFL (Educational Testing Services, Princeton, N.J.) is required with at least a 550 score in order to be considered.

Admission to Candidacy for MBA:

Admission to the courses of the program does not imply admission to candidacy for the degree. The procedure for admission to candidacy is described in the section Admission to Candidacy for a Master's Degree.

Program of Study:

The total program for the MBA degree comprises two levels of courses. Level I consists of background

courses or experiences that are prerequisite to Level II. Students whose undergraduate major was in business administration are likely to have had most, or perhaps all, of the courses of Level I; they may be exempted from courses that duplicate their undergraduate work. Level I must be completed before entering the Level II program. The courses of Level I are Financial Accounting or Principles of Accounting II, Principles of Management, Principles of Marketing, Business Statistics, Business Law, Business Finance, Principles of Economics (two semesters), and two semesters of mathematics including one semester of calculus. In the *Undergraduate Catalog*, these are numbered respectively: 91.220 or 222, 93.344, 97.310, 40.346, 98.331, 96.313, 40.211 and 212, and 53.123; plus one additional advanced mathematics course. Level II consists of 36 semester hours of graduate credit of which 30 are prescribed and 6 are elected.

The prescribed courses are:

93.457	BUSINESS AND SOCIETY 3 semester hours
93.511	STATISTICAL ANALYSIS OR DESIGN 3 semester hours
93.512	MANAGERIAL ECONOMICS 3 semester hours
93.560	OPERATIONS MANAGEMENT 3 semester hours
93.562	ORGANIZATION THEORY 3 semester hours
93.563	OPERATIONS RESEARCH 3 semester hours
93.566	ORGANIZATIONAL BEHAVIOR 3 semester hours
93.581	POLICIES 3 semester hours
96.535	FINANCIAL MANAGEMENT 3 semester hours
97.551	MARKETING MANAGEMENT 3 semester hours

Two courses must be elected in accounting, marketing, finance, or management. Elective courses may be chosen from:

91.501	FINANCIAL ACCOUNTING 3 semester hours
91.502	ADVANCED FINANCIAL ACCOUNTING 3 semester hours

- 91.503 GOVERNMENTAL FUND ACCOUNTING**
3 semester hours
- 91.524 MANAGERIAL ACCOUNTING**
3 semester hours
- 92.554 MANAGEMENT INFORMATION SYSTEMS**
3 semester hours
- 93.561 OPERATIONS PLANNING AND CONTROL**
3 semester hours
- 93.583 HUMAN RESOURCES DEVELOPMENT**
3 semester hours
- 96.550 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT**
3 semester hours
- 96.565 SEMINAR IN FINANCE**
3 semester hours

Or courses can be taken with permission of the dean from the following senior level undergraduate courses (for course descriptions, see the *Undergraduate Catalog*):

- 42.472 HISTORY OF LABOR IN THE UNITED STATES**
3 semester hours
- 93.440 SMALL BUSINESS INSTITUTE SEMINAR**
1-3 semester hours
- 96.454 FINANCIAL MANAGEMENT DECISIONS**
3 semester hours

Accounting
(Code 91)

- 91.501 FINANCIAL ACCOUNTING**
3 semester hours
Emphasis on asset valuation, income determination, and financial accounting principles with selected topics from the funds statement and analysis and interpretation of financial statements.
Prerequisite: 91.524
- 91.502 ADVANCED FINANCIAL ACCOUNTING**
3 semester hours
Advanced problems in consolidated statements, stockholder's equity partnership, fiduciary accounting, and selected topics dealing with government units, and nonprofit

service organizations. Selected reference to professional literature and uniform C.P.A. examination problems.
Prerequisite: 91.501

- 91.503 GOVERNMENTAL FUND ACCOUNTING**
3 semester hours
Accounting principles and practices of governments and nonprofit institutions. Comparisons between accounting principles and practices that apply to governments and nonprofit institutions and those that are generally accepted in business.
Prerequisite: 91.502

- 91.524 MANAGERIAL ACCOUNTING**
3 semester hours
The major objective of the course is to show how accounting data can be used to help solve the problems of business management. Attention also will be given to the use of accounting data by investors and potential investors whenever possible.

Management
(Code 93)

- 93.440 SMALL BUSINESS INSTITUTE SEMINAR**
1-3 semester hours
Teams of students will work with local businesses in a consultancy capacity to aid in the resolution of actual business problems. Work will include analysis of the problem, determination of alternative solutions, recommendation of the optimum course of action by means of an oral presentation to the business owners, and a written report to the Small Business Administration's regional office.
- 93.511 STATISTICAL ANALYSIS**
3 semester hours
Statistical principles and procedures basic to research in business and interpretation of data.
- 93.512 MANAGERIAL ECONOMICS**
3 semester hours
Economic analysis of the firm and its environment. Determination of prices, output, and employment.
- 93.560 OPERATIONS MANAGEMENT**
3 semester hours
Analysis of manufacturing and service systems and application of decision making to operational and policy problems.
- 93.561 OPERATIONS PLANNING AND CONTROL**
3 semester hours
Examination of research findings in operations management with focus on the operation and control of the system.
Prerequisite: 93.560

93.562 ORGANIZATION THEORY

3 semester hours

Comparative examination of major approaches to the study of organizations. Theories and research findings applied to practical situations. Topics include organization structure, systems of power and influence, organizational conflict and cooperation, individual motivation, group process, behavioral science research, and its implications for management.

93.563 OPERATIONS RESEARCH IN BUSINESS

3 semester hours

Construction and use of quantitative models in business decision making.

93.566 ORGANIZATIONAL BEHAVIOR

3 semester hours

This course focuses primarily on internal organizational issues with appropriate recognition given to personal and external organizational background factors. More specifically, this course deals with the human aspects of organization, spotlighting the group and individual. Included are not only the findings and conceptual models of those who have conducted empirical behavior research and struggled to make sense of what has been observed—but also the behaviors of class members.

Among specific concepts to be included are roles, norms, cohesive and divisive processes, social and status aspects are explored including self concept, personal perception, goals, feelings, ego, responsibility, decisions, conditioning, and personal functioning.

Prerequisite: 93.560

93.581 POLICIES

3 semester hours

Complex industrial situations are examined for the purpose of determining the strategy to insure long-run survival and growth in competitive markets. Emphasis is on problem-solving skills, implementation of optimal decisions, nature of strategic analysis including selected cases involving production, pricing, capital investments, and their interaction with other factors.

Prerequisite: Must be taken in the last semester of the student's program.

93.583 HUMAN RESOURCES DEVELOPMENT

3 semester hours

The course focuses on the current research and theory related to the management and development of human resources in organizational settings. Specific emphasis is placed on basic principles of behavior, motivation, training and development, leadership, and performance in organizations.

Finance

(Code 96)

96.454 ADVANCED FINANCIAL MANAGEMENT

3 semester hours

The study of business financial problems and the development of advanced financial management practices as used in the decision-making role of the financial manager.

96.535 FINANCIAL MANAGEMENT

3 semester hours

Extensive and in-depth study of management activities involved in the financial aspects of the business enterprise. Theoretical knowledge gained through exposure to financial management literature is applied to problem situations through the use of case studies and simulation techniques. Emphasis is placed on the development of perspective in the decision-making process with the acquisition of tools to facilitate effective decision making.

96.550 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

3 semester hours

An advanced treatment of aspects involved in developing a logical and systematic approach to analyzing and evaluation types of securities. Investment strategy and management of an investment portfolio. Theoretical aspects of security analysis and problems involved in analyzing and evaluation securities within the context of the type of industry issuing them.

96.565 SEMINAR IN FINANCE

3 semester hours

Seminar on unresolved problems in the field of finance with investigations to include such areas as models for financial decision making, money, and capital markets and simulation problems.

Marketing

(Code 97)

97.551 MARKETING MANAGEMENT

3 semester hours

Application of the managerial processes of analysis, organization, planning, and control of marketing activities: marketing concepts, analysis of marketing opportunities, growth and competitive strategy, marketing information system, buyer behavior, and product development.

COLLEGE OF PROFESSIONAL STUDIES

School of Education

Raymond E. Babineau, director

COURSE DESCRIPTIONS

Educational Foundations

(Code 60)

60.451 PUPIL PERSONNEL SERVICES IN THE PUBLIC SCHOOL

3 semester hours

A comprehensive view of pupil personnel services in elementary and secondary schools; school attendance, school health programs, pupil transportation, psychological services, guidance services.

60.501 MAJOR PHILOSOPHIES OF EDUCATION

3 semester hours

Modern educational problems and trends interpreted in the light of philosophical viewpoints; study of primary sources of concepts and philosophies which have influenced and are influencing education.

60.502 SCHOOL AND SOCIETY

3 semester hours

Effects on the school program of social class, family and community pressures, and changing patterns and standards of life in our society. The course aims to foster understanding of these pressures and patterns so as to enable the teacher to work effectively in encouraging the good and reducing the harmful impacts of social forces in relationships of children.

60.503 HISTORY OF AMERICAN EDUCATIONAL THEORY

3 semester hours

Historical foundations of American educational theory with emphasis on individuals and schools of thought which have influenced and are influencing education in America.

60.505 COMPARATIVE EDUCATION

3 semester hours

Educational ideas and practices of various countries of the world are examined for their impact upon our culture and education. Particular attention is given to the relationship of European educational programs to the American philosophy and practice of public education.

60.506 URBAN EDUCATION FOR THE DISADVANTAGED

3 semester hours

A course designed to increase awareness of problems of the urban educational system. The course emphasizes a growth of sensitivity to the disadvantaged youngster, in-depth examination of current research findings in each area studied, teaching strategies, and resources and approaches to resolve major problems. Discussion of polarization on critical problem areas.

60.507 USING NEWSPAPERS IN THE CLASSROOM

3 semester hours

An activity-centered course that provides the teacher with an orientation to the use of the newspaper in various subject areas. Opportunities for the development of learning experiences will be provided.

60.512 MEDIA AND SOFTWARE

3 semester hours

Advanced study of the role of media in the educative process. Includes the critical assessment of that role, the selection of equipment and materials for optimum utility, a review of contemporary literature in the field, and a production component that involves advanced work in television, transparencies, slide-tape, and computer-assisted instruction.

60.514 HOME, SCHOOL, AND COMMUNITY RELATIONS

3 semester hours

Introductory course in public relations. Special reference to elementary schools where a philosophy of partnership between home, school, and community is developed and where principles, attitudes, and techniques to encourage community sharing in the planning of and assuming responsibility for good schools are considered.

60.520 GUIDANCE AND COUNSELING FOR EXCEPTIONAL CHILDREN

3 semester hours

Studies the needs of exceptional children in public schools (including the academically talented); guidance and counseling techniques for teachers and guidance counselors in meeting those needs; guidance and counseling for exceptional children related to total guidance counseling program.

60.530 GUIDANCE IN THE ELEMENTARY SCHOOLS

3 semester hours

Concepts and techniques of the guidance process in the elementary school; behavioral and developmental problems; releasing creative capacities of children.

60.533 MEASUREMENT AND EVALUATION IN THE ELEMENTARY SCHOOL

3 semester hours

Construction, administration, and interpretation of group tests of intelligence, achievement, aptitude, and personality in elementary schools.

60.534 CREATIVITY FOR TEACHERS
3 semester hours

This course is intended to help teachers become more creative in their approaches to their students and subject matter. Emphasis is on understanding creative process, recognizing the creative child, and development of the creative potential of student and teacher.

60.550 PROBLEMS IN GUIDANCE AND COUNSELING
3 semester hours

Philosophy of guidance; history of the guidance movement; guidance needs of children and adolescents; methods of gathering data; nature of school records; interpretation of test results and inventories; use of occupational information and data; interviewing and counseling techniques.

60.551 TECHNIQUES IN COUNSELING
3 semester hours

Theories, principles, and practices of counseling; development and use of counseling materials, i.e., educational information, test results, and other pertinent materials.

60.552 ORGANIZATION AND SUPERVISION OF GUIDANCE
3 semester hours

Types of guidance organizations used in schools and their effectiveness in providing for good guidance.

60.561 MEASUREMENT AND EVALUATION IN THE SECONDARY SCHOOL
3 semester hours

Construction, administration, and interpretation of group tests in intelligence, achievement, aptitude, and personality in secondary schools.

60.573 INTRODUCTION TO EDUCATIONAL ADMINISTRATION
3 semester hours

An examination of the functions and tasks of educational administration is the primary focus of this course. Issues include the evolving school setting, the meaning, development, and work of school administrators, educational systems analysis, school personnel administration, administrative and organizational behavior, and career ladders in educational administration.

60.576 SCHOOL LAW AND FINANCE
3 semester hours

Consideration is given to the limitations established by local, state, and federal law related to the interactions of school personnel. Special attention to recent changes resulting from judicial decisions. Fiscal control of education with emphasis on local budgetary problems is a major objective.

60.577 EDUCATIONAL RESEARCH FOR SUPERVISION
3 semester hours

Consideration is given to the development of ability to read and interpret educational research and apply it to a school situation. Conclusions concerning curriculum content and teaching strategies designed for the improvement of the educational process are emphasized.

60.578 GROUP PROCESSES IN SUPERVISION
3 semester hours

Emphasis is given to group processes, communication in the group, and organizational goals related to educational supervision. Focuses on knowledge of and practice in laboratory experiences in group processes and applicability to supervision. Experiences provide opportunities for experimenting with and evaluating leadership skills and promote creativity and initiative.

60.579 SUPERVISION OF CURRICULUM AND INSTRUCTION
3 semester hours

Through an examination of the objectives, techniques, and materials of staff supervision, this course defines the supervisory function directed toward the improvement of instruction. Emphasis is placed upon the interrelationships between the humanistic aspects of education and democratic administrative behavior. Roles of contemporary supervision with respect to educational quality assessment, interpersonal relations, and the catalytic role of the supervisor are studied.

60.580 SEMINAR IN SUPERVISION OF CURRICULUM AND INSTRUCTION
3 semester hours

Field-based practicum experience that places the candidate for a Curriculum and Instruction N-12 supervisory certificate in a cooperative relationship with an individual in a school setting responsible for the overall planning coordination, implementation, and evaluation of a school system curricular and instructional program. The experience is competency based. Experiences are shared and discussed in a weekly seminar. Evaluation of the individual candidate's performance is based on achievement of specified competencies.

60.581 INDEPENDENT STUDY IN EDUCATION
1-6 semester hours

Designed for teachers in public schools as an opportunity to pursue in-service projects in cooperation with a faculty adviser. The teacher submits a "learning contract" to an adviser designated by the department chairperson which details the academic goals and describes the project in its relation to the goals, a reading list, the proposed credit, and a description of a proposal for a final report. Permission to register for the course is granted upon approval of the contract. Evaluation is based on the written report and an examination by a committee appointed by the adviser and/or department chairperson. Students may register at any suitable time; the duration of the experience is flexible.

60.583 SEMINAR IN EDUCATION

1-6 semester hours

Designed to provide opportunity for a group of teachers engaged in a common in-service project to use the resources of the college and its faculty in connection with the project. A "learning contract" similar to that of 60.581 is submitted by the group as a basis for permission to register. Papers related to aspects of the project and to the literature designated in the contract are presented by the members for discussion and criticism in seminar meetings held under direction of a faculty member. Evaluation is based upon the seminar reports and a final comprehensive written report by the student.

60.584 CURRICULUM AND INSTRUCTIONAL THEORY, DESIGN, AND DEVELOPMENT

3 semester hours

This is a competency-based course consisting of elements providing a base for the student in relevant theory associated with the activity of curriculum development. A review, critique, and evaluation of current theoretical positions and design methodology are an integral part of the course.

60.585 CURRICULUM AND INSTRUCTIONAL EVALUATION

3 semester hours

Curriculum and instructional evaluation is a competency-based course consisting of elements providing a base for the student in current theory and practice in the evaluation of school curriculum and instruction. Reviews, critiques, and application of current thinking and practice in curriculum evaluation are an integral part of the course.

Professional Studies

(Code 79)

79.591 RESEARCH IN EDUCATION

3 semester hours

A study of the methods and techniques used in educational research; the development and interpretation of statistical data and the application to professional problems.

**Doctor of Education
in Elementary Education**

A cooperative doctoral program in elementary education combines the resources of Bloomsburg University and Indiana University of Pennsylvania. The program includes areas of concentration in curriculum and supervision, administration, reading, early childhood education, educational psychology, and special education. Students can take courses at both institutions and the doctoral committee guiding the dissertation consists of faculty from both institutions. Individuals interested in pursuing this degree should contact William O'Bruba or John Hranitz, coordinators of the program.

**Master of Science
in Early Childhood Education**

John Hranitz, coordinator

Purpose:

This program is intended to enhance the professional competence of the individual as a teacher of young children through integrated learning experiences in the study of the young child, the curriculum, current practice, and the teacher of young children's areas of interest. Individuals not holding any type of certification can obtain the N-K-3 certificate. The program also has an option that enables the teacher with a K-6 certification to obtain an N-K-3 (early childhood education) certification.

Required Courses:

62.522, 523, 590, 591, 592, 593: a master's research paper, departmental paper, a comprehensive examination or a comprehensive curriculum project in early childhood education; 6 credits in foundation courses; and 6 credits in courses related to this professional specialization. N-K-3 certification will be granted to students who complete 36 semester hours of graduate study of which 6 hours of graduate work was of a field experience/practicum nature. Students seeking N-K-3 certification are required to complete 62.594 Practicum in Early Childhood Education.

Elective Courses:

Electives to complete the minimum degree program or the degree program with N-K-3 certification may be selected with approval of an adviser from several departments.

Admission:

Students seeking admission to candidacy must complete a written screening examination.

All N-K-3 teacher certification candidates seeking their first Instructional Level I Certification, must demonstrate that they have successfully completed examinations in program specialization, basic skills, professional skills, and general knowledge.



Master of Education in Elementary Education

Lynn Watson, coordinator

Purpose:

This program is intended to enhance the professional competence of the individual as a teacher and leader through integrated learning experiences in study of the child, curriculum, current practice, and the teacher's academic field.

Prerequisite:

Instructor Level I Certification for teaching in the elementary school.

Required Courses:

60.501 Major Philosophies in Education and 79.591 Research in Education; a master's research paper or a departmental paper in elementary education; 6 to 12 semester hours in courses pertinent to a professional specialization or in an academic discipline. (General degree requirements are stated in the section on the Master of Education.)

Electives:

Electives to complete the minimum degree program may be selected with approval of the adviser from several departments.

COURSE DESCRIPTIONS

Elementary and Early Childhood Education

(Code 62)

62.410 WORKSHOP IN PRESCHOOL EDUCATION

1-6 semester hours

A course designed for both teachers in-service and upper-level undergraduates. Study of selected areas in early childhood education. Individual or group study of subjects of interest or concern in teaching.

62.521 ELEMENTARY SCHOOL CURRICULUM

3 semester hours

A study of problems related to development, experimentation, and improvement of curriculum practices in the elementary school.

62.522 CURRICULUM TRENDS IN EARLY CHILDHOOD EDUCATION

3 semester hours

A study of the changing goals and the developing programs required to meet the needs of children who enter school with increased experiential background.

62.523 PRACTICES IN TEACHING THE YOUNG CHILD

3 semester hours

An examination of current practices in teaching the young child with emphasis on the developmental aspects of childhood as they relate to the school program.

62.524 KNOWLEDGE AND THE CURRICULUM IN THE ELEMENTARY SCHOOL

3 semester hours

A study of the place of knowledge in developing a curriculum. The emphasis is on content as it is influenced by innovative practices.

62.525 CURRENT PRACTICES IN ELEMENTARY SCHOOL SCIENCE

3 semester hours

A study of the problems resulting from the increased interest of children in science and the need for science instruction in the elementary grades; methods and materials for nurturing these interests and for implementing science instruction within the limits of the interests of children are presented and evaluated.

62.527 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL

3 semester hours

An examination of contemporary trends and current research in the disciplines of the social sciences as a basis for development of a conceptual framework for a social studies program.

62.528 LANGUAGE ARTS IN THE MODERN SCHOOL

3 semester hours

A study of problems related to instruction in various aspects of the language arts; the place of language arts in the curriculum; current research and its practical application.

62.529 LITERATURE FOR CHILDREN IN THE ELEMENTARY GRADES

3 semester hours

A survey of ways that children may encounter literature and methods that are effective in the encounter. Students become acquainted with children's books, work with children in a story-telling experience, discover ways other than through reading by which children may experience literature.

62.530 AWARENESS OF ENVIRONMENTAL EDUCATION PROBLEMS FOR THE ELEMENTARY SCHOOL

3 semester hours

This course is designed to help the classroom teacher organize environmental education activities. Areas of content, problem-solving activities, material sources, the use of resources, curriculum building, development of an awareness of environmental problems, and possible solutions to them. Camping and a camp fee are required.

**62.531 ENVIRONMENTAL EDUCATION
AWARENESS ACTIVITIES AND
MATERIALS FOR THE ELEMENTARY
SCHOOL**

1-3 semester hours

An opportunity for students to broaden their experiences in environmental education. Camping and a camp fee are required.

Prerequisite: 62.530

**62.533 VALUES CLARIFICATION IN THE
ELEMENTARY SCHOOL**

3 semester hours

A course designed primarily for elementary education students in which the emphasis is on the philosophy and composition of values clarification as it applies to the elementary school child. Practical and theoretical aspects will be stressed as well as techniques for helping children begin to build a value system by which they can live. Emphasis will be placed on methods which aid the teacher in becoming aware of the emotional needs of children, humanizing of the education process, and improvement of working/learning relationships with others.

**62.539 CURRENT TOPICS IN ELEMENTARY
EDUCATION**

3 semester hours

An investigation of current thinking and research in aspects of elementary education.

**62.581 INDEPENDENT STUDY IN ELEMENTARY
EDUCATION**

1-6 semester hours

Comparable to 60.581.

**62.583 SEMINAR IN ELEMENTARY
EDUCATION**

1-6 semester hours

Comparable to 60.583.

**62.590 CURRENT RESEARCH AND
DEVELOPMENT IN EARLY CHILDHOOD
EDUCATION**

3 semester hours

An examination of recent literature and experimental work in the field of early childhood education — preschool, kindergarten, primary. Characteristics of the learner, learning environment, learning materials, and innovative programs. These departmental paper and/or curriculum projects are initiated in this course.

**62.591 LEARNING AND DEVELOPMENT OF
THE YOUNG CHILD**

3 semester hours

A survey of child development and its relationship to the early school years. The development of the young child from ages two through eight.

**62.592 IDENTIFICATION AND PRESCRIPTION
OF THE NEEDS OF YOUNG CHILDREN**

3 semester hours

A course in the techniques of identifying of the physical, emotional, social, and mental needs of young children and developing appropriate prescriptive procedures.

**62.593 ORGANIZATION AND ADMINISTRATION
OF EDUCATIONAL PROGRAMS FOR
YOUNG CHILDREN**

3 semester hours

A study of the various programs in early childhood education with emphasis on the expansion and administration with regard to the selection of personnel, evaluative techniques, and curriculum procedures, school law, finance, and other appropriate subjects.

**62.594 PRACTICUM IN EARLY CHILDHOOD
EDUCATION**

6 semester hours

An individually prescribed course of study and activity based on (but not limited to) previous experience and academic achievement. Consent of program coordinator and department chairperson required.

**62.595 INDIVIDUALIZED INSTRUCTION —
PRINCIPLES AND PRACTICES FOR
THE CLASSROOM**

3 semester hours

An analysis of practices, principles, and procedures for individualizing instruction. Experiences include procedures for adapting conventional instructional modes to individualized settings.

62.599 MASTER'S RESEARCH PAPER

3 semester hours

Student demonstrates ability to employ accepted methods of educational research in the solution or intensive study of some problem area of interest or concern to him or her. The problem area selected for the research project must be related to the curriculum that the student is pursuing.



Master of Education in Reading

Edward Poostay, coordinator

Purpose:

This program is intended to prepare experienced teachers to become reading supervisors or specialists through learning experiences in diagnostic and remedial techniques, insights in psychology of learning, means of stimulating enjoyment of reading, training in supervision procedures, and clinical practice.

Prerequisites:

Level I Certification; a basic course in teaching reading.

Required:

Departmental paper

Elective Courses:

Elective courses from disciplines other than reading may be selected dependent upon the needs and educational background of the student.

Examination:

A comprehensive written and/or oral examination is a graduation requirement in this program.

COURSE DESCRIPTIONS

Reading (Code 63)

63.540 INTRODUCTION TO THE TEACHING OF READING

3 semester hours

On examination of trends in reading instruction; development of competence in the use of different approaches to the solution of reading problems.

63.541 DIAGNOSIS AND PRESCRIPTION IN READING REMEDIAL READING DIFFICULTIES

3 semester hours

Diagnostic and remedial procedures emphasizing both standardized and informal techniques, analysis of extreme reading disabilities, preparation of a case study, stress of corrective and remedial procedures, and a working knowledge of how to write prescriptions for clients with reading problems.

63.542 PSYCHOLOGICAL ASPECTS OF READING

3 semester hours

Psychological foundations of learning theories, their relationship to reading, their subsequent effect on reading achievement.

63.543 READING CLINIC I

3 semester hours

Clinical experience in the diagnosis and remediation of reading and/or learning disabilities; diagnosis, development, administration, and evaluation of individual programs; case studies.

Prerequisites: 6 hours selected from 63.541, 548, 542, and consent of the director

63.544 READING CLINIC II

3 semester hours

Clinical experience in the development of reading skills and comprehension with persons who may or may not have remedial and/or learning disabilities. Combined with 63.543 gives experience with all levels. Continued evaluation of individual programs, case studies.

Prerequisites: 6 hours selected from 63.541, 542, 548, and consent of the director

63.545 ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF READING PROGRAMS (K-12)

3 semester hours

A course for the reading personnel, specialists, supervisors, and administrators who will or may become involved with the supervising and programming responsibilities of a reading program. A discussion of types of federal and/or school reading programs as well as a summary of the requirements of ESEA Titles, and how to write a federal program are an integral part of this course.

63.546 READING IN THE CONTENT AREAS

3 semester hours

Designed for teachers in grades four to 12. Procedures and materials presented in word perception, special reading and study skills, vocabulary development, dictionary skills, and library techniques.

63.547 SEMINAR IN READING

3 semester hours

Independent work in the study of recent research in the field of reading as it is applied to the departmental paper. New curricular, materials, and procedures of teaching reading.

63.548 LEARNING DISABILITIES AND READING INSTRUCTION

3 semester hours

This course is designed for the reading specialist and/or reading supervisor. Language disorders as a factor in learning. Perceptual abilities, i.e., auditory and visual modalities for learning disabilities. Recent research in the area of learning disabilities.

63.549 TEACHING READING TO THE HEARING IMPAIRED/LANGUAGE-HANDICAPPED CHILD

3 semester hours

Principles, practices, methods, and materials of teaching reading to the hearing impaired/language handicapped; discussion, reading, clinic practices with clients, and library research.

COURSE DESCRIPTIONS

Secondary Education

(Code 65)

William O'Bruba, coordinator

65.530 INSTRUCTIONAL DEVELOPMENT IN MIDDLE AND JUNIOR HIGH SCHOOLS

3 semester hours

Inquiry into the role of early secondary education by analyzing historical trends, curricular patterns, instructional designs, and personnel structure of this organization unit. Emphasis on teacher behavior, student values and attitudes, and instructional designs peculiar to the junior high, middle, and intermediate schools.

65.560 DEVELOPMENT OF THE SECONDARY SCHOOL CURRICULUM

3 semester hours

Problems related to development, experimentation, and improvement of curriculum practices in the secondary school.

65.571 EVALUATING TEACHING IN MIDDLE AND SECONDARY SCHOOLS

3 semester hours

Improvement of instruction through self analysis. Micro-teaching techniques, planning dimensions, self-appraisal techniques. Designed for teachers with special reference to the work of cooperating teachers.

65.581 INDEPENDENT STUDY IN SECONDARY EDUCATION

1-6 semester hours

See course description for 60.581.

65.583 SEMINAR IN SECONDARY EDUCATION

1-6 semester hours

See course description for 60.583.

Educational Supervision

(Codes 60, 62, 65)

John Hranitz, coordinator

**Specialization for
Supervisor of Curriculum and Instruction
(N-12) Certificate Program**

Purpose:

The Supervisor of Curriculum and Instruction Program is designed for candidates seeking certification with district-wide responsibilities and includes designing, coordinating, improving, evaluating, and extending instruction from N-12.

Prerequisites:

- (1) Candidates must provide proof of a Pennsylvania teaching certificate.
- (2) Candidates must provide evidence of at least five years of teaching experience. (Experience on an emergency certificate or an interim certificate is not acceptable).

Required:

Candidates must complete a minimum of 30 graduate credits from seven areas of competency.

- (1) Curriculum and instruction—theory, design, and development
- (2) Curriculum and early childhood, elementary, middle, and secondary education
- (3) Research
- (4) Supervision, management, and administration
- (5) Group dynamics
- (6) School law and finance
- (7) Practicum – field experience

**Specialization for
Subject Area Supervisory
(K-12) Certificate Program**

Purpose:

This program is designed for the person with primary responsibility for supervising and directing the activities of professional and non-professional employees in given fields.

Areas of Specialization:

Curriculum and Instruction	36 credits
Early Childhood Education	24 credits
Elementary Education	24 credits
Reading	30 credits
School Health Service	24 credits

Secondary Education	24 credits
Communication	
Foreign Languages	
Mathematics	
Science	
Social Studies	
Special Education	24 credits

Prerequisites:

- (1) Concentration in area for which certification is sought.
- (2) At least five years of experience in the field for which certification is sought. (Valid certificate in the field.)

Required:

A minimum of 21 semester hours of graduate courses from the following areas:

- (1) management and administration,
- (2) principles and practices in school supervision,
- (3) school law and finance,
- (4) group dynamics,
- (5) research techniques,
- (6) curriculum development, and
- (7) practicum-field experience.

Master of Science in Special Education

Andrew Karpinski, coordinator

Purpose:

This program is intended to improve the competence of the teacher of exceptional individuals, to develop potential for leadership and to prepare for further graduate study in the field.

Prerequisites:

Applicants must hold, or be eligible for, a current Pennsylvania teaching certificate for special education — Level I.

Program Options:

Applicants may elect preparation for teaching the mentally retarded, teaching the learning disabled, or teaching those with behavior disorders.

Required Courses:

Mental Retardation: 70.502, 515, 525, 526, 544, 554, 591, 599 Master's Research Paper or departmental paper (optional)—or 36 semester hour program.

Learning Disabilities:

70.505, 532, 544, or appropriate reading course, 70.560, 590, 599 Master's Research Paper or departmental paper (optional) — or 36 semester hour program.

Behaviorial Disorders: 70.570, 571, 572, 599 Master's Research Paper or departmental paper (optional) —or 36 semester hour program.

Master of Science in Special Education *Specialization in Exceptional Persons*

Purpose:

This program is designed for professionals not in education who wish to expand their knowledge and develop new skills for working with the exceptional person.

Prerequisite:

Applicants must possess an earned baccalaureate degree from an accredited college or university and must meet all entrance requirements as stated in the current *Graduate Catalog*.

Program Options:

Applicants will have the opportunity to select courses outside of special education to acquire additional information and skills in his or her own discipline.

Required Courses:

70.516, 565, or 591, five of the following: 70.455, 490, 501, 502, 517, 526, 532, 544, 552, 559, 560, 562, 570, 599 master's research paper or departmental paper (optional) — or 36 semester hour program.

Master of Science in Special Education *Specialization in Gifted/Talented Persons*

Purpose:

This program is designed for those who wish to expand their knowledge and develop new skills for working with gifted individuals.

Prerequisites:

Applicants must possess an earned baccalaureate degree from an accredited college or university and must meet all entrance requirements as stated in the current *Graduate Catalog*.

Program Options:

Applicants will have the opportunity to select courses to acquire additional information and skills related to their particular situation.

Required Courses:

60.591 or 70.565, 517, 518, 62.534, 70.519, 552, 592, 599 Master's Research Paper or departmental paper (optional) — or 36 semester hour program.

COURSE DESCRIPTIONS

Special Education

(Code 70)

70.432 LANGUAGE II

3 semester hours

Designed to aid the student in preparing to teach exceptional children basic and refined written language skills. Course content includes methods and materials for teaching penmanship, spelling, syntactical structure, and reading.

Prerequisite: 70.101, 231, and 62.371 or equivalent

70.450 METHODS FOR ELEMENTARY SPECIAL EDUCATION

3 semester hours

Fundamental principles for, and a variety of teaching techniques applicable to, the range of elementary levels of special education. Organization of programs, curricular approaches, and materials for the special education teacher.

Prerequisite: 70.101, 200, 250, and/or 251

70.451 METHODS FOR SECONDARY SPECIAL EDUCATION

3 semester hours

A student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of special education students. Practice in the use of various teaching aids and machines related to student projects in secondary special classes.

70.455 LEARNING DISABILITIES

3 semester hours

A study of the characteristics and symptoms of specific learning disorders. Students are introduced to diagnostic and educational procedures used with learning disorders. Emphasis is on perceptual and conceptual factors in the development of language skills.

For individuals who have not had a previous course in learning disabilities.

70.490 SPECIAL WORKSHOP I

1-6 semester hours

Temporary special workshop seminars designed to focus on contemporary trends, topics, and problems in the field of special education. Lecturers, resource speakers,

team teaching, field experience and practicum, new media, and related techniques. Usually are funded projects.

70.491 SPECIAL WORKSHOP II

1-6 semester hours

Refer to course description for 70.490.

70.492 SPECIAL WORKSHOP III

1-6 semester hours

Refer to course description for 70.490.

70.501 ADMINISTRATION AND SUPERVISION OF EDUCATION FOR EXCEPTIONAL INDIVIDUALS

3 semester hours

Application of fundamental principles of school administration and supervision to the areas of exceptionality and to problems unique to each. School law, teacher recruitment, inservice education, organization and integration of special education and ancillary services, evaluation of special provisions, and finance as these bear on special education.

70.502 MENTAL RETARDATION

3 semester hours

Intensive review of research pertaining to etiology of mental retardation, classification systems, and diagnosis. Includes study of brain injury, familial retardation, research on learning characteristics, and evaluation of psychological tests. Criteria distinguishing mental retardation from other problems.

70.505 SEMINAR IN LEARNING DISABILITIES

3 semester hours

This course is designed to facilitate an in-depth study of the behavioral characteristics and cognitive development of children with specific learning disabilities. It is specifically intended for those graduate students seeking a master's degree with concentrated emphasis in learning disabilities. Enrollment is limited to those who have the necessary prerequisites and with the approval of the instructor.

70.515 CURRICULUM AND MATERIALS FOR THE EDUCABLE MENTALLY RETARDED

3 semester hours

Problems-oriented course concerned with principles and procedures of curriculum and materials development and construction. Designed to further develop and/or refine the special education teacher's competence in developing adequate, meaningful curricular experiences for the retarded at various levels.

70.516 PSYCHOLOGY OF EXCEPTIONAL INDIVIDUALS

3 semester hours

Symptomatology, personality formation, and developmental and therapeutic consideration for the exceptional individual.

70.517 EDUCATION OF THE GIFTED INDIVIDUAL
3 semester hours
Principles and practices that are modifying school programs to conserve and develop to the optimum degree the capabilities of the more able individuals. A study is made of teaching techniques and devices used effectively in both the elementary and the secondary school.

70.518 IDENTIFICATION AND EVALUATION IN GIFTED/TALENTED EDUCATION
3 semester hours
This course is designed to provide information that will assist students to become familiar with physical, mental, emotional, and social characteristics of the gifted/ talented and to use formal and informal assessment devices and procedures to identify, evaluate, and classify the gifted/ talented so that appropriate individual educational programs may be provided for them. Ways of developing informal assessments, gathering, and storing observational information and classifying gifted/ talented students according to individual educational needs will be covered.

70.519 CURRICULUM AND PROGRAM DEVELOPMENT IN GIFTED/TALENTED EDUCATION
3 semester hours
The purpose of this course is to provide in-service teachers, administrators, interested parents, and others with comprehensive theoretical and practical approaches to teaching gifted/ talented individuals. The intention is to present a variety of approaches that can be combined or integrated into a unique plan to fit each individual's needs.

70.525 CURRICULUM AND MATERIALS FOR LOW FUNCTIONING MENTALLY RETARDED
3 semester hours
Designed to give the student intensive study and understanding of the trainable mentally retarded child. Emphasis on curriculum development, methods, and materials to be used with the trainable mentally retarded child in school. Research, methods of diagnosis and differentiation, implications for training, and psychological planning.

70.526 VOCATIONAL WORK STUDY PROGRAM
3 semester hours
Investigation and analysis are concerned with manual skills at various developmental levels. Research criteria and information are applied to job performance and adjustments and to the community and to job opportunities. Experience is provided in job analysis for skills involved and in surveying job adjustments of handicapped adults.

70.532 COMMUNICATION DISORDERS OF EXCEPTIONAL INDIVIDUALS
3 semester hours
Review of research and analysis of language and speech development in relation to intellectual development, cultural background and other influences, criteria and techniques for developing language and speech in the special class, role of speech correctionist and others to teachers.

70.544 DIAGNOSTIC AND REMEDIAL TECHNIQUES
3 semester hours
Diagnostic and remedial techniques and instruments used with children in special education programs. Critical evaluation of applicability of each to the child in relation to causes and conditions of exceptionality. Development of skills in interpreting and writing case histories and reports in selection and application of remedial techniques and evaluation of progress.
Prerequisite: A course in tests and measurements or its equivalent

70.552 PROJECT IN SPECIAL EDUCATION
3 semester hours
Designed to further student's own interest and competency in an areas of special education for the exceptional child. Library research or individual projects involving service to the exceptional person may be agreed upon and conducted under supervision of a staff member.

70.554 DISORDERS OF WRITTEN COMMUNICATION
3 semester hours
Designed for students with at least minimal background in the area of written language, i.e., decoding and encoding processes. Reviews the development and acquisition of reading, spelling, and writing. In-depth study of specific disorders, etiological factors, developmental, and remedial techniques and practices. Specific topics for scholarly research papers determined according to individual needs, experience, and interest. Students required to demonstrate proficiency in all aspects of written language.

70.559 SEMINAR IN EDUCATION OF EXCEPTIONAL INDIVIDUALS
3 semester hours
Research oriented and devoted in its entirety to problems in the education of exceptional individuals. The problems may be theoretical or practical. Consideration is given to those that are of individual interest to the student.

70.560 NEUROLOGICALLY IMPAIRED INDIVIDUALS
3 semester hours
Terminology necessary to interpret diagnostic reports, classroom techniques for managing brain-injured individuals, preparation to work with individuals with specific learning disabilities that are related to neurological dysfunction and concomitant behavior.

**70.562 PROBLEMS OF INDIVIDUALS WITH
IMPAIRED MOTOR DEVELOPMENT**

3 semester hours

Gives the students information and experience with the problem of individuals with educationally relevant motor disabilities. Covers normal motor development; formal and informal assessment of motor skills and problems; developmental and corrective preschool and elementary school programs; conditions resulting in severe motor disabilities, self-care, academic, and psycho-social aspects of physical disability; pre-vocational and vocational adjustment of the physically handicapped; and current issues related to research and litigation.

**70.565 READING AND INTERPRETING
RESEARCH IN SPECIAL EDUCATION**

3 semester hours

Aids the student in reading, understanding, and evaluating the results of statistical and behavioral research carried out by others. Covers a working knowledge of basic statistical terms, an introduction to the type of research questions that can be answered by various statistical procedures, a knowledge of the basic steps of hypothesis testing, analysis and comparison of excellent and poor research designs, and the development of an ability to detect misuse of statistics.

**70.570 FOUNDATIONS OF BEHAVIOR
DISORDERS**

3 semester hours

An information-based course covering the characteristics of children with behavior disorders, approaches to remediation, general principles of classroom management, simulated problem solving, ideal academic models for children with behavior disorders, research findings, and sources of information.

**70.571 INTERVENTION WITH BEHAVIOR
DISORDERED INDIVIDUALS**

3 semester hours

A field-based experience where majors meet in class and are given assignments to perform in their classrooms. Observations are made, and feedback is provided. Results of interventions are shared in group class sessions, and strategies are multiplied for all.

70.572 SEMINAR ON BEHAVIOR DISORDERS

3 semester hours

A regularly scheduled seminar group composed of those who have completed the first two courses in the master's behavior disorders sequence. The group will deal with reading new research and discussing implications for applications, as well as future directions, moral issues and more advanced systems of management and instruction.

**70.590 DIAGNOSTIC AND TEACHING
PRACTICUM IN LEARNING
DISABILITIES**

3-6 semester hours

Opportunity to work in a structured setting on a one-to-one and small group basis. Practicum is the culminating activity wherein the teacher will apply the knowledge previously acquired in academic courses through the interpretation of diagnostic reports, evaluating children's needs, planning, and carrying out programs and making recommendations for each child's future educational program.

**70.591 PRACTICUM IN TEACHING THE
MENTALLY RETARDED AND
PHYSICALLY HANDICAPPED**

3 semester hours

This practicum course is designed to facilitate in-service training for teachers who are currently certified to teach the mentally retarded and physically handicapped. Students select an area of primary interest; and under closely supervised conditions (by the instructor), conduct the project as part of their professional assignment. Permission to register for the course must be obtained from the instructor assigned to supervise the practicum.

**70.592 INTERVENTION IN GIFTED/
TALENTED EDUCATION**

3 semester hours

Designed to facilitate practical training of individuals interested in acquiring a gifted/talented master's degree. Students, under close supervision by department faculty, select an area of interest and contract for a project that enables them to demonstrate a mastery of a set of competencies considered germane to the objectives of the course. Permission to supervise the practicum is required from the instructor.

70.595 INTERNSHIP

3-6 semester hours

Internship in special education. Supervision to take place in schools or educational situations under supervision of the local supervisor and graduate faculty.

70.599 MASTER'S RESEARCH PAPER

3-6 semester hours

Opportunity to employ accepted methods of educational research in the solution or intensive study of some problem area of interest or concern. The problem area selected for the research project must be related to the exceptional person.

Master of Science in Communication Disorders

Samuel Slike, coordinator,
Education of the Hearing Impaired Program
G. Donald Miller, coordinator,
Audiology Program
Ronald Champoux, coordinator,
Speech and Language Pathology Program

Purposes:

The purposes of the graduate program in communication disorders are:

- (1) To prepare clinicians in speech and language pathology and audiology for schools, hospitals, and clinics
- (2) To prepare teachers of the hearing impaired

Students in speech and language pathology and audiology who wish to meet requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association should refer to the department's list of requirements. Students in education of the hearing impaired may satisfy the requirements for certification by the Council on Education of the Deaf.

Admission Requirements and Prerequisites:

Admission to full-time graduate study is subject to an annual quota with selection made on the basis of undergraduate Quality Point Average and the following prerequisites for the areas of study:

- (1) Speech and Language Pathology Audiology — an undergraduate major in this field or the make-up of deficiencies including clinical training and practicum
- (2) Education of the Hearing Impaired — an undergraduate curriculum that included teacher certification together with courses constituting the equivalent of a minor in communication disorders. Deficiencies must be made up without graduate credit.

Required Courses:

Master's research paper or department paper; courses and practicum to fulfill requirements for the desired credentials selected subject to the approval of the adviser.

Elective Courses:

Elective courses may be chosen with approval of the adviser from codes 70, 74, and 48.

COURSE DESCRIPTIONS

Communication Disorders

(Code 74)

74.460 PSYCHOLINGUISTICS

3 semester hours

Language as a psychological phenomenon, nature and acquisition of meaning and the learning of systems, influences of verbal and nonverbal antecedent conditions on both verbal and nonverbal learning. Descriptive models of language mediators in behavior.

Prerequisite: 74.251, 276

74.467 APPLIED BEHAVIOR ANALYSIS IN SPEECH AND LANGUAGE THERAPY

3 semester hours

Applications of the psychology of learning to communicative behavior and clinical problems. Current educational and therapeutic trends and practices.

Prerequisite: 74.351

74.471 SEMINAR IN SPEECH PATHOLOGY

3 semester hours

Surveys the most current diagnostic and clinical procedures available in speech-language pathology and discusses the applicability of the procedures to the clinical populations being serviced by the seminar students.

74.472 MEASUREMENT OF HEARING LOSS

3 semester hours

The anatomy and physiology of the hearing mechanisms are studied. Etiology of hearing losses, interpretation of audiometric evaluations, and available rehabilitative procedures are discussed. Laboratory experience in the administration of clinical audiometric evaluation is provided.

Prerequisite: 74.276, 376

74.490 COUNSELING COMMUNICATIVELY DISORDERED INDIVIDUALS AND THEIR FAMILIES

3 semester hours

Designed to help students identify counseling needs of communicatively disabled individuals and their families and to provide basic, short-term counseling. Students introduced to various counseling strategies in individual and group settings as appropriate to schools and speech and hearing clinics.

74.501 INTRODUCTION TO SIGN LANGUAGE

3 semester hours

Involves a study of basic sign language vocabulary and fingerspelling techniques used in communication with hearing impaired individuals. Emphasis on developing proper expressive and receptive skills.

**74.504 INTERNSHIP IN SUPERVISION OF
SPEECH AND HEARING PROGRAMS**

3-6 semester hours

Present practices and philosophies in public school are examined. Merits of existing programs are considered. Educational structures and national, state, and local requirements are reviewed. Research trends and advanced practices in the field are considered. Includes analyses of equipment materials, record-keeping procedures, and related materials.

**74.505 SUPERVISION AND ADMINISTRATION
OF SPEECH AND HEARING SERVICES**

3 semester hours

General principles of supervision are examined, and professional personnel practices are explored.

74.510 OROFACIAL AND SPEECH DISORDERS

3 semester hours

The course will concentrate on orofacial structured deficits and their effect on speech. Specific attention will be given to clefts of the prepalate and palate and their sequelae on speech.

**74.511 NEUROMUSCULAR SPEECH
DISORDERS**

3 semester hours

Etiology, diagnosis, and treatment of organic factors are subjects of intensive study. Emphasis on articulatory abnormalities of speech processes caused by cerebral palsy and other neurological impairments. Implications of disorders for developmental age levels are considered.

74.512 ADULT APHASIA

3 semester hours

The study of language disorders in brain injured adults. Among the areas of concentration are the history of aphasia, the neurological basis for aphasia, symptomatology of aphasia, associated problems, intelligence and aphasia, the evaluation of language and non-language functions and current rehabilitative procedures.

74.518 CHILD LANGUAGE DISABILITIES

3 semester hours

A review of normal language acquisition with primary emphasis on the application of developmental information to the diagnosis and habilitation of language disorders in children.

**74.532 HEARING AIDS AND AUDITORY
TRAINING**

3 semester hours

Theoretical and clinical analyses of literature are evaluated in relation to educational and other rehabilitative measures available to individuals with serious organic and non-organic hearing problems. Study, interpretation, and evaluation of modern instruments and tests are included.

**74.540 SEMINAR IN CURRENT CLINICAL
PROCEDURES**

3 semester hours

Reviews contemporary diagnostic and therapeutic procedures. The class participates in selecting the specific instruments for review and study.

74.541 STUTTERING

3 semester hours

The development, diagnosis, and treatment of stuttering disorders with equal emphasis on academic understanding and clinical management.

74.553 SPEECH PATHOLOGY PRACTICUM

6 semester hours

Special clinical problems of clients are considered through advanced study and experience. Externships may be arranged in approved institutions or schools. Problem areas and student practicums must be approved by graduate adviser.

**74.554 CLINICAL PRACTICUM IN
AUDIOLOGY**

3 semester hours

Hearing losses and deafness affecting the personal and socio-economic adjustment of individuals are evaluated and treated through supervised study and experience. Externships may be arranged in approved private and public institutions.

**74.555 CLINICAL PRACTICUM IN
AUDIOLOGY**

3 semester hours

See course description for 74.554.

**74.560 INTERMEDIATE SPEECH AND
LANGUAGE PRACTICUM IN
EDUCATION OF HEARING IMPAIRED**

3 semester hours

Provides an opportunity to work with hearing impaired children and/or adults. Emphasis is on speech and language remediation of hearing impaired individuals.

74.561 VOICE DISORDERS

3 semester hours

The diagnosis and clinical management of functional and organic voice disorders.

**74.562 RESEARCH IN SPEECH AND
LANGUAGE PATHOLOGY**

3 semester hours

The application of clinical and non-clinical research literature to the solution of treatment problems encountered in speech and language pathology.

74.563 RESEARCH IN AUDIOLOGY

3 semester hours

The application of clinical and non-clinical research literature to the solution of diagnostic and treatment of problems encountered in the general practice of audiology.

- 74.564 SPEECH FOR THE HEARING IMPAIRED**
3 semester hours
 Study of the principles and techniques used in development and formation of the English speech sounds by the synthetic and analytic methods with special consideration given to production, classification, and transmission of speech sounds. Supervised demonstrations and practicums are an integral part of the course.
- 74.565 PROBLEMS AND TRENDS IN TEACHING THE HEARING IMPAIRED**
3 semester hours
 Current practices and trends in education and welfare of the hearing impaired. Concerned with psychology, social adjustment, educational achievement, political and social viewpoints, learning problems, and vocational competence of hearing impaired. New techniques and methodologies.
- 74.566 LANGUAGE FOR THE HEARING IMPAIRED I**
3 semester hours
 Study of the principles and techniques used in the development and correction of language for the hearing impaired. The student is made familiar with leading systems of natural language development designed for the hearing impaired. The step-by-step development of at least one language system is an area of study for each student. Supervised demonstrations and practicums are an integral part of the course.
- 74.567 LANGUAGE FOR THE HEARING IMPAIRED II**
3 semester hours
 Study of structured approaches to teaching spoken and written language, of language assessment devices, appropriate lesson planning, etc. Supervised demonstrations and presentations are an integral part of this course.
- 74.568 COMMUNICATION FOR THE HEARING IMPAIRED (SIGN LANGUAGE)**
3 semester hours
 Study of the expressive and receptive methods of communication used by the hearing impaired with emphasis on new techniques and methodologies.
- 74.569 CURRICULAR SUBJECTS FOR THE HEARING IMPAIRED**
3 semester hours
 Practices, content, and methods of teaching school subjects to the hearing impaired are examined with emphasis on content and methods rather than theory.
- 74.570 PRACTICUM WITH THE HEARING IMPAIRED**
6 semester hours
 Hearing losses affecting the communicational, educational, and vocational adjustment of individuals are evaluated through supervised observation, clinical practice,

and practicum experience. Students are assigned to approved private and public programs for the hearing impaired where they work with selected professionals in communication disorders, following the same schedules and assuming responsibilities similar to those of professionals. Arrangements relating to student interest must be approved by program adviser.

- 74.571 SEMINAR IN COMMUNICATION DISORDERS**
3 semester hours
 Selected theoretical and clinical areas of communication disorders and related disciplines. Selected areas may include clinical and research topics pertaining to student needs.
- 74.572 SEMINAR IN AUDIOLOGY: SPECIAL PROBLEMS**
3 semester hours
 Analysis, interpretation, and study are made of selected problems in audiology and related disciplines that may include education, psychology, otology, rehabilitation, and other fields.
- 74.573 SEMINAR IN AUDIOLOGY: INDUSTRIAL AND PUBLIC HEALTH AUDIOLOGY**
3 semester hours
 Problems and programs of hearing conservation in public institutions and industries examined with special emphasis on legislation and medico-legal questions. Role and function of the public health and industrial audiologist is examined.
- 74.574 SEMINAR IN AUDIOLOGY: AUDITORY PROBLEMS IN CHILDREN**
3 semester hours
 Congenital and acquired hearing impairment in children is examined with special emphasis on problems of differential diagnosis. Educational and social implication of hearing impairment in children is discussed in conjunction with appropriate habilitative procedures.
- 74.576 SEMINAR IN AUDIOLOGY: THEORETICAL AND CLINICAL MASKING**
3 semester hours
 Neurophysiological and acoustic basis of problems of masking in auditory measurement are explored, and training is offered in clinical masking procedures.
- 74.580 INDEPENDENT STUDY AND RESEARCH**
3 semester hours
 Permits students to work under close faculty guidance on library study of specified areas or on individual research projects when particular needs cannot be met by registration in regularly scheduled courses.

74.581 INDEPENDENT STUDY AND RESEARCH

3 semester hours

See course description for 74.580.

74.582 INDEPENDENT STUDY AND RESEARCH

3 semester hours

See course description for 74.580.

74.584 RESEARCH IN HEARING IMPAIRMENT

3 semester hours

74.590 PROBLEMS AND SPECIAL TOPICS IN EDUCATION AND HABILITATION OF THE HEARING IMPAIRED

1-6 semester hours

74.599 MASTER'S THESIS

3-6 semester hours



School of Health Sciences

Lauretta Pierce, director

Master of Science in Nursing

Programs of Study:

Bloomsburg University's Department of Nursing offers a Master of Science in Nursing in psychiatric/ community mental health, community health, and adult health and illness. The programs of study prepare graduates as clinical specialists in the advanced practice of professional nursing. A minimum of 36 credits is required for graduation.

Admission Requirements:

In addition to meeting the admission requirements of Bloomsburg University, the student must have:

- (1) a bachelor's degree with a nursing major from an NLN accredited program;
- (2) a license to practice nursing in the United States;
- (3) at least one year of clinical practice, postbaccalaureate degree in the area of clinical specialty by time of candidacy;
- (4) graduate record examination (verbal, quantitative, analytical): composite score-1,200 minimum; an undergraduate QPA of 3.00; successful completion of an undergraduate course in (a) statistics, (b) research, (c) health assessment (as separate course or integrated content);
- (5) three letters of professional recommendation;
- (6) a narrative submitted about personal and professional goals for graduate education. Following a preliminary review of admission materials, qualified students are given a personal interview with faculty members.

Note: Applicants who do not meet the identified requirements for admission will be considered on an individual basis. These applicants may be admitted on a provisional basis until such time as identified prerequisites are completed or potential abilities for graduate education are demonstrated.

Required Courses:

- I. Core Courses – 82.501, 502, 503, 590 (12 semester hours),
- II. Clinical Specialization (12 semester hours), and
- III. Elective Courses (12 semester hours).

Elective Courses:

Graduate level courses to fulfill elective requirements will be chosen by the student and an adviser based on career needs, clinical option requirements, and role development of clinical nurse specialist. Electives may be selected from courses in psychology, sociology, political science, education, business, communication disorders, speech communication, and nursing.

COURSE DESCRIPTIONS

Nursing (Code 82)

82.501 RESEARCH

3 semester hours

Prepares students to initiate, conduct, and utilize research in improving the quality of health care for clients. Focuses on the consideration of nursing theories for theoretical frameworks, the use of appropriate research process and methodology, and the planning and development of a research proposal.

82.502 CONCEPTUAL MODELS IN NURSING

3 semester hours

Explores theory building and levels of theory, the relationship of models to theories, the elements of a model, and major conceptual models in nursing practice. Students do an in-depth analysis of one specific conceptual model in nursing.

82.503 ROLE THEORY AND DEVELOPMENT IN NURSING PRACTICE

3 semester hours

Examines the components of role theory and their applicability to the students in advanced clinical practice in nursing. Students apply principles and strategies inherent in the theory to problems, issues, and concerns in functional role development of the clinical nurse specialist.

82.504 PHYSICAL ASSESSMENT

3 semester hours

Focuses on broadening students' knowledge and perspective of physical assessment of individuals across the life span. Learning experiences provided to develop a systematic approach to physical assessment with synthesis of cognitive knowledge with psychomotor skills. Emphasis on the wellness component of physical assessment with reference to major health deviations.

82.505 ADVANCED PATHOPHYSIOLOGY

3 semester hours

Presents selected aspects of genetic, biochemistry, physiology, and pharmacology as applied to nursing practice. Embryonic, histologic, and gross anatomical features of certain organ systems are functionally related to biochemical and physiological mechanisms essential for the maintenance of a stable internal environment. Some deviations from normal metabolism, structure, and function are considered.

82.510 PSYCHIATRIC/MENTAL HEALTH NURSING I

6 semester hours

Presents theory concurrent with advanced clinical practice in psychiatric/mental health nursing. Students examine theoretical formulations in nursing and related disciplines and select a conceptual framework as a model

for clinical practice. Students employ the nursing process with increased experience and accountability as they work individually and collectively with individuals, families, and the interdisciplinary health team in the promotion of mental health and the treatment of mental illness. Research is utilized and initiated as a means of improving the quality of mental health care. Clinical practicum is provided in a variety of hospital and community settings where students may implement the roles of clinician, administrator, educator, consultant, and researcher.

82.511 COMMUNITY HEALTH NURSING I

6 semester hours

Focuses on advanced professional practice in the multifaceted roles of the community health clinical specialist. Students employ advanced knowledge and skills derived from an analysis of nursing theories, models, and community health nursing practice in implementing health promotion, maintenance, and restoration strategies with high-risk individuals, families, and community aggregates in a variety of health care settings. Students assume leadership roles in working independently and interdependently with clients and health professionals to improve the quality of health care delivery. A weekly seminar session provides opportunities for students to analyze the impact of current trends and issues on contemporary practice and to formulate strategies to effect positive change.

82.512 ADULT HEALTH AND ILLNESS NURSING I

6 semester hours

Presents theory content with advanced clinical nursing practice in adult health and illness. Students examine theoretical formulations in nursing and related disciplines to the adult client's ability to adapt to maturational and situational stressors. Students utilize the nursing process with increased expertise and accountability with individuals, families, communities, and the interdisciplinary health team in the promotion of adult health and the treatment of adult illness. Research skills are enhanced through seminar presentations, clinical experiences, and written course assignments aimed at improving the quality of adult health care. Clinical practicums is provided in a variety of primary, secondary, and tertiary health care settings where students begin to implement the clinical specialist's roles of clinician, administrator, educator, consultant, and researcher.

82.513 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR IN ADVANCED NURSING PRACTICE I

3 semester hours

Explores the concepts of organizational styles and theories of management behavior related to the role of the clinical specialist in advanced nursing practice. Focuses on leadership theories, strategies for motivation and change, concepts of power and influence, and organizational decision making.

82.514 INDEPENDENT STUDY

3 semester hours

The student works with a faculty preceptor in conducting an individualized study related to a particular area of clinical interest.

82.530 PSYCHIATRIC/MENTAL HEALTH NURSING II

3 semester hours

Advanced professional practice in the multifaceted roles of the clinical nurse specialist in psychiatric/mental health care. Students apply advanced knowledge of theories and skills in the provision of mental health care to clients in a variety of settings and collaboratively with clients and other health professionals in improving the quality of mental health care delivery. Weekly seminar sessions provide opportunities to apply theory to practice as students analyze problems, issues, and concerns in professional practice as a psychiatric/mental health clinical nurse specialist.

82.531 COMMUNITY HEALTH NURSING II

6 semester hours

Provides the student opportunity for advanced professional practice in a variety of community settings in the multifaceted roles of the community health clinical nurse specialist. Focuses on analysis of risk factors of existing and/or potential health problems as they occur at the community level. Students assume positions of responsibility, functioning both independently and collaboratively with clients and other health professionals in improving the quality of health care delivery in the community. Weekly seminar sessions emphasize aspects of health planning. Opportunity is provided for the application of theory to practice as students analyze problems, issues, and concerns in professional practice as a community health clinical nurse specialist. Clinical practicum is provided in a variety of community settings. Arrangements relative to the clinical practicum are mutually derived by faculty, students, and appropriate agency personnel.

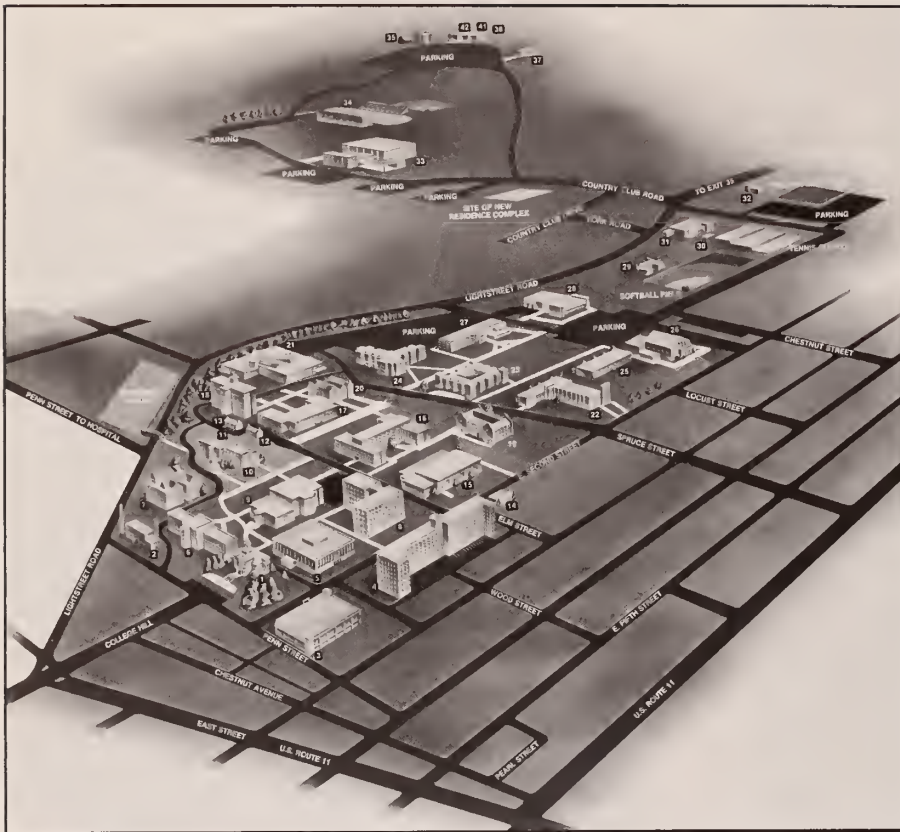
82.532 ADULT HEALTH AND ILLNESS NURSING II

6 semester hours

Concentrates on advanced professional nursing practice as a clinical nurse specialist within a specialized area of adult health and illness. Through independent study of current concepts, trends, and research within the specialized area of adult health and illness, students apply advanced knowledge of theories and skills in the provision of adult health care to clients in a variety of settings. Students enhance the multifaceted roles of the clinical nurse specialist in adult health and illness by assuming leadership positions in a health care setting and functioning both independently and collaboratively with clients and other health professionals in improving the quality of adult health care delivery. Weekly seminars provide opportunities to analyze current concepts, practices, trends, issues, and research within the specialized area of adult health and illness as a clinical nurse specialist.

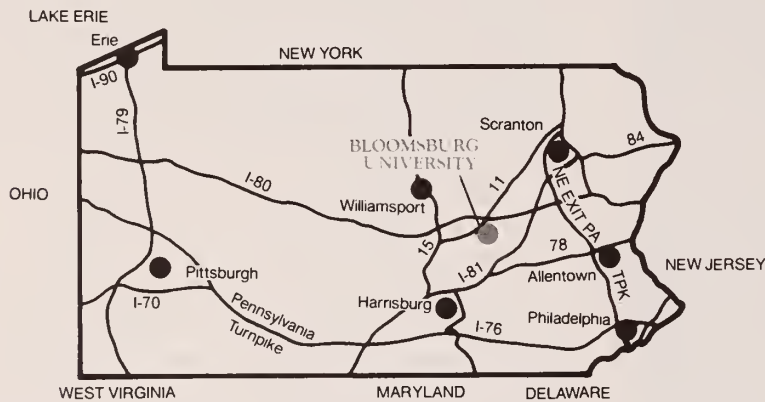


CAMPUS MAP



Key to Campus Map

1. Carver Hall
 2. Heating Plant
 3. Tri-level Parking
 4. Elwell Residence Hall
 5. Scranton Commons
 6. Schuylkill Residence Hall
 7. Old Science Hall
 8. Lycoming Residence Hall
 9. Kehr Union Building
 10. Montour Residence Hall
 11. Greenhouse
 12. Carpenter's Shop
 13. Walter Simon Hall
 14. May Building
 15. University Bookstore & Campus Security
 16. Luzerne Residence Hall
 17. Northumberland Residence Hall
 18. Columbia Residence Hall
 19. Benjamin Franklin Hall
 20. Navy Hall
 21. Haas Center for the Arts (Mitrani Hall)
 22. Hartline Science Center
 23. Harvey A. Andruss Library
 24. Bakeless Center for the Humanities
 25. Sutliff Hall
 26. Centennial Gymnasium
 27. McCormick Human Services Center
 28. Waller Administration Building
 29. President's Residence (Buckalew Place)
 30. Physical Education Facility
 31. Boyd Buckingham Maintenance Center
 32. Alumni House
 33. Nelson Fieldhouse
 34. Redman Stadium
 35. Stitley Dome Building
 36. Storage Facility (not shown on map)
 40. Storage Facility (not shown on map)
 41. Training and Information Processing Office
 42. Ground Crew Office
- Visitor Parking



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Bloomsburg University is committed to providing equal educational and employment opportunities for all persons without regard to race, color, religion, sex, age, national origin, ancestry, life style, affectional or sexual preference, handicap, Vietnam era status as veterans, or union membership. The university is additionally committed to affirmative action and will take positive steps to provide such educational opportunities. Inquiries may be directed to the Director of Affirmative Action, Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815, Telephone: (717) 389-4526.



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