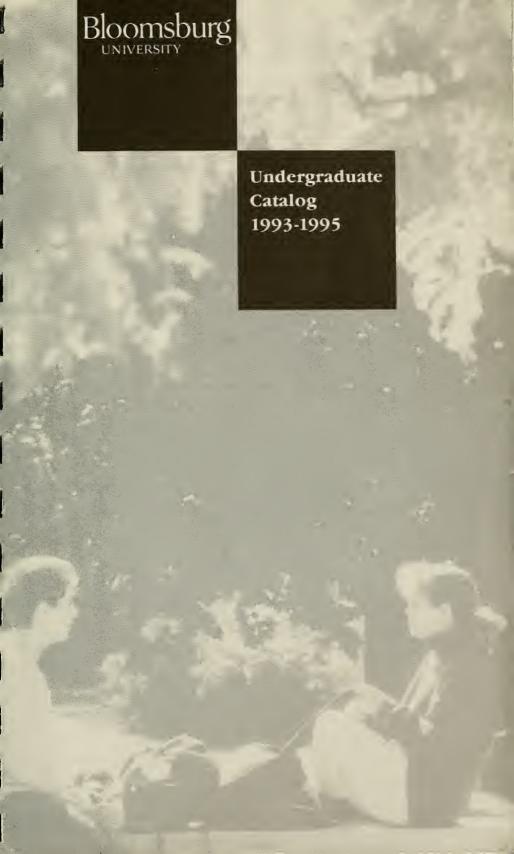


For information

Dial 389 plus the extension number from off-campus telephones. On campus, use the four-digit extensi For offices not listed, off campus call the university switchboard, (717)389-4000, on campus, call "0 a.m. to 4:30 p.m.

Academic Advisement	12 Ben Franklin Hall4	
Academic Affairs	Office of the Provost	
	115 Waller Administration Building4	
Academic Support Services	Luzerne Residence Hall4	
ACT 101/EO Programs	14 Waller Administration Building4	
Administration	Office of the Vice President for Administration	
	15 Waller Administration Building4	
Admissions Office	10 Ben Franklin Hall4	
Affirmative Action	Carver Hall4	
Alumni Affairs	Alumni House4	
Arts and Sciences,	Office of the Dean	
College of	106 Waller Administration Building4	
Athletics Office	Nelson Field House4	
Business, College of	Office of the Dean	
	221 Sutliff Hall4	
Business Office	22 Waller Administration Building	
Campus Child Center	Elwell Residence Hall	
Career Development Center	Kehr Union4	
Community Activities	Kehr Union4	
Cooperative Education-		
Academic Internships	15 Ben Franklin Hall4	
Counseling/Human Dev.	17 Ben Franklin Hall4	
Curriculum Materials Ctr.	McCormick Center for Human Services	
Development Office	Carver Hall4	
Extended Programs,	Office of the Dean	
School of	Magee Center, 700 West Main Street4	
Financial Aid Office	19 Ben Franklin Hall	
Graduate Studies	Office of the Assistant Vice President for Graduate Studies	
School of	109 Waller Administration Building4	
Health Center	Kehr Union	
Honors/Scholars Program	7 Bakeless Center for the Humanities	
Information Desk	Kehr Union3	
International Education	Lower Level, Luzerne Residence Hall4	
Library, Andruss	General Information4	
Ministries	Catholic (784-3123); Protestant (784-0703);	
	CM/353 College Hill (784-4593)	
Orientation Office	16 Ben Franklin Hall4	
Police, University	Basement of University Store4	



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Notice

The provisions of this catalog are not to be regarded as an irrevocable contract between the university and the student. Bloomsburg University reserves the right to amend any academic, administrative, or disciplinary policy or regulation (or fee) described in this catalog without prior notice to persons affected.

Requirements for graduation as well as curricula for degree programs, such as those requiring professional certification/licensure, may change throughout the student's matriculation. Such changes will not be retroactively required; however, the student will have the option to choose the new program or requirement, if desired.

Exceptions may be necessary when changes in professional certification or licensure standards mandate changes in academic requirements or in university programs.

Accreditation

Bloomsburg University is accredited by the Middle States Association of Colleges and Schools; the National Council for the Accreditation of Teacher Education; the National League for Nursing; the Council on Education of the Deaf; and the Council on Social Work Education. Programs of study have also been approved by the Pennsylvania State Board of Education and the State Board of Nursing. In addition, the bachelor of science program in chemistry offered by the Department of Chemistry is approved by the American Chemical Society.

Affirmative Action

Bloomsburg University is committed to providing equal educational opportunities for all persons without regard to race, color, religion, sex, age, national origin, ancestry, lifestyle, sexual orientation, handicap, Vietnam era status as veteran, or union membership. The university is additionally committed to affirmative action and will take positive steps to provide such educational and employment opportunities. Inquiries may be referred to: Director of Affirmative Action, Carver Hall, Bloomsburg University, Bloomsburg, PA 17815.

Access to Educational Records

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

Parents may have access to information pertaining to their son's or daughter's educational records and academic status without prior written consent of their son or daughter if he or she is a dependent as defined under Section 152 of the IRS Code of 1954. If the student is not a dependent, as defined by the IRS Code, then the university must receive prior written consent from the student in order to release such information to his or her parents.

Academic Calendars

Fall Semester, 199	93	Spring Semester,	1994
Classes begin at 8 a.m.	Aug. 30, Monday	Martin L. King Day (no classes)	Jan. 17, Monday
Labor Day (no classes)	Sept. 6, Monday	Classes begin at 8 a.m.	Jan. 18, Tuesday
Midterm begins at 10 p.m.	Oct. 12, Tuesday	Monday classes meet (no evening classes)	Jan. 21, Friday
Reading Day (no classes)	Oct. 15, Friday	Midterm begins at 10 p.m.	March 8, Tuesday
Thanskgiving recess begins at 1:50 p.m.	Nov. 24, Wednesday	Spring Break begins at noon	March 26, Saturday
Classes resume at 8 a.m.	Nov. 29, Monday	Classes resume at 6 p.m.	April 4, Monday
Classes end Reading Day	Dec. 11, Saturday Dec. 12, Sunday	Spring Weekend begins at 10 p.m.	April 13, Thursday
Finals begin Finals end	Dec. 13, Monday Dec. 18, Saturday	Classes resume at 6 p.m.	April 17, Monday
Commencement	Dec. 18, Saturday	Classes end Reading Day	May 7, Saturday May 8, Sunday
1994 Summer session May 31, Tuesday.	s begin	Finals begin Finals end Commencement	May 9, Monday May 14, Saturday May 14, Saturday
		Commencement	iviay 1 1, Daturday

Fall Semester, 199	94	Spring Semester,	1995
Classes begin at 8 a.m. Labor Day (no classes) Midterm begins at 10 p.m. Reading Day (no classes) Thanksgiving recess begins at 1:50 p.m. Classes resume at 8 a.m. Classes end Reading Day Finals begin Finals end Commencement 1995 Summer sessions May 30, Tuesday.	Aug. 29, Monday Sept. 5, Monday Oct. 11, Tuesday Oct. 14, Friday Nov. 23, Wednesday Nov. 28, Monday Dec. 10, Saturday Dec. 11, Sunday Dec. 12, Monday Dec. 17, Saturday Dec. 17, Saturday Dec. 17, Saturday	Martin L. King Day (no classes) Classes begin at 8 a.m. Monday classes meet (no evening classes) Midterm begins at 10 p.m. Spring Break begins at noon Classes resume at 8 a.m. Spring Weekend begins at 10 p.m. Classes resume at 6 p.m. Classes end Reading Day Finals begin Finals end	Jan. 16, Monday Jan. 17, Tuesday Jan. 20, Friday March 7, Tuesday March 11, Saturday March 20, Monday April 13, Thursday April 17, Monday May 6, Saturday May 7, Sunday May 8, Monday May 13, Saturday
		Commencement	May 13, Saturday

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Bloomsburg University

State System of Higher Education

Bloomsburg University of Pennsylvania is one of the 14 state-owned universities that compose the State System of Higher Education. In addition to 64 undergraduate degree programs and one associate degree program, Bloomsburg offers 18 master's degrees in select academic disciplines and a doctoral program in elementary education in cooperation with Indiana University of Pennsylvania.

Bloomsburg University, which offers curricula in liberal arts, business, nursing, allied health sciences, and teacher education, has more than 7,500 students. The university is organized as three colleges (Arts and Sciences, Business, and Professional Studies) and two schools (Graduate Studies and Extended Programs). The scope and internal structure of each college is described in the succeeding chapter of this catalog.

The home of Bloomsburg University is its namesake, the Town of Bloomsburg, the county seat of Columbia County, Pa. The industrial, trading, and residential community of nearly 12,000 is located 80 miles northeast of Harrisburg and is within two miles of two interchanges off Interstate 80.

Bloomsburg is served by Greyhound and Continental Trailways bus lines. Commercial airports in the Scranton/Wilkes-Barre area and in Williamsport are approximately an hour's drive from the university.

An academy "to teach youth the elements of a classical education" was established in Bloomsburg in 1839. The academy continued with varied fortunes until 1856 when a charter was prepared and stock issued to reorganize it as the Bloomsburg Literary Institute. Institute Hall, later renamed Carver Hall after Henry Carver, an early principal, architect, and teacher, was erected in 1867. Today, the gold-domed, red-brick building is the university's landmark.

Largely through the efforts of J. P. Wickersham, superintendent of public instruction, the Bloomsburg Literary Institute officially became the Bloomsburg Literary Institute and State Normal School in 1869; it continued under this name and organization until 1916 when it was purchased by the Commonwealth of Pennsylvania and named Bloomsburg State Normal School.

The emphasis at the Normal School changed during the early 1920s from secondary and college-preparatory courses for specialized teachers to full-time teacher education. In May 1927, the institutional name was changed to Bloomsburg State Teachers College, and the school was authorized to grant the Bachelor of Science in Education for teachers in elementary and secondary schools.

Under the administration of President Francis B. Haas (1927-

History

1939), great progress was made in the teacher education program, and a new degree program in business education was initiated.

Upon the naming of Dr. Haas as state superintendent of public instruction, Dr. Harvey A. Andruss, then dean of instruction and a former director of the Business Education Department, was appointed president, a position he held until his retirement in 1969. During World War II, the U.S. Navy V-12 Officer Training Program was conducted on the Bloomsburg campus. As a result, a campus building was renamed Navy Hall. In 1957, a division of special education was instituted, and today, Navy Hall still houses that program.

Major expansion in facilities, faculty, and student body followed. Undergraduate full-time enrollment rose from 1,743 in 1960 to 6,184 undergraduates in 1992.

In 1960, the institution's name was changed to Bloomsburg State College. Authorization soon followed to grant baccalaureate degrees for liberal arts programs in humanities, social sciences, and natural sciences/mathematics. Graduate study, leading to the Master of Education, was inaugurated. In 1968, approval was received for the Master of Arts, in 1970 for the Master of Science, in 1976 for the Master of Business Administration, and in 1982 for the Master of Science in Nursing. A cooperative doctoral program in elementary education began in 1982.

Commonwealth legislation enacted on July 1, 1983, established the State System of Higher Education, and Bloomsburg State College became Bloomsburg University of Pennsylvania. Bloomsburg's president, Dr. James H. McCormick, became the system's interim chancellor and later its first permanent chancellor.

The following have served as presidents of Bloomsburg University:

Professor Henry Carver (1866-1871)

Charles B. Barkley (1871-1872)

The Rev. John Hewitt (1872-1873)

Dr. T. L. Griswold (1873-1877)

Dr. David J. Waller Jr. (1877-1890)

Dr. Judson P. Welsh (1890-1906)

Dr. David J. Waller Jr. (1906-1920)

Dr. Charles H. Fisher (1920-1923)

Dr. G. C. L. Reimer (1923-1927)

Dr. Francis B. Haas (1927-1939)

Dr. Harvey A. Andruss (1939-1969)

Dr. Robert J. Nossen (1969-1972)

Dr. Charles H. Carlson (1972-1973)

Dr. James H. McCormick (1973-1983)

Dr. Larry W. Jones (1983-1985)

Dr. Harry Ausprich (1985-1993)

Mission Statement

Bloomsburg University, as one of 14 institutions in the State System of Higher Education of the Commonwealth of Pennsylvania, embraces the general mission of the system to assure excellence in higher education at an affordable cost. The campus is accessible and attractive, located in the Town of Bloomsburg near the Susquehanna River and Interstate 80.

Bloomsburg is a coeducational institution serving students of diverse backgrounds from Pennsylvania, its surrounding states, and foreign countries. To its community and region, the university is an artistic and educational resource that serves a broad range of community needs in education, health care, business-related services, library resources, and cultural activities. It offers undergraduate programs as well as graduate programs in select areas of strength. There is an emphasis on a strong liberal arts preparation. The university is committed to a program of affirmative action in order to provide equal educational opportunity to all persons.

It is a goal of the university to integrate academic programs, cultural activities, and interpersonal relations to promote intellectual growth and social responsibility among students. The university seeks to extend the academic environment from the classroom into other student activities. It strives to foster openness in communication and involvement in decision making through a participatory governance structure. In this atmosphere, faculty, administration, staff, and students attain a genuine respect for one another, a concern for the enrichment of their experience, and the achievement of their common purpose. The university community is committed to the principles of personal and academic freedom within the framework of ethical responsibilities.

By emphasizing the assimilation, synthesis, and integration of information, it is a goal of the university to develop in its students the characteristics of mental resourcefulness and responsible self-expression as well as the abilities to think critically, clarify values, and demonstrate problem-solving skills. While maintaining programs for which Bloomsburg has been traditionally recognized, such as those in business and education, the university has identified strategic directions that include programs in health-related fields; programs that promote student-faculty interaction in teaching, learning, and research; programs that emphasize regional, national, international, and environmental concerns; and programs that incorporate the application of technology into instruction.

Degree Programs

Bloomsburg University offers 65 programs of study in the Colleges of Arts and Sciences, Business, and Professional Studies. Listed below are the degrees offered, the programs of study, the college that supports the program, and code numbers for courses in the subject area...

Anthropology Arts and Sciences 46 Art History Arts and Sciences 31 Art Studio Arts and Sciences 32 Biology Arts and Sciences 50 Chemistry Arts and Sciences 52 Economics Arts and Sciences 40 English Arts and Sciences 20 French Arts and Sciences 10 Geography Arts and Sciences 41 German Arts and Sciences 41 History Arts and Sciences 42 Humanities Arts and Sciences 38 Mass Communications Arts and Sciences 38 Mathematics Arts and Sciences 53 Music Arts and Sciences 53 Music Arts and Sciences 54 Physics Arts and Sciences 28 Physics Arts and Sciences 40 Political Economics Arts and Sciences 44 Psychology Arts and Sciences 44 Psychology Arts and Sciences 44 Psychology Arts and Sciences 45 Social Welfare Arts and Sciences 45 Sociology Arts and Sciences 45 Spanish Arts and Sciences 45 Arts and Sciences 45 Spanish Arts and Sciences 45
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Biology Arts and Sciences 50
• Marine Science Arts and Sciences 55
Business Administration Business —
•Accounting Business 91
• Business Economics Business 40
• Business Law Business 98
• Finance Business 96
• Management Business 93
• Management Information Business — Systems
•Marketing Business 97
Business Economics Arts and Sciences 40

	Chemistry	Arts and Sciences	52	
	Clinical Chemistry	Arts and Sciences	52	
	Computer and Information Science	Arts and Sciences	56	
	Computer and Information Science	Business	92	
	Earth and Space Science	Arts and Sciences	51	
	Geology	Arts and Sciences	51	
	Health Physics	Arts and Sciences	54	
	Interpreting	Professional Studies	74	
	Mathematics	Arts and Sciences	53	
	Medical Technology	Professional Studies	86	
	Natural Sciences	Arts and Sciences	59	
	and Mathematics			
	Physics	Arts and Sciences	54	
	Radiologic Technology	Professional Studies		
	Social Welfare	Arts and Sciences	45	
Bachelor of Science in Ed	ucation			
	Business Education	Business	90	
	Comprehensive Social Studies	Professional Studies	_	
	Early Childhood Education	Professional Studies	62	
	Elementary Education	Professional Studies	62	
	Secondary Education	Professional Studies	65	
	•Biology	Professional Studies	50	
	•Chemistry	Professional Studies	52	
	Communication	Professional Studies	25	
	•Earth and Space Science	Professional Studies	51	
	• English	Professional Studies	20	
	• French	Professional Studies	10	
	 Mathematics 	Professional Studies	53	
	• Physics	Professional Studies	54	
	Science Education	Professional Studies	_	
	•Spanish	Professional Studies	12	
	Special Education	Professional Studies	70	
	Speech Pathology and Audiology	Professional Studies	72	
Bachelor of Science in Nursing				
	Nursing	Professional Studies	82	
Bachelor of Science in Of	fice Administration			
	Office Administration	Business		
	Office Systems	Business	94	
Associate of Science in Health Services				
	Health Services	Professional Studies	_	

Colleges and Schools

College of Arts and Sciences

Hsien-Tung Liu Dean, College of Arts and Sciences

The College of Arts and Sciences includes curricula in 19 departments with the expressed intention of providing a quality liberal arts education. These curricula encourage broad exposure to knowledge, ideas, and intellectual process. The liberal arts philosophy places higher emphasis on cultural and scientific knowledge, and on general skills such as reading, writing, and critical analysis than on specific preparation for a particular career. Degree programs lead to a Bachelor of Science or a Bachelor of Arts, or both.

Bloomsburg was first authorized to offer the Bachelor of Arts in 1960 and the Bachelor of Science in 1963. Today, the college comprises 36 percent of the students and 64 percent of the faculty at Bloomsburg University. All General Education courses — a certain number of these courses are required of all students seeking a baccalaureate degree — are offered through Arts and Sciences.

The Bachelor of Arts offers the student the opportunity for a liberal education through study in the humanities, the social sciences, and the natural sciences and mathematics. There are two patterns for the Bachelor of Arts, a pattern of emphasis within a broad field and the more common major in one of the academic disciplines. The Bachelor of Science provides the opportunity for a liberal education together with a specialization in a number of fields. Liberal arts graduates are prepared for a wide range of future goals. Students who are undeclared or undecided about an academic major are encouraged to enroll in Arts and Sciences curricula. There are interdisciplinary studies or broad area programs.

Degree Programs

All students must complete the General Education requirements described in the General Education Requirements section beginning on page 88. Each student selects a major and fulfills the major requirements as stated at the beginning of the course descriptions for each of the 19 disciplines in Arts and Sciences. Several programs have more than one option for fulfilling the major requirements.

Academic Minors

In addition to achieving an in-depth understanding of an academic discipline by completing the requirements of a major, students may gain knowledge in a second area by completing the minor requirements of that discipline. Each academic minor consists of a minimum of 18 semester hours of courses. The following disciplines offer academic minors: anthropology, art studio, art history, biology, computer science, economics, English, French, geography, history, mathematics, music, philosophy, physics, political science, psychology, sociology, and Spanish. Consult the area of interest in the catalog for course requirements.

Arts and Sciences Honors Program The College of Arts and Sciences provides superior students an opportunity to participate in an honors program during their junior and senior years. A student selected for this program participates in an honors seminar in the humanities, natural sciences and mathematics or social sciences, and prepares an honors thesis. The thesis is developed under the direction of a faculty member from the academic department that sponsors the student. Eligibility is limited to students with a minimum QPA of 3.5 for coursework in the freshman and sophomore years. Students interested in this program should contact their faculty adviser.

Preprofessional and Career Advisement Preprofessional and Career Advisement Committees offer special supplementary advisement to students. Members of these committees help students learn about admission requirements of professional schools or careers and select college courses in harmony with these requirements.

Students interested in preprofessional or career advising should indicate this interest on the admission application to the university so that appropriate advisers may be notified.

As a rule, professional schools for dentistry, medicine, optometry, pharmacy, podiatry, and veterinary medicine do not specify an undergraduate major, but they do specify minimum essential courses, especially in the sciences and mathematics. These minimum requirements usually include courses in general chemistry, organic chemistry, mathematics, biology, and physics. High standards of undergraduate scholarship must be achieved if a student wishes to compete for admission to a professional school. More than 85 percent of Bloomsburg University's graduates who apply to medical and dental schools are accepted. Students anticipating these careers should contact the Department of Biological and Allied Health Sciences which provides faculty coordinators for preprofessional advisement.

Pre-Law

Students who intend to enter the legal profession need to be cognizant of the variations in entrance requirements for law schools. The Pre-Law Advisory Committee counsels students on course selection. Most law schools will consider applications from students with diverse majors, emphasizing the value of a thoroughly cultivated mind rather than a specific body of knowledge. Students interested in a law career or pre-law advisement should contact Professor George Agbango in the Department of Political Science in the College of Arts and Sciences or Professor Bruce Rockwood in the Department of Finance and Business Law in the College of Business.

Career Concentrations The College of Arts and Sciences provides multi-disciplinary opportunities for students to pursue a specialization in several career-oriented programs. Through a series of courses, usually in process and content areas, a student gains the foundation knowledge for later placement in vocational settings. The career concentration is intended as a specialty area in addition to the liberal arts major. These concentrations are not regarded as substitutes for an academic major, though course overlap exists for many programs. Career concentrations exist in 10 areas. Students may contact the following faculty members for details.

Audio Recording Techniques

Stephen C. Wallace, Department of Music

Community Recreation Leader

William J. Sproule, Department of Health, Physical Education, and Athletics

Community Services

Charles Laudermilch, Department of Sociology and Social Welfare Environmental Planning

Brian A. Johnson, Department of Geography and Earth Science Family, Children, and Youth

Dale L. Sultzbaugh, Department of Sociology and Social Welfare Gerontology

Chang Shub Roh, Department of Sociology and Social Welfare International Business

Francis J. Gallagher, Department of Marketing and Management Organizational Relations

Jim H. Huber, Department of Sociology and Social Welfare

Outdoor Leadership and Management

Jim H. Dalton Jr., Department of Psychology

Public Administration

George Agbango, Department of Political Science

Independent Study Independent study provides an opportunity for the advanced student to pursue in-depth individualized instruction in a topic of special value or interest to the student. A limited number of independent study offerings are available each semester. Students interested in applying for independent study should develop a written proposal with their faculty sponsor. The proposed number of semester hours should be indicated in the proposal. The independent study proposal, along with the name of the faculty sponsor, is submitted to the appropriate department for recommendation, then to the dean for final approval.

Academic Departments The College of Arts and Sciences is comprised of 19 academic departments. Chairpersons are selected on a three-year cycle and departments with more than 15 faculty members also name an assistant chairperson. During summer sessions, a faculty member is designated as the summer chair for each area. While most departments enjoy full-time secretarial support, some departments share clerical staff and rely on part-time and student help. The academic departments in arts and sciences include:

Department of Anthropology
Department of Art
Department of Biological and
Allied Health Sciences
Department of Chemistry
Department of Communication
Studies
Department of Economics
Department of English
Department of Geography
and Earth Science
Department of History
Department of Health, Physical
Education, and Athletics

Department of Languages and
Cultures
Department of Mass Communications
Department of Mathematics
and Computer Science
Department of Music
Department of Philosophy
Department of Physics
Department of Political Science
Department of Psychology
Department of Sociology and

Social Welfare

College of Business

John J. Olivo Jr. Interim Dean, College of Business

The College of Business offers undergraduate and graduate programs in business administration and business education as well as other specialized courses in the business field. The College plans to pursue accreditation by the American Assembly of Collegiate Schools of Business.

Teaching is the primary objective of the College, which is committed to maintaining a global, ethical, and culturally diverse educational environment. Critical thinking and assimilation, integration, and synthesis of information by students are encouraged. Information technology plays a major role in instruction. Research and other scholarly activities are highly valued. Members of the faculty serve as consultants and educators in both the public and private sectors.

Students enrolled in other colleges within the university who wish to transfer to a business curriculum must have completed a minimum of 15 semester hours at Bloomsburg to be eligible for consideration. Admission to the College of Business is selective.

Technology Emphasis

In recognition of the spiraling use of technology in the business profession, the College is committed to the incorporation of technology in the curriculum. Each full-time faculty member's office has an appropriate microcomputer. Two common access microcomputer laboratories are in operation in Sutliff Hall and are subject to recurring update and renovation.

A local area network interconnects faculty and administrative offices, classrooms, and laboratories and ties in with other computer facilities on campus. Through the State System of Higher Education Network, faculty, students and staff have access to the internet network linking them to local, regional, national, and international networks.

Uniform software standards (word processing, database, and spreadsheets), multi-media, and decision support software are maintained.

Business Honors Program

The College of Business provides superior students an opportunity to participate in an honors program during their junior and senior years. Eligibility is limited to students with a minimum QPA of 3.40 for coursework in the freshman and sophomore years in their business courses (core, major, and business electives) or a 3.50 QPA overall if their QPA in their business courses is between 3.25 and 3.40.

Career Concentration

The College of Business offers a career concentration in International Business. This concentration provides students with the necessary skills and knowledge to operate in a global economy. The concentration includes a core of international business administration courses, accompanied by interdisciplinary courses with an international emphasis. A language proficiency is a requirement of the concentration.

Academic Departments

The College of Business is comprised of six academic departments:

Department of Accounting

Department of Business Education and Office Administration

Department of Computer and Information Systems

Department of Finance and Business Law

Department of Management
Department of Marketing

Programs and Specializations

Business Administration

Bachelor of Science in Business Administration

Specializations in: Accounting, Business Economics, Finance, Management Information Systems, Management and Marketing.

Business Education

Bachelor of Science in Education

Certification in: Accounting, Data Processing, Marketing and OfficeTechnologies (Required for all majors)

Computer and Information Systems

Bachelor of Science in Computer and Information Science

Office Systems

Bachelor of Science in Office Administration

Institute for Comparative and International Management Studies The Institute for Comparative and International Management Studies (ICIMS) has been established at Bloomsburg to fulfill the university's missions and goals through sponsorship and initiation of activities aimed at increased understanding of cross-cultural and comparative management issues. The institute initiates, coordinates, and administers joint degree programs with overseas universities in business administration; sponsors management research projects within the United States and at overseas sites; provides consulting services and workshops in all areas of management; and develops and administers quality executive development and training programs as required by a particular country.

ICIMS, with offices in Centennial Gymnasium and Sutliff Hall, seeks to provide educational and internship opportunities in many European and Asian countries, such as the United Kingdom, France, the Netherlands, Taiwan, and China.

In addition to exchange programs, ICIMS coordinates a Master in Business Administration program in Taiwan and Southeast Asia countries, hosts international conferences, and serves as a regional resource center for area businesses. For more information, contact the institute's office at 389-4913/4770.

International Exchange Program Students in the College of Business have the opportunity to study overseas in Europe. There are exchange sites at business schools in the Netherlands and England and additional sites in other countries will be opening. Eligible students must have junior standing and a 2.5 QPA. Classes are taught in English. Spending a semester abroad provides an opportunity to learn more about the global economy and different cultures.

College of Professional Studies

Howard K. Macauley Dean, College of Professional Studies

School of Education

Programs are offered for preparation of teachers for early childhood centers and elementary schools, academic subjects in secondary schools, special education, communication disorders, and business education.

The teacher education program at Bloomsburg University is committed to improving the field of education through a comprehensive program which recognizes its unique contribution to society, both as a reflection of that society and as an agent for the improvement of society. To meet this obligation, the programs draw upon the knowledge and understanding of general as well as professional education. It strives for a blend in preparing a person to fulfill a role in society as an informed, inquiring, and skilled professional.

More specifically, the teacher education programs provide:

- The basic academic preparation for persons to acquire a depth and breadth of knowledge in both general and specialized studies;
- Basic training to insure mastery of the specific skills necessary for competent functioning as a professional;
- An opportunity for further enrichment within the individual's area of professional competence through a regular program of speakers, seminars, and related activities;
- Human and physical resources necessary to assist in the educational development and growth of the community served by the university; and
- The means for advancement of knowledge through research in specific areas of education.

Bloomsburg University is committed to the preparation of teachers of the highest quality. In pursuit of that goal, the School of Education subscribes to and endorses the philosophic statement as developed by the American Association of Colleges for Teacher Education as a guide to the development and operation of all of its teacher education programs.

Generic Role Competencies The teacher education faculty believe that for successful teaching to occur, the teacher must perform effectively in a number of different roles. The teacher also must command functional knowledge in appropriate content area(s) as well as in cognate disciplines with direct or related significance for the act of teaching.

Six generic role competencies and 15 related cognate strands have been identified as central to the preparation of candidates in teacher education programs at Bloomsburg University.

Role Competencies

Assessing and Diagnosing Instructing Managing Documenting and Evaluating Communicating and Interacting Planning

Cognate Strands

Curriculum Theory
Educational Anthropology
Educational History
Educational Law
Educational Measurement
and Evaluation
Educational Organization
and Administration
Educational Philosophy
Educational Psychology

Educational Research
Educational Sociology
Educational Technology
Group Dynamics
Human Development and
Exceptionality
Instructional Theory
Knowledge in one or more
content areas

Accreditation of Teacher Education

Bloomsburg is accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Council on Education of the Deaf. The teacher education programs outlined in this catalog have been approved for teacher certification by the Pennsylvania Department of Education. The Speech, Hearing, and Language Clinic is certified by the Professional Services Board of the American Speech, Hearing, and Language Association.

Teacher Certification

The completion of one of the approved programs in teacher education is prerequisite to institutional recommendation for a teacher's certificate. Upon recommendation, an initial certificate is granted by the Commonwealth of Pennsylvania. The appeal procedure for considering the problems of certification candidates can be found in the section of the catalog dealing with academic grievances.

As of June 1987, all individuals seeking teacher certification in Pennsylvania are required to pass state mandated tests at levels determined by the Secretary of Education. The tests assess basic skills, general knowledge, knowledge of subjects in which certification is sought, and professional knowledge.

An initial certificate is designated as Instructional Level I. It is valid for six years. A Level I certificate is not subject to renewal beyond a total of six years after the individual begins teaching. A permanent Level II certificate is issued upon completion of three years of successful teaching and experience under a Level I certificate and the completion of a minimum of 24 semester hours of postbaccalaureate coursework.

Programs offered for Level I certification are:

Early Childhood Education (Preschool through Grade 3)
Elementary Education (Kindergarten through Grade 6)
Business Education (accounting, data processing, marketing)
Secondary Education (biology, chemistry, communication,
earth/space science, English, French, Spanish, general science, mathematics, physics, comprehensive social studies

Special Education (mentally and/or physically handicapped)
Communication Disorders (speech correction or hearing impaired)

Interstate Certificate Agreements

Pennsylvania cooperates in several interstate agreements that stipulate that holders of Pennsylvania Instructional Certificates are eligible, subject to special provisions, for reciprocal credentials in other states. Participating states currently include:

Alabama	Indiana	Rhode Island
California	Maine	South Carolina
District of	Massachusetts	Tennessee
Columbia	Montana	Utah
Florida	New Hampshire	Vermont
Georgia	New York	Virginia
Hawaii	North Carolina	Washington

Other states may be willing to grant reciprocity. Graduates of Pennsylvania-approved programs are advised to contact the teacher certification office in the state in which they wish to obtain certification for application forms and instructions. The names and addresses of the appropriate officials should be available in most college placement offices.

Admission to Teacher Education

Students who wish to pursue teacher education are initially admitted to the College of Professional Studies with an intended major and schedule courses in harmony with the requirements of the program they wish to follow. In due course, they apply for admission to teacher education through the department in which their intended major resides. Admission to teacher education is governed by University Policy No. 3810, with amendments and emendations as necessary.

Students should submit application to candidacy no later than completion of 65 credits. Transfer students should submit application to candidacy after completion of the first semester at Bloomsburg University, but not before the second semester of their sophomore year. Enrollment in upper division teacher education coursework (300 and 400 level courses) is contingent upon admission to the teacher education program.

For admission, students must:

- 1. Possess an overall cumulative grade point average of 2.5 or higher.
- 2. Successfully complete a five-to-10 day noncredit field experience in the freshman year or at the earliest possible time in the case of transfer or non-traditional students.
- 3. Submit two recommendations from teacher education faculty.
- 4. Successfully complete (grade of C or better)
 - a. Two English composition courses or Honors Composition
 - b. Public speaking or interpersonal communication course.
- 5. Complete the following:
 - a. Speech screening
 - b. Hearing screening

c. Tuberculosis testing

(Speech and hearing screening tests can be completed at no cost to the student in the Speech, Language and Hearing Clinic located in Navy Hall. Tuberculosis testing is available each semester at a minimal cost to students.)

6. Submit a resume that includes:

a. personal interests

b. special skills

 experience with children, youth, or adults that would be relevant for a preservice teacher

7. Submit the completed admission packet to the faculty adviser. The faculty adviser will review the packet, interview the student, and submit a recommendation to the department chairperson indicating that the student be admitted or not be admitted to the program.

Admission to teacher education programs permits students to schedule upper division teacher education courses (300 and 400 level).

Note: Possession of a professional liability insurance policy is highly recommended.

Retention in Teacher Education Admission to teacher education is equivalent to candidacy for the Bachelor of Science in Education. This candidacy can be revoked if the following requirements, as stated in University Policy No. 3810 and amendments, are not met.

- Completion of all professional education courses with a grade of C or better.
- 2. Maintenance of an overall cumulative grade point average of 2.5 or better and an average of 2.5 or better in the area of academic specialization or be placed on probation one semester. If grade point average falls below 2.5 overall, or below a 2.5 in the area of academic specialization in a secondary education program beyond one semester then dismissal from the program, but not the department, occurs. Students will remain in the department for one additional semester after dismissal from the program so that appropriate advisement is available to them.
- Continuation of field and clinical experiences as outlined in the curriculum.
- Continuation of professional liability insurance is recommended.
- Students are required to maintain contact with their adviser(s) throughout the program of study.
- 6. Demonstration of competency in student teaching supported by:
 - a. Recommendations from and competency evaluations by cooperating teacher(s) and university supervisor(s); and
 - b. A grade of C or better.

Graduation from Teacher Education Programs In order to graduate from a teacher education program, a candidate must have met the requirements as stated in University Policy No. 3810 and satisfied the following requirements:

- 1. Completion of the prescribed teacher education curricula with an overall cumulative grade point average of 2.5 or better and a 2.5 average in the area of specialization.
- 2. Demonstration of competency in student teaching.

In order to receive Pennsylvania Department of Education Instructional Level I certification, candidates must successfully complete (cut off scores to be established by the Secretary of Education) the National Teachers Examination (NTE):

- a. NTE Core Battery Tests
 General Knowledge
 Communication Skills
 Professional Knowledge
- b. NTE Specialty Area Tests

Field Experiences

Students in teacher education are required to engage in field experiences where they work in and observe the educational process in the schools. These experiences help students decide whether or not they wish to follow careers in teaching. Participants are exposed to many aspects of teaching and to the operation of the schools, thus providing experience that should increase the relevancy of coursework in professional education. Field experiences also are a part of courses in professional education. These include field trips, observations, micro-teaching, and assisting teachers in school settings.

Eligibility for Student Teaching

Eligibility for student teaching will be determined at the scheduling period prior to the semester of student teaching. Student teaching eligibility is contingent upon:

- 1. Completion of the admission to candidacy process.
- 2. Possession of an overall cumulative grade point average of 2.5 or better and an average of 2.5 or better in the area of academic specialization.
- 3. A grade of C or better in all professional education and specialty courses.
- 4. Completion of appropriate methods courses which will be determined by each teacher education program.
- 5. Continuation of a professional liability insurance policy or presentation of evidence of membership in a professional education organization providing professional liability insurance.

Student Teaching Teacher education culminates in student teaching. Having satisfied the prerequisites for student teaching courses, undergraduates are assigned to positions in public or private schools for the first or second semester of their senior year. They are placed based on the availability of qualified cooperating teachers in their subject area and the willingness of schools with programs approved by the university. Students should be prepared to accept assignments in any of the student teaching centers.

A student teaching semester is divided into two equal periods so that

students may teach at two grade levels and frequently in two socioeconomic environments. Because of constantly changing educational and socioeconomic circumstances, flexibility of format is maintained in the student teaching program.

Student Teaching Centers

Student teaching centers and cooperating teachers are drawn from urban, suburban, and rural areas. Students in early childhood, elementary and secondary education may be assigned to Central Pennsylvania, to suburban Philadelphia, or to inner-city locations. Business education student teaching centers are located in the Bloomsburg, Allentown, and Williamsport areas.

Students may arrange their student teaching assignment in one of the international centers with which Bloomsburg cooperates, for example, in Liverpool or London, England. Information about this program may be obtained from department chairpersons.

Cooperating Teachers and Clinicians

Cooperating teachers and clinicians are selected by faculty in teacher education based on criteria set forth by the Pennsylvania Department of Education. These parameters are:

- 1. At least three years of teaching experience, one year of which has been in the district to which the teacher candidate is assigned;
- 2. A teaching assignment appropriate to the subject competency of the teacher candidate;
- 3. Completion of a program of preparation on observation and evaluation skills developed by the college or university for the cooperating teacher.

Training at the university is achieved through the following means:

- 1. Individualized training;
- 2. Use of student teaching and clinical manual;
- 3. Providing research and reading materials to cooperating teachers and clinicians on a regular basis;
- Consortiums (cooperating teachers/clinicians are invited to a yearly meeting);
- 5. Graduate course offerings.

School of Health Sciences M. Christine Alichnie, assistant dean

The School of Health Sciences, one of the two schools organized under the College of Professional Studies, offers health science programs at both the undergraduate and graduate levels in adult health, allied health, communication disorders, and nursing. Administrative responsibilities for the programs in adult health and communication disorders are assumed by the Department of Health, Physical Education, and Athletics and Department of Communication Disorders and Special Education, respectively. Information regarding the curricula for these programs is presented in this catalog under their subject titles.

Allied Health Sciences James E. Cole, coordinator

The allied health sciences encompass those health areas in which individuals support, aid, and increase the efficiency and effectiveness of other health care professionals by becoming a contributing member of the health care team. The curricula offered at Bloomsburg include medical technology, radiological technology, health services associate, dental hygiene, pre-occupational therapy, pre-physical therapy, and pre-cytotechnology. Completion of these programs involves clinical education and experience — usually away from the campus. The university offers degrees for the first four curricula, namely a bachelor's degree for medical technologists and radiological technologists, an associate degree in health services, and a Bachelor of Science in Education for dental hygienists. Radiological technology and the health services associate are advanced entry programs.

An affiliation with Thomas Jefferson University's College of Allied Health Sciences in Philadelphia facilitates transfer of students from the preparatory curricula of physical therapy, occupational therapy, and cytotechnology into baccalaureate programs there. Bloomsburg University is an active participant in the P.A.C.E. program sponsored by Thomas Jefferson University.

Nursing Program M. Christine Alichnie, chairperson

Degree and Licensure The nursing program at Bloomsburg University provides learning opportunities in nursing and related disciplines which enable students to attain attitudes, knowledge, and skills essential to the role development of a beginning practitioner. The baccalaureate program culminates in the Bachelor of Science in Nursing (BSN) and qualifies its graduates to sit for the licensure examination administered by state boards of nursing which establishes them as registered nurses. The nursing program at Bloomsburg is not only a conduit for further education but also for lifelong learning activities.

In accordance with the Professional Nursing Law (P.L. 317, No. 69, Jan. 1, 1986) a felonious act prohibits a person from obtaining licensure in Pennsylvania. In compliance with this legislation, the following guidelines are enforced by The Pennsylvania State Board of Nursing.

A license or certificate shall not be issued to an applicant who has been:

- 1. Convicted* of a felonious act prohibited by the act of April 14, 1972, (P.L. 233, No. 64) known as *The Controlled Substance*, *Drug*, *Device*, *and Cosmetic Act*;
- Convicted* of a felony relating to a controlled substance by a U.S. court of law or by any other state, territory or country unless:
 - a. At least 10 years have elapsed since the date of conviction;
 - The applicant satisfactorily demonstrates to the board significant progress in personal rehabilitation since the conviction such that licensure should not create a substantial risk of further violations;
 - The applicant otherwise satisfies the qualifications contained in this act.

*Convicted includes a judgment, an admission of guilt, or a plea of nolo contendere. A person convicted of any felonious act may be prohibited from licensure by the Pennsylvania State Board of Nursing at any time.

Accreditation

The Bachelor of Science in Nursing (BSN) program is accredited by the National League for Nursing and approved by the Pennsylvania State Board of Nursing.

Application Categories

Applications to the nursing program fall into two categories: freshman and transfers.

Freshman—A secondary school student or secondary school graduate without any postsecondary experience (formal education beyond secondary school).

Transfer Candidate—An applicant who was previously enrolled at Bloomsburg University or who was enrolled in a postsecondary educational program.

Admission Requirements and Process

Freshmen Candidates

Secondary school students should submit an application to the university's Office of Admissions early in their senior year. (See section on Admissions, Financial Aid, Fees on page 30.) Secondary school graduates who have had no formal education beyond secondary school, must apply early in November to be considered for the spring semester or early in February to be considered for admission in the fall semester.

The following guidelines are used to evaluate freshman candidates for admission to the Bachelor of Science in Nursing program:

- a. 18 academic units from secondary school. These units must include a minimum of 4 units of English, 3 units of social studies, 2 units of mathematics (1 of which is algebra), and 2 units of science with a related laboratory or the equivalent, plus 7 other academic units in grades 9 through 12.
- b. B average or above in secondary school.

- c. A or B in secondary school chemistry.
- d. 950 SATs with a minimum of 450 in each portion.
- e. Rank in top 25 percent of secondary school class.

It is important that the candidate indicate nursing as the major. The Office of Admissions uses these guidelines in accepting freshman students directly into the nursing program. Nursing faculty consult with the Office of Admissions as necessary regarding candidates for admission. An interview is not required, but the Department of Nursing faculty are available to talk with prospective candidates.

Transfer Candidates

External Transfers

- a. Candidates with college credits from institutions other than Bloomsburg University must apply directly to the Office of Admissions. (See section on Admissions, Financial Aid, Fees on page 30. The Office of Admissions reviews the application and evaluates the credits from the transcripts submitted and if the candidate meets the requirements for transfer into the university, the application is forwarded to the Department of Nursing*. The department chairperson and the Student Admission, Progression, and Retention (SAPR) Committee review the application for admission to the baccalaureate nursing program. The minimum requirements beyond those for admission to the university are a QPA of 2.5 and evidence of a minimum grade of C in several prerequisite courses. Grades attained in prerequisite science courses outweigh the overall QPA. The chairperson of the Department of Nursing makes the decision relative to admission based on the committee's recommendation and available positions. Notification of acceptance is forwarded by the Admissions Office.
- b. Candidates who are registered nurses must apply directly to the Office of Admissions. Official transcripts from all previously attended postsecondary educational institutions including those colleges affiliated with the hospital schools must be included with the application. To gain admission to the nursing program, the candidate must be a graduate of a state-approved associate degree or diploma nursing program. The Office of Admissions reviews the application and evaluates any credits from the official transcripts submitted. If a candidate meets the admission guidelines for a registered nurse, his/her application is forwarded to the Department of Nursing*. The minimum requirements and process from this point is the same as for other external transfer students.
- c. Individuals seeking a second bachelor's degree are considered for admission to the nursing program by the Nursing Department's chairperson. An appointment with the chairperson is encouraged prior to submitting an application to the Office of Admissions for review. The guidelines for freshman admission to the nursing major are followed for such applicants. (See the section on Admission, Financial Aid, Fees on page 30.)

* The Student Admission, Progression, and Retention (SAPR) Committee generally reviews transfer applications biannually. Applications must be completed and sent to the Office of Admissions by September 15 for spring admission or by February 15 for fall admission. Only completed files are forwarded to the department on these dates.

Internal Transfers

Students majoring in other academic disciplines at the university who wish to transfer into the nursing program must apply directly to the Department of Nursing's chairperson. They must meet the guidelines for freshman candidate admission as well as provide evidence of a QPA of 2.5. The candidate seeking transfer sends a letter to the chairperson of the Department of Nursing requesting admission into the nursing program. Upon receipt of the letter, the candidate is sent a "Student's Academic File Transfer Request" form which allows the candidate to obtain his/her academic file from the current department and deliver it to the Nursing Department. The record will then be reviewed by the Student Admission, Progression, and Retention (SAPR) Committee. From this point, the process is the same as for external transfers; however, notification of acceptance of internal transfer is sent from the chairperson of the Department of Nursing.

Academic Good Standing Policy Students in the baccalaureate nursing program must abide by both the university's academic good standing and retention policies and the academic good standing policy of the Department of Nursing. To progress and be retained in the nursing program, the student must:

- 1. Attain a grade of C or better in:
 - a. Prerequisite natural science courses:
 Anatomy and Physiology I, Anatomy and Physiology II,
 Introductory Chemistry, Introductory Chemistry Laboratory,
 - Physiological Chemistry, and Introductory Microbiology b. Prerequisite social sciences courses: General Psychology, Life Span Psychology, and Principles of Sociology
 - c. All Code 82 nursing courses
- 2. Obtain a cumulative QPA of 2.50 (after 32 semester hours) to enroll in nursing courses in the sophomore year.

A student who does not meet the identified requirements for departmental academic good standing is required to satisfy the identified deficiencies by repeating the course before further progress in the nursing program can be attempted.

A student may repeat nursing courses only once. The university policy on the repetition of academic courses applies to the Department of Nursing.

The department reserves the right and the responsibility to develop procedural guidelines for the implementation of this academic good standing policy.

Recommendations concerning academic progression and retention are made to the Department of Nursing chairperson by the Student Admission, Progression, and Retention Committee. Based on these

recommendations, students who do not attain academic good standing after one academic period on probation will be required to take a departmental leave of absence.

Departmental Academic Probation

Students who fail to meet the requirements of the policy for departmental academic good standing are evaluated by the Committee on Student Admission, Progression, and Retention and are immediately placed on departmental academic probation.

The department chairperson is responsible for notifying students who have been placed on probationary status.

Students must satisfy any identified academic deficiencies by repeating the course(s) before they can attempt any further progress in the nursing program.

Nursing courses may only be repeated once. University policy that pertains to the repetition of academic courses applies to the Department of Nursing.

A student who does not attain academic good standing after one academic period on probation will be required to take a departmental academic leave of absence.

Departmental Academic Leave of Absence

A student who does not maintain departmental good standing requirements after one semester on probation or a total of three semesters on probation is automatically required to take a leave of absence from the department.

The department chairperson notifies students of such actions.

A student on a departmental academic leave of absence is ineligible to attend any course offered by the Department of Nursing. When on departmental academic leave, a position will be guaranteed for the student for no more than one calendar year. If at the end of one calendar year the student is not ready to return from departmental academic leave of absence, that student will be considered to be withdrawn from the program.

Health Policy

Based on the requirements of the Pennsylvania State Board of Nursing and contractual agreements with agencies that provide clinical practice sites, the Department of Nursing requires students to have a yearly physical examination, specific diagnostic tests, and immunizations. Dental and eye examinations also are required upon admission. The University Student Health Center is responsible for student medical records. These records serve as verification of satisfactory health which is required for progression in the baccalaureate nursing program.

Nursing faculty reserves the right to counsel, suspend or dismiss students who, in their judgment, do not satisfy the requirements of scholarship, health, and personal suitability for nursing.

School of Graduate Studies

Peter J. Kasvinsky Assistant Vice President for Graduate Studies and Research

Bloomsburg University offers 18 master's programs in the arts, business, science, and education through its School of Graduate Studies, as well as a joint doctoral program in education in cooperation with Indiana University of Pennsylvania, and 11 supervisory certificate programs.

Graduate classes taught during the academic year are usually scheduled in late afternoons, evenings, and on Saturdays in order to provide an opportunity for teachers and individuals engaged in other full-time occupations to further their education. Graduate courses also are offered for full-time students in the summer sessions.

Master's programs are offered in the following areas:

Master of Arts

- Art Studio
- Art History
- Communication Studies

Master of Business Administration

• Business Administration

Master of Education

- Biology
- Business Education
- Curriculum and Instruction
- Elementary Education
- Reading

Master of Science

- Audiology
- Biology
- Early Childhood Education
- Education of the Hearing Impaired
- Exercise Science and Adult Fitness
- Instructional Technology
- Nursing
- Special Education (Behavior disorders, learning disabilities, mental retardation, gifted/talented, exceptional persons)
- Speech Pathology

Supervisory Certificates are offered in the following areas: Communication, Curriculum and Instruction, Early Childhood Education, Elementary Education, Foreign Language, Mathematics, Reading, School Health Services, Science, Social Studies, Special Education.

Graduate Studies Catalog The Graduate Studies Catalog, with comprehensive descriptions of courses, degree programs, university policies, faculty, and regulations is available upon request. Write to the Assistant Vice President for Graduate Studies and Research, 109 Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815.

School of Extended Programs

G. Michael Vavrek Dean, School of Extended Programs

The School of Extended Programs, located at the Magee Center, 700 West Main Street, Bloomsburg, administers and coordinates many university-wide efforts to provide lifelong education for citizens of the region. The school's major components include: Center for Regional Development, cooperative education and academic internships, Magee Center, noncredit programs and services, nondegree and adult programs and service, Air Force and Army Reserve Officers Training Corps: Air Force and Army, and summer session.

Center for Regional Development The School of Extended Programs is the university's focal point for public service. The Center for Regional Development coordinates many of the university's outreach programs and services for the benefit of communities throughout northcentral Pennsylvania.

A directory of the university's public services to business, industry, governmental agencies, non-profit groups, older adults, children, volunteers and other groups is available from the school.

Cooperative Education and Academic Internships Participation in the university's internship and cooperative education program can add an important dimension to a student's educational experience and future career plans. Students apply the theory learned in the classroom to situations occurring on the job in the workplace.

Because academic departments determine the credit and grade values for an internship or co-op experience, students must comply with any criteria required by their majors. Careful planning with the department's internship or co-op coordinator enables the student to schedule these experiences to compliment their academic program.

Cooperative education integrates classroom study with paid, planned, and supervised work experiences in the public and private sectors. Co-op students spend at least one semester and a summer working full time off-campus in a job usually related to their course of study at the university.

Internships are reserved for upperclassmen who customarily spend the summer before or a semester during the senior year involved in a project-oriented work assignment either on or off campus. While some interns are paid, others may be volunteer.

For information contact Room 15, Ben Franklin Hall, (717) 389-4678.

Magee Center

The Magee Center was donated to the university by the Trustees of The Magee Foundation in 1988 as a public service center. Located at 700 West Main St., 1.5 miles west of the lower campus, the center offers executive-style meeting facilities for university and community groups. The building also serves as the headquarters for the School of Extended Programs which is responsible for the management of the center's

meeting space and support services. For information on reserving these facilities, call (717) 389-4420.

Noncredit Programs and Services Noncredit mini-courses provide opportunities for individuals to gain specialized knowledge and skills for career purposes or to pursue cultural, recreational, and special interests through short-term experiences without academic credit.

These courses reflect expressed community needs. A nominal course fee is charged. Individuals who wish to enroll in the mini-course program are not required to file credentials; in most cases the only formality is that of registration with the School of Extended Programs for the course(s) desired. The catalog is available each semester.

The university serves the educational requirements of professional, educational, governmental, business, and other community groups by offering customized workshops and conference facilities, including satellite teleconferences. In the summer, the university can accommodate conference groups overnight. Scheduling and hosting conference groups rests with the School of Extended Programs. Organizations may contact the school's office at (717) 389-4420.

Nondegree and Adult Programs and Services Based on the assumption that learning should be a lifelong process, the nondegree credit program provides for enrollment by an individual in regular undergraduate credit courses without formal admission to the university as a degree candidate. Individuals are invited to use this program as an opportunity to review skills, acquire new knowledge, and pursue cultural and intellectual interests. Day and evening classes are held on the Bloomsburg campus and at off-campus locations.

Semester hours earned in courses taken as a nondegree student may later apply toward a degree program provided the course is deemed appropriate. Courses taken by nondegree students also can be used for a variety of designated certificate programs and to meet undergraduate deficiencies for graduate study. (For regulations that pertain to a nondegree status, Category 510, in the School of Graduate Studies, see the Graduate Studies Catalog.)

Advisement for nondegree students is provided through the Office of Nondegree and Adult Advisement, Ben Franklin Hall, Room 12. Students can obtain information related to course selection, alternative ways to earn college credits, and financial aid. Adults without SAT scores can get advice on taking the 15 required semester hours to transfer into a degree program. Students enrolling in a Category 8 certificate program must have the endorsement of their nondegree adviser. Students pursing teacher certification are advised through the College of Professional Studies.

Admission to the nondegree credit program is open to all secondary school graduates or persons holding a General Equivalency Diploma (GED). No standardized tests are required for admission.

Undergraduate nondegree students fall into eight categories. All categories require the submission of a nondegree admission application and a course selection form which can be obtained from the Office of Nondegree and Adult Advisement or the Admissions Office. In addi-

tion, applicants must submit any academic credentials that are applicable to the category for which they are applying. Admission forms and academic credentials for Categories 3 and 6 must be submitted to the Office of Admissions; students in all other categories submit their paperwork to the Office of Nondegree and Adult Advisement. The academic credentials requirement is listed after each specific nondegree category as follows:

- Category 1: Adults who desire to enroll on a part-time basis. (Students enrolling to qualify for teacher certification, refer to Category 6.) Credential requirement: Completed application for nondegree admission.
- Category 2: Students enrolled at an institution of higher education who desire to complete coursework at Bloomsburg University for purposes of transfer to their home institutions. Credential requirement: Completed application for nondegree admission. Students in this category should make certain that coursework pursued at Bloomsburg University satisfies course requirements at their home institution.
- Category 3: Students approaching their final year of secondary school who wish to enroll at Bloomsburg University in conjunction with their last year of secondary school work or who are enrolled in a gifted program. Credential requirement: Secondary school transcript, junior year SAT scores, letters of recommendation from a secondary school counselor and two secondary school instructors in the academic area of intended pursuit.

Note: All credentials and a nondegree admission application must be submitted to the Office of Admissions.

- Category 4: Students with academic deficiencies who are seeking a graduate degree at Bloomsburg University. Credential requirement: Completed application for nondegree admission.
- Category 5: Students with academic deficiencies who wish to pursue a program of academic recovery to qualify for undergraduate admission. Credential requirement: Completed application for nondegree admission.
- Category 6: Students with a baccalaureate degree interested in completing the requirements for Level I or Level II teacher certification. Credential Requirement: Official transcript from the institution that granted a baccalaureate degree. (See an adviser in the College of Professional Studies for help with course selection.)

Note: All credentials and a nondegree admission application must be submitted to the Office of Admissions.

Category 7: Senior citizens (persons over 60 years of age) who are retired, legal residents of the United States, living in Pennsylvania. Students in this category may be admitted to a class on a seat available basis only. Credential requirement: Proof of age, retirement, and U.S. residency, and completed application for nondegree admission.

Category 8: Students who are seeking a certificate program in any of the seven designated areas. Credential requirement: Official secondary school transcript required before student can schedule.

For assistance with nondegree programs, call (717) 389-4003.

Experiential Learning

In an effort to provide for those who have in the course of their life experience obtained knowledge and skills applicable to a college experience, the university provides the opportunity for experiential learning assessment. Through this process, life experiences are evaluated to determine their appropriateness and applicability for university credit. For details regarding this process, contact the school at (717) 389-4420.

Attendance Fee Program

The attendance fee program allows individuals to attend classes without credit. Admission on this basis depends upon available space and the payment of a \$25 fee per course. Courses attended through this process do not earn college credit. A student desiring to attend classes in this manner must obtain verbal permission from the instructor before processing the form at the Business Office.

Certificate Programs

Designed specifically for nontraditional, career-oriented students, certificate programs represent packages of undergraduate credit courses that have been developed to meet the needs of those interested or working in the occupations associated with each program. Each program culminates in a certificate indicating the successful completion of each prescribed course and the overall program. Students must attain a minimum QPA of 2.0. For information, call (717) 389-4003.

Certificate program titles include: Community Recreation Leader, Community Services, Environmental Planning, Gerontology, Public Administration, and Theater and Music.

ROTC Programs

For information about the U.S. Air Force and Army Reserve Officers Training Corps programs available to Bloomsburg University students and course descriptions, see *Military Science* on page 257.

Summer Session

Undergraduate and graduate courses are offered in the summer sessions on campus and at off-campus locations. Students may schedule as many semester hours in a session as the number of weeks in that session. An overload requires the approval of the appropriate college dean.

Undergraduate courses are open without formal application to regularly enrolled students of the university who wish to enrich or

accelerate their programs of study or make up academic deficiencies. Others must apply for nondegree admission through the school.

Students from other colleges are admitted to summer session upon the filing of a simplified nondegree application form.

Graduate courses are offered for students who wish to continue their education at the master's level and/or to qualify for permanent certification. (See the *Graduate Studies Catalog*.)

Special workshops are scheduled to provide teachers in-service and other professional groups with specific training programs at times and locations convenient to their schedules and places of employment.

The Summer Session Bulletin, which includes undergraduate and graduate courses, may be obtained from the school or the Registrar's Office.

Admission, Financial Aid, Fees

Admission

Correspondence concerning admission and readmission should be addressed to: Director of Admissions and Records, Bloomsburg University, Ben Franklin Hall, Room 10, Bloomsburg, PA 17815-1301; or students may telephone (717) 389-4316 between 8 a.m. and 4:30 p.m, Monday through Friday. Requests for applications received by mail or telephone are acknowledged by third class mail.

Admission Procedures

Applicants must complete and submit an official application to the Office of Admissions, together with a \$25 nonrefundable fee (payable to Bloomsburg University). Freshman candidates are urged to initiate the application process prior to Dec. 1 for the fall semester. Candidates for the spring semester should submit application materials by Oct. 1. Final dates for receiving applications in the Admissions Office for an entry period are subject to change without notice.

An official secondary school transcript should be requested from and sent by a high school guidance counselor directly to the director of admissions and records. The transcript is required as part of the application process.

An applicant must submit results of the Scholastic Aptitude Test (SAT) of the College Board. The applicant is responsible for taking the test and requesting that the scores be forwarded directly from the Educational Testing Service to Bloomsburg University. Bloomsburg University's code number for the College Entrance Examination Board is 2646. A photostatic copy of the student's SAT results on an official secondary school transcript is acceptable. No other standardized test serves as a substitute for the SAT.

Freshman candidates must apply for admission in one of the following categories: Allied Health Sciences, Arts and Sciences, Business Administration, Business Education, Computer Science, Interpreting for the Deaf, Nursing, Teacher Education. Students may petition for an internal curriculum change after enrollment. Transferring into high-demand programs is possible but not guaranteed.

Entrance Standards and Notification Procedures The university does not prescribe fixed secondary school course requirements for admission but does, however, strongly encourage all students to take a college preparatory program in secondary school. Admission to Bloomsburg University is based on an applicant's academic and personal qualifications. Decisions are reached without regard to race, color, creed, national origin, sex or physical handicap. Acceptance is determined by the Admissions Committee upon evaluation of secondary school preparation, scores on the Scholastic Aptitude Test. personal characteristics, and institutional capacity.

The Admissions Committee reviews thousands of applications annually. The majority of notifications are made during December, January, and February.

Incoming fall freshmen must submit a partially nonrefundable advance deposit of \$260 for the basic fee, housing, and community activities by March 1 to secure their enrollment at the university.

Attendance at a three-day summer orientation is required for new students. A participatory fee of \$45 is charged for food and housing expenditures and a one-time administrative fee of \$20 appears on the first billing statement from the university. These fees are subject to change without notice.

Health Record

An applicant who is offered admission must submit a medical examination report form prior to enrollment. The appropriate examination report form is forwarded to the applicant upon receipt of advance deposits. Final permission to enroll is contingent upon a favorable review of the applicant's medical history by a university physician.

Educational Opportunity Programs and Act 101 The goal of these programs is to equalize educational opportunity for students regardless of their economic background or status. Any individual with a secondary school diploma or certificate of equivalency is eligible to apply for admission to these programs. Nontraditional criteria are applied in estimating the potential success of an applicant when it appears that the environmental background may have adversely affected grades and/or standardized test scores. The director of admissions and records may require an applicant for these programs to file supplementary information as needed for proper consideration.

Most students admitted are expected to participate in a summer program prior to the first semester of their attendance, where special assistance in tutoring and counseling is given to address specific academic, financial, and social programs. Permission to be exempted from this requirement can only be granted by the director of these programs.

Opportunities for financial aid at Bloomsburg University are outlined in a publication distributed annually to current and prospective students by the Office of Financial Aid in Ben Franklin Hall. (See page 36 for details on *Financial Aid*.)

Inquiries should be sent to the director of ACT 101/EOP or the director of admissions and records. (See page 160 for course offerings in *Developmental Instruction*.)

Early Admission

Outstanding students may be considered for admission prior to their secondary school graduation. In addition to strong achievement and high aptitude, applicants for early admission must have the endorsement of their secondary school to receive consideration. College credit earned may apply toward the requirements for a secondary school diploma. It is recommended that any student interested in early admission arrange an interview with the director of admissions and records.

University Scholars Program

The University Scholars Program provides a special academic experience for a preselected group of freshmen and sophomores. The program provides an appropriate challenge for students who have distinguished themselves educationally, have superior intellectual ability, set high

standards for themselves, and are seriously pursuing a quality college education.

The scholars curriculum is designed to foster the growth of intellectual independence, creativity, and initiative; enhance analytical thinking and problem-solving abilities; augment interpretative abilities and communication skills; and develop a sense of "common bonding." The curriculum accomplishes these ends by offering a variety of courses and course designs including symposia, forums, independent study, and experiential study that require extensive reading, writing, and in-depth study and research. The scholars courses are taught by university faculty who are designated scholars faculty because of distinguished scholarship, outstanding performance as teachers, and ability to relate to students.

The Scholars Program requires the completion of 24 semester hours of General Education credit in designated scholars courses within the first two academic years. The remainder of courses in these years is selected from regular course offerings to satisfy major, minor, and other General Education requirements. Scholars courses, while they satisfy General Education requirements, are specially redesigned to emphasize the integration of interdisciplinary knowledge, concepts, and skills.

Although university scholars have many special programs and services at their disposal, they also will be fully integrated into the mainstream of the campus community so that they may enjoy the same dimensions of university life that other students experience including residence hall living, a wide array of cultural activities, campus leadership opportunities, sporting events, and other cocurricular programs.

Eligibility for Admission—Scholars Program eligibility is based upon high school achievement, a ranking in the top 20 percent of the graduation class, and SAT scores of 1100 or more with a minimum score of 500 on both verbal and math subtests. Once eligible, high school seniors or graduates are selected on the basis of their application, essay, reference letters, and interview. Although high academic achievement provides eligibility, personal characteristics and extracurricular involvement are important in the selection process.

Retention—Students admitted to the University Scholars Program must maintain a minimum cumulative QPA of 3.0 to remain in the program. Students who do not attain this QPA in the first semester will be retained provisionally in the program with the stipulation that the 3.0 must be attained overall before the sophomore year.

At the completion of the program, a student who has maintained a minimum QPA of 3.50 or higher will be designated a University Scholar on his/her permanent record as well as on the diploma upon graduation.

At the end of the sophomore year, students may wish to apply to the upper-level Honors Program in their major discipline to continue in enhanced academic programs during their final two years.

Transfer Students An applicant who previously attended or at the time of application is enrolled in another college or university is a transfer applicant. Transfer

admission occurs three times during the year: fall, spring, and summer. Applications for the fall semester and summer sessions should be complete and on file in the Admissions Office prior to March 15. Applications for the spring semester must be complete and on file by Oct. 15. Nursing candidates for the fall semester must have completed applications on file by January 15 and by September 1 for January admission.

Requirements necessary to make a file complete for a transfer candidate include: an official secondary school transcript or a GED (General Equivalency Diploma); official transcripts from any postsecondary school attended; and the \$25 application fee. Scholastic Aptitude Test (SAT) results or American College Test (ACT) results must be submitted if the applicant has not completed 24 or more credits at a postsecondary institution. Official college transcripts from each school attended should be sent to the director of admissions and records regardless of whether or not credit was earned at the other institution(s).

A transfer student may be considered for admission if he/she is certified as holding good standing academically and otherwise in the college last attended and having an overall Quality Point Average (QPA) of 2.0 or better on a 4.0 system.

Although a 2.0 QPA is the minimum acceptable for transfer, to be competitive for admission to most programs, a QPA of 2.5 or higher is needed. The College of Business requires a 2.75 QPA for admission. The degree programs in mass communications, nursing or education require students to have a minimum QPA of 2.50 for entrance to the major.

Transfer applicants who have completed 30 semester hours at an institution of higher education must select a major upon entering the university. They may not enter as undeclared majors. Criminal justice and social welfare are majors not available to transfer students.

Credits are deemed transferable if earned at an institution that is accredited by the Middle States Association of Colleges and Schools/ Commission on Higher Education or its regional equivalent providing Bloomsburg University has equivalent courses. Students are informed of the tentative number of credits that may be transferred on their acceptance letter. Official transfer evaluations are completed when the student pays the advanced deposits. These transfer credit evaluations are then reviewed by the department chairperson who renders final approval of the evaluation. A maximum of 64 credits may be transferred from an accredited two-year college.

Students enrolled in the School of Extended Programs at the university must have completed 15 semester hours of specific General Education requirements to be considered for admission. A minimum QPA of 2.4 also is required.

Review of transfer applications is done on a rolling basis, with the exception of nursing applicants whose files are reviewed by the Student Admission, Progression, and Retention Committee of the School of Health Sciences.

An orientation for transfer students is held prior to their enrollment. Students are notified by the Orientation Office concerning specific information.

Readmission

Students failing to register for the next semester must apply for readmission. Nondegree students may continue to register without readmission provided their next registration is within four semesters of their last enrollment. It is suggested that students apply early for readmission.

Readmitted students are responsible for the graduation requirements and academic policies that exist at the time of their reentrance.

The director of admissions and records may require an applicant for readmission to file a letter containing such supplementary information as is needed for proper consideration.

Students under academic dismissal are ineligible for readmission for one calendar year. They should present evidence of successful achievement at another college or university as part of their application for readmission.

Readmitted students who were formally dismissed for academic deficiency have two final grading periods in which to regain minimum academic progress or good standing. If dismissed the second time, these students may not attend the university for additional degree or nondegree credit study.

Advanced Placement and CLEP

A student may receive a maximum of 64 semester hours by examination or experiential learning. Credit may be awarded for successful completion of institutional examinations and/or approved external examinations. The university recognizes two external examination programs: the College Level Examination Program (CLEP) and the Advanced Placement Program of the College Board.

The minimum score of awarding credit for general CLEP examinations is the 50th percentile of the sophomore national norms. Credit is awarded for the subject CLEP examinations for achievement at or above the mean score achieved by students in the national norm sample who earned the grade of C in a regular college course in the subject. Minimum scores for awarded credit and the amount of credit granted can be secured by writing the director of admissions and records.

A score of 3 or higher on an advanced placement examination exempts a student from the introductory course in the tested area. The student is also awarded credit. Advanced placement may be granted in English Composition after consideration of the applicant's verbal SAT scores, Test of Standard Written English results, and secondary school achievement.

Advanced Standing for Educational Experience in Military Service

As recommended by the American Council on Education in its *Guide* to *Evaluation of Educational Experience in the Armed Services*, the applicability of such credit to the requirements of the student's curriculum is determined by recommendation of the dean of the college and confirmation by the provost and vice president for academic affairs.

U. S. Air Force-I courses validated through college-level examinations are subject to the provisions for acceptance of correspondence courses. Qualified veterans enrolling in military science are eligible for placement into the advanced course based on their prior service and desire to seek a commission through the Reserve Officers Training Corps program.

Temporary Withdrawal/ Leave of Absence A student may request a temporary withdrawal for a specified period by securing the appropriate forms at the Center for Counseling and Human Development. To be eligible for a temporary withdrawal, the student must submit completed forms to the Office of Admissions for processing. A student must be in academic good standing or making minimal progress toward good standing and must request the temporary withdrawal prior to the registration date of the intended period of absence.

A student on a temporary withdrawal is assured a place in the semester designated for return provided the instructions that are part of the temporary withdrawal agreement are fulfilled, and advance deposits are submitted at the time designated by the director of admissions and records.

A student who returns from a temporary withdrawal of a calendar year or less in duration is responsible for the graduation requirements and academic policies that applied at the time the temporary withdrawal was requested. A student who returns from a temporary withdrawal of more than one calendar year duration must satisfy the graduation requirements and academic policies which exist at the time of return and is then classified as a readmitted student. Application materials and instructions may be secured from the Office of Admissions.

Second Baccalaureate Degree Application materials and instructions for obtaining a second bachelor's degree at Bloomsburg University may be secured from the Office of Admissions. There is an application fee of \$25. To qualify, an applicant must hold a bachelor's degree from an accredited college or university.

This second degree track requires a student to earn a minimum of 30 semester hours in undergraduate courses while in residence at the university. All curriculum requirements for the second degree must be satisfied and free elective credit taken, if necessary, to complete the minimum of 30 semester hours.

If there is a replication of a required course(s) in the two baccalaureate programs, the course(s) cannot be applied as part of the 30-semester-hour requirement for completion of the second degree.

The applicant must provide the department chairperson from the discipline they wish to pursue with a copy of their college transcript and a second degree application form. Pending a favorable review of the applicant's academic credentials, the chairperson signs the application and forwards it and the official transcript to the Admissions Office.

International Students Residents of foreign countries should initiate their application well in advance of the semester they plan to enroll. Non-U.S. citizens who are not resident aliens need to submit a special application for international students. This application may be obtained by writing the director of admissions and records. Students whose native language is other than English are required to submit the results of the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service in Princeton, N.J. The minimum acceptable TOEFL score is 500. Those students who fail to earn a score of 500 are urged to

investigate one of the ESL Language Centers that are located throughout the United States. Upon completion of the ESL program, the minimum QPA acceptable to supplement a TOEFL score of under 500 is a 2.5.

Certificates of educational training should be accompanied by certified translations if they are presented in a language other than English. Credentials should be supplemented by brief course descriptions of subjects successfully completed.

Students are required to submit a notarized financial statement that would indicate their ability to finance their educational and living expenses for the duration of their college career. Due to financial limitations, students who are unable to provide for their educational and living expenses will not be offered admission to Bloomsburg University.

Campus Visits

Group interviews are held regularly on campus. Arrangements can be made to attend a group interview by contacting the Office of Admissions at (717) 389-4316. The campus Visitors Center is located in the lobby of Waller Administration Building and open weekdays, 8 a.m. to 4:30 p.m. and weekends, 10 a.m. to 3 p.m.

Three Saturday Open House programs are held in October, November, and February in Mitrani Hall of Haas Center for the Arts beginning at 10 a.m. Open House programs consist of a general meeting with admissions staff and administrative personnel, a question-and-answer session, a campus tour, lunch (at a nominal cost), and meetings with faculty from various academic departments. Participation in an open house day may be more meaningful than a group interview because prospective students have the opportunity to meet directly with members of the university faculty.

Off-campus Visits

Each year, representatives from the Office of Admissions visit secondary schools and community colleges throughout Pennsylvania and in neighboring states. They also participate in approximately 100 college night/career day programs including National College Fair programs in Philadelphia, Pittsburgh, and New Jersey. Prospective applicants are encouraged to check with their school or community college counselors to determine if an admissions representative will be visiting their institution or attending a nearby college night program.

Financial Aid

There are four kinds of financial aid available at Bloomsburg University: grants, student employment, loans, and scholarships. All applicants for financial aid must submit the Free Application for Federal Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR) to the Pennsylvania Higher Education Assistance Agency. Eligibility for all financial aid programs administered at the university is determined on the basis of the information submitted on the Free Application for Federal

Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR). It is important to comply with application deadlines and to be sure the information submitted is complete and accurate. There is no processing fee for this application.

If a student wishes to participate in the Student Employment Program at Bloomsburg University, an additional application must be submitted directly to the Financial Aid Office. The application procedure for the Stafford Loan also differs. (See the subsection under *Loans* on page 44.)

The financial aid process can be discouraging if applications are not completed properly. Answer the application questions carefully and check all work before submitting the forms to the appropriate agency. If after completing the application, a family experiences a significant reduction in income, for example, loss of financial support due to death, divorce, or prolonged unemployment, the student should notify the Financial Aid Office immediately, either in writing or in person, in order to be informed of any available financial aid.

A deadline is imposed for submitting the Free Application for Federal Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR), so the university may inform you at the earliest possible time of your "financial aid package." By not complying with the March 15 deadline, a student may miss the opportunity to be considered for financial aid programs administered by the university. The Pennsylvania State Grant Program has an application deadline of May 1 of each year.

Students must reapply annually. Financial aid is not automatically continued from one year to the next.

To be eligible for financial aid at Bloomsburg University, students must be citizens or permanent residents of the United States. Persons in the United States on student visas (F-1 or F-2) are not eligible for federal student aid.

To receive financial aid, students must: be making satisfactory progress toward completion of their course of study; not be in default of a Perkins Loan or a Stafford; and not owe a refund on a Pell Grant or a Supplemental Educational Opportunity Grant.

Students do not automatically transfer their financial aid from one institution to another. Transfer students must submit an official Financial Aid Transcript to the university's Financial Aid Office to document their financial aid record at all institutions the student has attended. No financial aid may be processed until this information is received.

Refund Policy

The refund policy for financial aid recipients at Bloomsburg University is explained under the "Fees" section of this catalog. Please refer to page 51 for details.

Satisfactory Progress Students must maintain satisfactory progress toward a degree in order to receive financial aid from the programs authorized by Title IV of the Higher Education Act and other programs. At Bloomsburg University, these programs are: Pell Grant, Supplemental Educational Opportunity Grant, Athletic Grant, Fred Smith Scholarship, Board of Governors

Basic Fee Waiver, Paul Douglas Teacher Scholarship, College Work-Study, University Employment (State), Perkins Loan, Stafford Loan, Parent Loan for Undergraduate Students, and Supplemental Loan for Students.

Satisfactory Progress Policy—For financial aid purposes, minimum progress toward the completion of a degree requires that a continuously enrolled full-time student earn at least 24 semester hours in a 12-month period unless extraordinary circumstances exist. Students in the university's Summer Freshman Program, who are registered for less than 12 semester hours during the summer, are required to earn 21 semester hours during their freshman year. Students enrolled full-time for one semester are expected to earn at least 12 semester hours. Part-time and graduate students must earn semester hours as prescribed below:

1-8 semester hours-Half of all semester hours attempted must be earned.

9 or more semester hours-Two-thirds of all semester hours attempted must be earned.

Students must meet a qualitative measure of progress as described:

Semester Hours Earned	Cumulative QPA Required
Including Grades of P	for Minimal Progress
and Transfer Credits	
1 - 16	1.25 - 1.99
17 - 32	1.65 - 1.99
33 - 48	1.85 - 1.99
49 - 64	1.95 - 1.99
65 or more	2.00

If a student has earned 24 semester hours but has not attained the required QPA, financial aid may be received for additional probationary semesters upon review by the director of financial aid.

An incomplete grade, a failing grade or a withdrawal from a course are counted as zero semester hours earned.

Course repeat grades are only counted toward the minimum satisfactory progress standard if semester hours were actually earned.

Note: Repeat of a D grade would not be counted as semester hours earned in two different semesters.

Time Frame for Programs of Study

Monitoring,

Reinstatement

Termination, and

Full-time undergraduate students are expected to complete their programs of study within five years unless extraordinary circumstances exist, i.e., transfer, change in major. The total semesters for completion of degree programs for part-time students are extended proportionately.

The Financial Aid Office monitors satisfactory progress each semester. Students are notified that aid is being canceled if the number of semester hours earned during the fall and spring semesters and summer sessions does not meet satisfactory progress requirements.

Students who are academically eligible to continue their enrollment but do not meet the criteria for financial aid, may continue to attend classes at their own expense and seek financial aid when their academic credentials equal required minimum standards.

Students who have been academically dismissed for at least one year will be considered making satisfactory progress for financial aid purposes upon achieving reinstatement to the university.

Appeals—Any student whose financial aid has been canceled because of unsatisfactory progress may appeal this decision. Appeals must be in writing and should be forwarded to the director of financial aid.

Financial Need

Students have to establish "financial need" to qualify for "need-based" Title IV programs such as Pell Grant, Supplemental Educational Opportunity Grant, Stafford Loan, Perkins Loan, and College Work-Study. An individual's "need" is the difference between what it costs to attend college and what the student and their family can contribute. The formula for computing financial need is:

Costs of Going to College

(tuition, fees, books, supplies, room/board, and personal expenses)

Less the Family's Contribution

(the amount you and your parents are able to contribute as calculated by a federal financial aid formula)

Equals = Financial Need.

Financial Aid Packages—Financial aid comes in the form of grants, scholarships, loans, and work aid. If a student is eligible for aid, she/he is usually offered a "financial aid package," an outline of the types of financial aid a student will receive, which is cited in an awars letter.

Grant and Scholarship Aid

Pell Grants—This federal grant program is available to undergraduates (pursuing their first baccalaureate degree) enrolled at least half-time in a degree program. Grants will range from \$200 to approximately \$2,300. Apply by using the Free Application for Federal Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR) available at the Financial Aid Office or from your secondary school guidance counselor.

Note: Applicants will receive a Student Aid Report directly from Pell Grants which must be submitted to the Financial Aid Office.

Pennsylvania State Grants—The Pennsylvania State Grant Program is available to full-time undergraduate degree students who are residents of Pennsylvania. These state grants range from approximately \$100 to \$2,400 per year at Bloomsburg University and may be used over four years or eight semesters.

To apply for this program, students must use the Free Application for Federal Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR). Applications are available at high school guidance offices and college financial aid offices and by contacting PHEAA, Grant Division, Towne House, Harrisburg, PA 17102. Application deadline is May 1.

Other State Grants—Students residing in states other than Pennsylvania are encouraged to investigate the availability of grant assistance

from their respective states. A listing of the names and addresses of state grant agencies is available from the Financial Aid Office.

Supplemental Educational Opportunity Grants (SEOG)—SEOG is a federal grant for students of exceptional financial need who would not otherwise be able to continue their education. Students are eligible to apply if they are enrolled or accepted as full-time degree students. To apply, submit the Free Application for Federal Student Aid (FAFSA) to PHEAA, Harrisburg, Pa., in mid-March.

Bloomsburg University Scholarships Undergraduate students may apply for a Bloomsburg University scholarship if they have completed a fall semester at the university as a full-time student and they are enrolled for the following academic year. Scholarships are based on cumulative average, extracurricular activities, and/or financial need. Unlike other aid programs, scholarships consider grades and activities foremost.

The application deadline is usually Feb. 5. Scholarship applications can be obtained from the Financial Aid Office. These scholarships are not available for summer study. Award recipients are selected by the Financial Aid Committee and announced at an awards ceremony in the spring. Scholarship amounts may vary each year.

Bloomsburg University Scholarships and Grants Arts and Sciences

O.H. and S.H. Bakeless Alumni Grant, \$350 John A. Hoch Alumni Grant, \$350

E.H. Nelson Scholarship (Wrestling), \$700

Athletics

Francis 'Doc' Sell Scholarship (Football), \$700
Dick Lloyd Scholarship (Men's Basketball), \$700
Lucy McCammon Scholarship (Women's Swimming), \$500
Jan Hutchinson Scholarship (Softball), \$500
Eleanor Wray Scholarship (Women's Basketball), \$500
Clyde S. Shuman Sportsmanship Award, 2 @ \$250
Lamar Blass Memorial Scholarship, \$150
Dorothy Q. and Lloyd S. Wartman Memorial Scholarship Fund 2 @ \$300
J.M. Auten - Women's Intramural Sports Scholarship, \$200

Band

Howard F. Fenstemaker Scholarship, \$350

Biology

Biology and Allied Health Science Scholarship, \$250

Business

Nationwide/BU Alumni Scholarships, \$1,000 Richard A. Benefield Scholarship, \$1,000 John W. Matlavage Award, \$250 Angelo Scheno Scholarship, \$500 Mildred Eaton Levitt Scholarship, \$275 Norman Hilgar Scholarship, \$250 Harvey A. Andruss Scholarship, \$350 Elizabeth Andruss Scholarship, \$500 Walter S. Rygiel Scholarship, \$200 College of Business Scholarships, 2 @ \$250

Chemistry

David Murphy Memorial Scholarship

Communication Disorders

James Bryden Scholarship, \$500 Emily Reuwsaat Scholarship, \$500 Frances Fay DeRose Memorial Scholarship, \$350 Tammy Hrusovsky Scholarship, \$100

Early Childhood Education

Early Childhood Education Scholarship, \$200

Elementary Education

A. Kenneth and Mary Betterly Maiers Scholarship, 3 @ \$500 Ann J. Jarrett Scholarship, \$225 Charlotte Hess Memorial Scholarship, \$150

English

Catherine O. Renninger Scholarship, \$1,000 Margaret Bittner Parke Scholarship, \$300 Cecil Seronsy Scholarship, \$300 Louis F. Thompson Scholarship, \$300

Fraternities

Gary Holland Scholarship, \$1,000 Robert D. Warren Scholarship, \$1,000 Mary Wilson Scholarship, \$1,000 Eunice Davilla Scholarship, \$1,000 Dave Bittner Scholarship, \$175 Leon Kozubal Scholarship, \$150 Dave Rathkey Scholarship, \$150 Al Decker Scholarship, \$100 Timothy M. Miller Scholarship, \$500 Phi Sigma Pi Scholarship, \$100

General

Ken Gross Scholarship, \$1,000 Class of 1941 Scholarship, \$650 Lieutenant Donald Jenkins Scholarship, \$500 Mount Carmel Scholarships, 2 @ \$500 Student Memorial Scholarship, \$400 Class of 1933 Scholarship, \$400

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Ercel D. Bidleman Scholarship, \$300 Kimber Kuster Scholarship, \$300 Class of 1968 Scholarship, \$150 President's Scholarship, \$300 BU Family Scholarship for BU Relatives, 6 @ \$250 BU Family Scholarship for Undergraduate Students, 2 @ \$250 Mary L. Frymire Kirk Scholarship, \$200 Anne Lowrie Welles Scholarship, \$75

Geography

Bernard and Francis Young Scholarship, \$400

History

William A. Turnbach Scholarship, \$1,000 John J. Serff Sr. Memorial Scholarship, \$500 Erma M. Hefferan Scholarship, 2 @ \$500 Erma H. Hefferan Study Abroad Scholarship, \$100

Languages

William A. Turnbach Scholarship, \$1,000 Languages and Cultures Scholarship, \$250

Mathematics/Computer Sciences J. Edward Kerlin Scholarship, \$250

Non-Degree

Extended Programs Scholarship, 2 @ \$250

Nursing

Hazleton General Hospital Nursing Scholarship, 2 @ full tuition Helene Robertson Nursing Scholarships, 3 @ \$700 Columbia County Medical Auxiliary Memorial Scholarship, \$250 Eloise Hippensteel Memorial Scholarship, \$200

Professional Studies

R. Bruce Albert Scholarship, \$300 Boyd F. Buckingham Scholarship, \$300

Psychology

Ellen Barker Memorial Scholarship, \$225

Residence Hall

Elton Hunsinger Scholarship, \$250 Joanne Thomas Memorial Scholarship, 2 @ \$200

Secondary Education

Lee Aumiller Scholarship, \$1,000

Sororities

Rita M. Guerrieri Memorial Scholarship, \$400

Veterans

Veterans Memorial Scholarship, \$900 "Cotton" Franklin V-12 Scholarship, \$200

Scholarships for which students are nominated and selected by individuals or departments:

Gerald Bacon Memorial Scholarship, \$200

Enola Snyder Evans Scholarship, \$500

Editha Ent Adams Scholarship, \$100

Alma S. Wilson Memorial Scholarship, \$100

Minority Scholarship, \$1,000

Minority Leadership Scholarship

George and Dorothy Wasdovich Scholarship, \$900

Robert Redman Scholarship, \$600

Russ Houk Scholarship, \$2,000

Eli McLaughlin Scholarship, \$500

James H. McCormick Scholarship, \$600

Mary Weaver Evans Scholarship, \$250

Department of Music Service Scholarships

Sylvia H. Cronin Memorial Music Scholarship

Nelson A. Miller Memorial Music Scholarship

Brenda K. Hafner Memorial Music Scholarship

James R. Hammaker Sr. Memorial Orchestra Scholarship

Mabel C. Jury Music Scholarship

Ginny Thornburgh Award at Bloomsburg University, \$650

Jerrold A. Griffis Community Government

Association Award, \$1,000

Dr. Emory W. Rarig Jr. Pi Omega Pi Award, \$200

Robert Rosholt Award, \$50

Bloomsburg Chapter Professional Secretaries International Scholarship, \$150

Junior Chemistry Achievement AAward, \$100

William Forney Award, \$50

Elizabeth Hubler Award, \$50

Richard Savage Poetry Award, \$100

Jean Kalat Memorial Award, \$125

Scholarships awarded directly from organizations and other private agencies:

APSCUF Scholarship, \$300

Baby Bloomer Scholarships, 2 @ \$1,000

Board of Governors Basic Fee Waiver

Chip Callahan Memorial Scholarship, \$100

John F. Cook Art Student Award, \$500

Student Leadership Scholarship, multiple awards from \$250 - \$750

Mitrani Scholarships, 12 @ \$1,500

Robert G. Norton Community Goernment Association

Leadership Award, \$1,000

Nursing Awards

Paul Douglas Teacher Scholarships, up to \$5,000 per year

Fred G. Smith "Golden Rule Trust Fund" Scholarship Ginny Thornburgh State-Wide Scholarship University Scholars Program University Honors Program Scholarships, 5 @ \$500 Chemistry Scholarship Award, \$350 Paul J. Yori Jr. Award, \$500 Dominic Murtin Scholarship, \$100

Army ROTC Scholarships/Stipends—Army ROTC Scholarships are available to qualified students on a competitive basis for three-year and two-year periods. For information, contact the Army ROTC Office, located on upper campus, at (717) 389-2123.

Air Force ROTC—Students who wish to investigate financial aid opportunities offered by the Air Force ROTC Program should contact the Department of Aerospace Studies, Wilkes University, Wilkes-Barre, PA 18766; (717) 829-0194.

Loans

The costs of higher education for any given year include tuition, fees, room, board, books, transportation, and miscellaneous expenses. A student needs to consider all these expenditures when determining how to finance their education. In addition to loans, students should investigate and apply for other types of financial aid including grants, scholarships and work-study programs. Families need to decide how much in personal resources they can commit to these educational costs. Money from savings, assets, and summer jobs can reduce the amount of loan assistance that a student may require. Once these factors have been assessed, a student can accurately determine an appropriate borrowing level.

Students should bear in mind that a loan is a serious financial obligation. Upon completion of their degree, students will probably join the work force at an entry-level salary. Expenses for housing, clothes, car, insurances, and student loan payments will place great demands on this salary. Default on a student loan may adversely affect an individual's credit rating, result in legal action pursuant to collection, or cause income tax refunds or salary to be garnered.

Perkins Loan—Perkins is a federal loan program that is need-based and administered by the Financial Aid Office. To be eligible, a student must be enrolled or accepted as a full-time degree student and have financial need. Perkins loans range from \$200 to \$2,000 per academic year and are usually packaged with other forms of aid (i.e., Pell Grant, SEOG or CWSP).

Perkins is a 5 percent simple-interest loan that requires repayment to begin nine months after the student terminates her/his education. The Perkins Loan Program contains provisions whereby a student may be eligible to have the loan canceled over a five-year period; i.e., a student who works with the handicapped or in a geographic area that is classified by the U.S. Department of Education as a poverty area.

To apply for a Perkins Loan, submit the Free Application for Federal Student Aid (FAFSA) to PHEAA, Harrisburg, Pa., by March 15.

Stafford Loan Program—The Stafford Loan Program is designed to help students finance their educational objectives by combining the maximum benefits of state and federal student aid loan programs through a single and convenient application process. The Stafford Loan Program combines two loans: the subsidized Stafford Loan and the non-subsidized Stafford Loan.

A subsidized Stafford Loan is one on which the federal government pays the interest while the borrower is in school. Eligibility for a subsidized Stafford Loan is based on family income and financial need established by standards set by the federal government. A nonsubsidized Stafford Loan is one on which the borrower is responsible for payment of the interest during the in-school period but interest rates are below the standard commercial rates.

When an individual files a PHEAA Stafford Loan application, their maximum eligibility for the subsidized Stafford Loan is determined first, so they can borrow as economically as possible. If a student qualifies for all or part of the subsidized Stafford Loan, a subsidized loan is issued by their bank or other lending institution. If they do not qualify for the full subsidized Stafford Loan, then PHEAA, as the lender, offers a nonsubsidized Stafford Loan for the difference.

For example, a first-year undergraduate who is eligible for a \$1,000 subsidized Stafford Loan would be offered a \$1,625 nonsubsidized loan to reach the \$2,625 annual maximum. Or, a graduate student who is eligible for a \$2,000 subsidized Stafford Loan could be offered a \$6,500 nonsubsidized loan to reach the \$8,500 annual maximum. If a student fails to qualify for any subsidized loan, they are offered the full amount on a nonsubsidized basis.

Applications for the Stafford Loan Program are available from the Pennsylvania Higher Education Assistance Agency in Harrisburg, local banks, savings and loan, and credit unions. These loans are available to Pennsylvania and out-of-state residents.

The annual and aggregate limits for Stafford Loans are:

Academic Grade Level Limits	Aggregate Limits	
\$2,625 1st-year undergraduate		
\$3,500 2nd-year undergraduate		
\$5,500 3rd-year undergraduate		
\$5,500 4th-year undergraduate		
\$5,500 5th-year undergraduate	\$23,000	
\$8,500 graduate level	* \$65,500	
*includes undergraduate borrowings		

An academic year of advancement in the student loan program is defined by the number of semester hours completed by the student. These levels are:

Year 1 — 0-29 semester hours Year 2 — 30-61 semester hours Year 3 — 62-93 semester hours

Year 4 — 94 or more semester hours

Year 5 - Graduate student

Interest rates on Stafford Loans will vary depending upon when the student first borrowed the loan. However, interest generally falls in the 8 to 10 percent range. Students should contact their lenders to receive current information on Stafford Loan interest rates.

Eligibility for a Stafford Loan is restricted to the difference between total educational costs and other financial aid received by the student for the enrollment period for which the loan is applied, minus expected family contribution. Included in educational costs are tuition and fees, room and board, books and supplies, personal student expenses, and transportation. Student financial aid includes funds received from other student loans, federal college work-study, and any type of scholatship, grant, or fellowship. The expected family contribution is determined by the federal need-analysis formula.

Other Guaranteed Student Loans—Most other states also administer programs of Stafford Loans with similar conditions to that of Pennsylvania. Interested students should contact the Bloomsburg University Financial Aid Office regarding Stafford Loan programs available to students residing in other states.

PLUS (Parent Loan for Undergraduate Students)—Parents of dependent undergraduate students, independent undergraduate students or graduate students are eligible to borrow under the PLUS Program. Repayment of principal and interest begins within 60 days after the disbursement of the loan, and interest is variable. PLUS applications may be obtained at most local lending institutions.

Student Employment Earnings gained through part-time employment can be a substantial source of additional income to defray college expenses. This work experience may also be invaluable in developing skills needed for future full-time employment. Students may work a maximum of 20 hours per week at \$4.25 per hour; however, full-time employment is permitted during the summer under certain conditions.

Note: A work-study award is an authorization to work, not a guarantee of employment. The student is responsible for finding a job.

Federal College Work-Study Program The College Work-Study Program (CWSP) on campus provides jobs for students who have financial need as calculated by an approved needs analysis service. Students may apply if they are enrolled for at least 6 semester hours in a degree or eligible certificate program.

Submit a Free Application for Federal Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR) to PHEAA, Harrisburg, Pa., and an application for student employment to the Financial Aid Office. The employment application is available from the Financial Aid Office.

The pay rate is the prevailing minimum hourly wage with a maximum of 20 hours per week while attending classes: Graduate students

are currently compensated at \$4.25 per hour.

Limited full-time summer work on-campus is available to students who have need and who normally attend the university on a full-time basis but are not enrolled in summer classes. Award letters and job placement instructions are sent by the Financial Aid Office to applicants eligible for on-campus summer employment as soon as possible after April 30.

State Student Employment Program The State Student Employment Program differs from the College Work-Study Program in that the student does not have to demonstrate need for the funds earned through employment. However, applicants must submit the Free Application for Federal Student Aid (FAFSA) and PHEAA Aid Information Request (PAIR) to PHEAA, Harrisburg, Pa., and an application for student employment to the Financial Aid Office by March 15. Students who do not qualify for the College Work-Study Program frequently can be employed under the State Student Employment Program.

The pay rate is \$4.25 per hour with a maximum work load of 20 hours per week while attending classes. Pay rates are subject to change without notice in accordance with changes in the Minimum Wage Law.

Limited full-time summer jobs on campus are available to students whose specific job skills are needed by the university and who normally attend Bloomsburg University on a full-time basis, but are not attending summer classes. Award letters and job placement instructions are sent by the Financial Aid Office to applicants eligible for on-campus summer employment as soon after April as possible.

Summer Off-Campus Work-Study Program The summer off-campus work-study program provides full-time summer jobs at \$4.25 per hour for students who have great financial need and who must earn a part of their educational expenses. The application procedure is the same as that for on-campus College Work-Study. Application must be made no later than March 15. Job placement is arranged by PHEAA, sponsor of the program. Students work in non-profit organizations in their home areas and have some preference in job location and job type.

Vocational Rehabilitation The purpose of vocational rehabilitation is to provide training and services for physically or mentally disabled or handicapped persons. If students are enrolled in an educational program, they can receive aid to pay for educational costs. Students may also receive assistance in purchasing the tools and equipment necessary for a job.

Students may be eligible for aid under the Vocational Rehabilitation program if they have a physical or mental disability or handicap which interferes with their vocational goals. The Vocational Rehabilitation Office is located in Room 17 on the second floor of Ben Franklin Hall.

Veterans Benefits Students who are veterans of the armed services may qualify for educational assistance under the GI Bill of Rights or Veterans Educational Assistance Program. For more information, contact the local Veterans Administration Office.

Regional Awards

Students are encouraged to investigate possible financial aid opportunities in their home communities. High school guidance personnel may be able to extend considerable assistance as to the availability of aid through sources such as local PTA chapters, teachers' associations, service clubs, fraternal clubs, local industry, local foundations, and religious organizations.

Paul Douglas Teacher Scholarship—Administered by PHEAA in Pennsylvania, the Paul Douglas Teacher Scholarship Program is designed to encourage academically talented students to enter the preschool, elementary or secondary teaching fields. Annual scholarships of up to \$5,000 are awarded to eligible secondary school graduates on the basis of academic achievement and the recommendation of an instructor or high school official.

Applicants must sign an agreement to teach for a period of not less than two years in exchange for each year they receive the scholarship or repay the award as a loan, including interest. The application deadline is usually May 1 for the following academic year. Applications and information may be obtained from secondary school guidance counselors or the Pennsylvania Higher Education Assistance Agency, Coordinator for Teacher Education Programs, P.O. Box 8114, Harrisburg, PA 17105-8114.

Fees

Fees are subject to change without notice.

Community Activities Fee

The Community Activities fee of \$60 per semester is charged to each full-time undergraduate student. Part-time students taking coursework on campus are required to pay the Community Activities fee at the rate of \$5.00 per semester hour. Community Activities fees finance student activities in athletics, recreation, music, lectures, student publications, general entertainment, student organizations, and other student-supported programs.

Basic Fees

Full-Time Undergraduate In-State Residents

The basic semester fee for full-time undergraduate students who are residents of Pennsylvania is \$1,414. An extra fee of \$118 per semester hour is charged for course loads in excess of 18 semester hours in any one semester.

Part-Time Undergraduate In-State Residents

Undergraduate students who are Pennsylvania residents and who take fewer than 12 semester hours in one semester pay fees of \$118 per semester hour.

Full-Time Undergraduate Out-of-State Students

Out-of-state undergraduate students pay fees per semester of \$3,061 for

12 to 18 semester hours. The definition of an out-of-state student may be obtained from the Admissions Office.

Part-Time Undergraduate Out-of-State Students

Out-of-state undergraduate students who take fewer than 12 semester hours in a semester pay fees of \$255 per semester hour.

Graduate Students (In-State or Out-of-State Residents)

In-state graduate students pay \$1,414 for 9 to 15 semester hours and \$157 per semester hour for less than 9 or in excess of 15 semester hours. Out-of-state graduate students pay \$2,098 for 9 to 15 semester hours and \$233 per semester hour for less than 9 or in excess of 15 semester hours.

Summer Session Fees

In-state undergraduate students pay \$118 per semester hour for summer session courses. In-state graduate students pay \$157 per semester hour. Out-of-state undergraduate students pay \$255 per semester hour for summer session courses. Out-of-state graduate students pay \$233 per semester hour for summer session courses. The Community Activities Fee is \$2 per week for all students taking undergraduate coursework on campus.

Changes in Fees or Costs

All fees or costs are subject to change without notice. If billing is prior to change, student accounts will be charged or refunded after the fact. Charges for dining hall meals are adjusted annually after the end of the academic year. The adjustment under the food service contract, currently in force, is based on the wholesale price index.

Housing Fees

Accommodations during the 1992-1993 academic year in a campus residence hall cost \$911 per semester for single occupancy, \$788 per semester for double occupancy, and \$791 for upper campus apartments. The 1993 summer session housing fee is \$55 per week for upper campus apartments and \$55 per week for lower campus.

Meal Plans

All students who live in the residence halls are required to take their meals in the campus dining hall under one of two food service plans during the academic year; \$639 per semester (\$50 in flex dollars) for 19 meals per week or \$618 per semester (\$100 in flex dollars) for 14 meals per week. The summer session food service charge is \$40 per week for 19 meals and \$39 per week for 15 meals. Food service fees are payable with the housing fee as a combined charge. Housing and food service fees are the same for Pennsylvania residents and out-of-state students.

Students who live off-campus may take their meals in the dining hall if space is available. They may opt for one of four meal plans: 19 meals per week for \$639 per semester (\$50 in flex dollars), 14 meals per week for \$618 per semester (\$100 in flex dollars); 10 meals per week for \$523 per semester (\$50 in flex dollars); and seven meals per week for \$452 per semester (\$50 in flex dollars). The 14, 10, and seven meal plans apply to any meals served in the dining facilities Monday through Sunday. No

changes to meal plans are processed after the second week of the semester. (See the section on *Basic Fees* on page 48.)

 Casual Meal Rate
 1992 - 1993

 Breakfast
 \$2.55
 Dinner
 \$4.85

 Lunch
 \$3.80
 Steak Dinner
 \$6.35

Arrangements for room guests must be approved by the resident director of the hall where the guest will be housed.

Keys

A \$30 fee is charged for replacing a room key and \$5 for a mailbox key.

Payment of Fees

A nonrefundable advance registration fee of \$100 is payable when an individual is approved for admission as an undergraduate student or when a former student is approved for readmission. This fee is credited to the first basic fee payment.

The 50 percent Community Activities Fee for one semester (\$60) is payable when a student is approved for admission or when a former student is approved for readmission after being out of school for one or more semesters.

A \$100 advance housing deposit, of which \$50 is refundable, is required to reserve a room accommodation and negotiate a housing contract for the academic year. This deposit must be paid prior to room assignment and is credited to the housing charge for the current semester.

Bank drafts, post office money orders, or checks must be made out for the exact amount of the fee.

Fees, other than the activities fee, are payable to the university. Activities fees are payable to Community Activities.

Fees are due at times determined by the Business Office or the Community Activities Office.

The university reserves the right to withhold information concerning the record of a student who is in arrears in fees or other charges including student loans.

The university does not offer a time payment plan. Billing statements of student accounts are mailed prior to registration each semester. Failure to comply with the directive concerning payment excludes the student from registration.

Inquiries concerning fees may be addressed to: Director of Accounting, Business Office, 22 Waller Administration Building, Bloomsburg University, Bloomsburg, PA 17815.

Orientation Fees

There is a one-time *administrative* orientation fee of \$20 paid to the Business Office at the initial billing.

A participatory fee for the orientation program held on-campus is included with the registration for the program and paid directly to the Orientation Office.

Participatory fee for orientation:

\$45 for fall freshmen \$10 for January freshmen

\$15 for fall transfer students

\$10 for January transfer students

\$16 for summer freshmen

\$17 for Developmental Instruction students

\$10 for January Developmental Instruction students

Miscellaneous Fees **Diploma Fee**—A diploma fee of \$10 is charged at graduation for a bachelor's degree or a master's degree.

Transcript Fee—A \$2 fee is charged for each official transcript of a student's record and \$1 for an unofficial transcript.

Late Registration Fee—A late fee of \$10 is charged to a student who completes registration after the official registration date.

Application Fee—A \$25 application fee must be paid by each applicant, undergraduate and graduate, at the time of request for registration.

Student Community Building Fee—Students are charged a Student Community Building Fee of \$60 per semester for regular sessions, \$3.50 per credit hour for summer sessions (\$42 maximum rate).

Recreation Center Fee—students will be charged a Recreation Center fee of \$60 per semester for regular sessions, \$3.50 per credit hour for summer sessions (\$42 maximum rate).

Hêalth Service Fee Health Service Fee—All students carrying 9 or more semester hours are assessed a \$30 Health Service fee per semester. Students scheduling 8 semester hours or less will not be assessed a Health Service fee.

Faculty and staff who schedule academic courses are not assessed a Health Service fee. Student teachers and/or students on internships who are not residing in the Bloomsburg area are not liable for this fee; they may request, in writing, an exemption from the Business Office. Students registered in extension courses also are not assessed a health fee. Health services are available only to students who pay a health fee.

All students enrolled in a summer session are assessed \$1 per week for the length of the session(s) for health services.

The monies collected from this fee pay for the health service that has been designated by the Pennsylvania Legislature as an auxiliary function of the institution. These funds are expended for the professional salaries related to health services, plus the cost of the Hospital Emergency Room Fee Waiver Contract and other service contracts, i.e., ambulance service, family planning, medical supplies, utilities, and the self-care unit.

Refund Policies

Application Fee—The application fee (\$25) is not refundable.

Advance Registration Fee—The advance registration fee (\$100) is not refundable.

Basic Fee— Pennsylvania State System of Higher Education fees are established uniformly based upon recommendations of the Board of

Governors. Advance deposits credited toward the basic fee are non-refundable. Other amounts paid and credited toward the basic fee are refundable in full for students who withdraw for approved reasons prior to the first class day. Students who reduce their credit hour load so as to qualify for billing as part-time students are eligible for a refund of the amount paid which exceeds the part-time rate.

Procedures—Tuition fees are eligible for refunds when the student withdraws from the university. All refund requests must be submitted in writing and comply with the appropriate institution's processing procedures. Refunds on student activity fees will be within those regulations and procedures established by the student organization, as approved by the president of the university. Such refunds must be consistent with Federal law. A student is eligible for consideration for a refund for any reason approved by the president or the president's designated official. The refund schedule applies also to all part-time students reducing their credit hour load. Except for minimum forfeit of advanced deposits, refunds for tuition are based on the following schedule if applicable after the first full class day:

1st - 2nd week 3rd week 4th week 5th week After 5th week 80% 70% 60% 50% No Refund

The university is responsible for notifying each student of its refund policy. Full refund of tuition is granted to students of State System universities who are military reservists or members of the National Guard and are ordered to active military service by the president of the United States. With respect to room and board fees, all refund schedules apply only to conditions in which students withdraw entirely from the university.

The following is the schedule of refunds to aid recipients under Title IV of the Federal Higher Education Act, as amended, who are first-time students at this university, and receiving Federal financial aid:

Time of Withdrawal	16 - Week Semester Percentage Refund
First Week	90%
Second.Week	80%
Third Week	80%
Fourth Week	70%
Fifth Week	60%
Sixth Week	60%
Seventh Week	50%
Eighth Week	40%
Ninth Week	40%
Tenth Week	30%
Eleventh Week	No refund
and Beyond	

The Commonwealth of Pennsylvania provides approximately \$3,676 per full-time equivalent student to the State System of Higher Education in support of each student's education.

Community Activities Fee—The Community Activities Fee (\$60), paid as part of the advance registration deposit, is not refundable.

Other Refund Policies

No refunds are made when students are suspended, dismissed, or voluntarily withdraw from the university. The \$125 housing deposit is not refunded when housing contracts are broken due to voluntary withdrawals from school. Room fees are refunded on the same basis as the basic fees are.

In cases of personal illness that are certified by an attending physician or for other reasons which may be approved by the university's Council of Trustees, refunds of the housing fee and contingent fees are prorated; the unused portion is subject to refund.

In case of withdrawal, refunds that are due are computed from the date the notice of official withdrawal is received at the Registrar's Office.

Books and Supplies

Books and supplies are estimated at \$170 per semester. Students may secure books and supplies at the University Store. The store operates on a cash basis.

Academic Policies, Practices, and Services

Academic Policies and Practices

Academic policies and practices are subject to change; the policies of this chapter are those authorized as of March 1, 1993. If there are subsequent changes that are effective for 1993-1995, insofar as possible, these will be announced in the student handbook, the *Pilot*; the changes made after publication of the *Pilot* are announced in the student newspaper, *The Voice*.

Student Responsibility

It is the responsibility of the student to know and observe the academic policies and regulations of the university, to confine registration to courses for which the prerequisites have been satisfied, and to meet the requirements for graduation.

In case of changes by the university in graduation curriculum requirements, degree students who attend without interruption may choose to satisfy either the requirements as they existed at the time of their entrance or the new requirements; if they elect to satisfy the new requirements, they are responsible for them in total.

Definition of Full-Time Student

An individual who is enrolled for a minimum of 12 semester hours is classified as a full-time student throughout the semester. One who is enrolled for fewer than 12 semester hours is a part-time student. Where the word "student" appears without clarification either by word or context in this catalog, full-time degree student is implied. Students should be aware that failure to maintain a certain number of semester hours per year may affect eligibility for financial aid, athletics, et al.

Scheduling Classes and Registration

Students enroll by scheduling classes, paying fees, and registering on the first day of each semester or summer session. The scheduling of classes is usually completed during the prior semester. Classes in progress for the current semester always constitute an obligation to the student. All scheduling procedures for the next semester shall not conflict with this obligation. The dates for scheduling and advisement are announced by the registrar. To schedule, students obtain a class schedule booklet, meet with their advisers, and enter their schedules directly at designated computer terminals.

Seniors schedule classes first, followed by juniors, sophomores, and freshmen. Fall freshmen have their schedules prepared in advance and are provided an opportunity for counseling and schedule changes during the orientation period.

All students are encouraged to complete English Composition I and II (or the equivalent) by the end of their sophomore year.

Students shall not be required to take part in cocurricular activities until after 3:30 p.m. Scheduled activities have precedence over unscheduled meets, practices, etc.

Students off-campus at the time of scheduling due to student teaching, internships, etc., will prepare their proposed schedule, which will be processed at the appointed time with those of their peers. These students mail their class scheduling form to the registrar.

Students are billed according to number of semester hours scheduled. (See the section on Admission, Financial Aid, Fees on page 30.)

Students must register in person on the first day of each semester or summer session according to the instructions for registration issued by the registrar. Special provisions for registration are available for non-degree students and part-time degree students. Students who do not register will have their class schedules dropped at the end of the first day of registration.

Students with unpaid fees, overdue library materials, and other obligations due the university will be denied scheduling and registration privileges.

Students with disabilities should contact the Office of the Registrar to make special arrangements for scheduling of classes and registration.

Schedule Changes A student may change his or her class schedule until one week prior to the start of the semester. In addition, schedule changes are permitted during the second, third, fourth, and fifth days of the semester and during the second and third class days of a summer session. No schedule changes are permitted after these times.

Late Registration

A student may register late until the close of business on the sixth day of the semester or the first Wednesday following a summer session registration. There is a special fee for late registration unless the student presents a medical excuse at the time of registration.

Semester Hour

A semester hour is ordinarily defined as the credit for one weekly period of 50 minutes in lecture, discussion, or recitation for one semester. In some cases, as in laboratory, studio, or internship, there may not be a one-to-one correspondence between experimental time and credit.

Residence Requirements At least 32 of the last 64 semester hours credited toward a bachelor's degree must be taken in residence at the university. Former Bloomsburg students who are certified for teaching by completing two or three years of college work and who are candidates for the Bachelor of Science in Education must complete at least one half of the remaining work for the degree program in residence. Residence credit is given for courses by Bloomsburg University for college credit.

Class Standing

A student has academic standing as a Freshman until he or she has 32 semester hours, as a Sophomore from 32 to 63 semester hours, as a junior from 64 to 95 semester hours, and as a senior after 96 or more semester hours of credit. Transfer credit, if any, is included in these figures.

For purposes of social and housing privileges and regulations, the definitions of class standing are as follows: freshman, to and including 29 semester hours; sophomore, 30 to 59 semester hours; junior, 60 to 89 semester hours; senior, 90 or more semester hours or 6 semesters as a full-time student.

Normal Load and Overload

The normal course load of a student in any semester is 16 semester hours. A student in good standing is limited to 18 semester hours, unless he or she receives permission for an overload by his or her academic adviser. A quality point average (QPA) of 3.0 or higher is required of the student before permission can be granted for an overload. If the QPA is less than 3.0, then approval of the department chairperson is required. (See the section on Admission, Financial Aid, Fees on page 30.)

A student who is making minimum progress toward academic good standing or who is on academic probation may schedule no more than 16 semester hours. (See the section on Academic Probation on page 64.) A student who has been reinstated upon appeal of academic dismissal is limited to scheduling 13 semester hours. (See the section on Appeals on page 65.)

Pass-Fail Policy

After attaining Sophomore standing, a degree student may elect credit courses on a pass-fail basis in accordance with the following rules:

- A maximum of two courses (totaling not more than 8 semester hours) may be included as part of the minimum graduation requirement of 128 semester hours.
- •No more than one pass-fail course may be taken in any one semester.
- A student may request to take a course on a pass-fail basis up until the close of the business day on the second Friday of the semester or on the first Wednesday of each summer session.
- Courses taken on a pass-fail basis must be free electives; no required courses may be taken as pass-fail. Required courses are those courses used to satisfy the requisites for a major (including required cognate courses) or a minor or to comply with General Education requirements. The student must complete all course requirements within the General Education area before selecting another course from that area for pass-fail.
- The instructor is not informed that the course is being taken on a pass-fail basis. Grades of A, B, C, D, or E are translated into grades of P or F, with the grade of P recorded for a grade of D or higher and the grade of F recorded for E. Grades of P and F do not enter the computation of a QPA.
- If subsequent to completion of a course on a pass-fail basis the student changes his/her major to one in which the original grade is required, the student may request that the chairperson of the academic department be notified of the actual letter grade earned.
- A student who has received a grade of E in a course may not take it later on a pass-fail basis.
- A student may revoke a decision to take a course on a pass-fail basis. The revocation must be completed by the close of the business day one week after the middle of the semester. This allows the pass-fail option to be used again.

Auditing of Courses

A full-time student who is enrolled for less than 17 hours of coursework may, with consent of the appropriate dean and subject to fees as stated in the section on *Fees* on page 48, register for one course as an auditor. If the registrant attends at least three-fourths of the regular class meetings a V will be reported by the instructor, and the course will be entered on the academic record without credit. No assignments are made to an auditor, and no papers or examinations are accepted by the instructor for grading or recording either during the period of enrollment or subsequent thereto. An auditor may not participate in laboratory or studio work if such work is part of the course audited.

A part-time student may register as an auditor subject to the provision that when computing the fee paid by the student, the course audited will be counted the same as if it were taken for credit. Individuals who are not enrolled as students may apply for audit privileges through the dean of the School of Extended Programs. Acceptance depends upon such factors as space in class and educational background.

Credit by Examination

A student may petition for the privilege of establishing credit in a course or courses listed in the *Undergraduate Catalog* through a comprehensive examination instead of through registration and class attendance. The following regulations govern this provision:

- The student must present evidence of adequate experience with the course content, either through experience other than college attendance or through independent study of the course content.
- A student may not petition for an examination in a course she/ he has audited or in a course for which a failing grade has been recorded.
- The student must present evidence of equivalent experience if the course involves laboratory or studio work.
- The student's petition must be approved sequentially by the chairperson of the department and the dean of the college in which the course is offered.

An examination committee must be appointed by the department chairperson and approved by the dean of the college. Unless the course is an advanced course which is taught by only one member of the faculty, the examination committee must include at least two faculty members.

The examination must cover the course syllabus in a comprehensive manner. Suitable standardized examinations may be used. The examination must be written or, if oral, subject to transcription. Where a skill, such as typing or shorthand, is a course requirement, the written and oral aspects must be supplemented by demonstration of skill. All papers must be filed in the department office for three years from the date of graduation.

If the student passes the examination, a grade of P is assigned for the course. If the student fails, no record is made. The course does not count in the student's normal quota of pass-fail courses.

A recording fee of \$30 is charged for courses challenged by institutional examination taken for credit regardless of the number of credits awarded for that course. Upon receipt of approval, this fee is payable at

the Business Office. Evidence of payment must be presented to the department before the examination can be administered.

Suitable adaptations of the above procedures may be used to validate transfer courses taken in nonaccredited colleges. No fee is charged for an examination to validate such credit. Examinations may be based upon the syllabi of the courses taken at the previous institution or, in case the student wishes to establish equivalency with courses at the university, upon the syllabi of courses offered in this institution.

Graduate Courses in the Senior Year Seniors needing fewer than 18 semester hours of coursework to satisfy requirements for a baccalaureate degree may, with approval of a department chairperson, apply to the assistant vice president for graduate studies and research in the School of Graduate Studies for permission to supplement undergraduate courses with graduate courses. Credit for graduate courses is awarded upon verification of completion of the student's undergraduate degree.

Class Attendance Policy

Regular classroom attendance is expected of all students. A student will be afforded reasonable assistance by a faculty member when coursework is missed for such reasons as:

- Personal illness,
- Death or critical illness in the immediate family,
- •Participation in a university-sponsored cocurricular activity. In the latter instance, mutually satisfactory arrangements for assistance must be made by the student when the activity is announced.

The instructor is not required to provide make-up examinations or to review class work missed as a result of unauthorized absences.

A faculty member with departmental approval may adopt a reasonable, alternative policy if class members are provided that policy in writing during the first week of classes.

Course Requirements and Progress Reporting In the first week of classes each semester, teaching faculty will distribute to their students a written course profile containing the following minimal information:

- Requirements for achieving each letter grade,
- Any relationship of class attendance to the course,
- Any other course requirements,
- Weighted averages of requirements for computation of a grade,
- Procedures for making up tests or other work missed due to an excused absence.
- Grade Posting Policy In the event grades are to be posted, each student has the opportunity to request in writing that his or her grade not be posted. If a student does not make the request, the instructor may assume that permission for posting is granted.

At any time during the semester, teaching faculty shall be prepared to inform students of their academic progress should the student request this.

Recording Grades

At the end of a semester or summer session, the final grade for each course is recorded on the student's permanent record; a copy of the semester's grades is sent to the student's home address or another address designated by the student. Midsemester grades of D and E are reported to degree students with 32 and fewer semester hours earned. These grades are not permanently recorded.

Definition of Grades

Grades given at Bloomsburg University are defined as follows:

- A Excellent
- B Above Average
- C Average
- D Minimum Passing Grade
- E Failure
- I Incomplete is a temporary grade given only when an instructor believes a student has been unable to complete course requirements due to circumstances beyond his/her control. Failure of a student to take the final examination or complete other course requirements without prior arrangement with the instructor for a legitimate excuse is not justification for a grade of I.

When an instructor submits a grade of I to the registrar, it must be accompanied by a formal, written plan for the student to complete the course requirements and the appropriate letter grade that would be assigned if the plan were not completed by the student in the time specified. The plan for the student to complete the course requirements shall be drawn up by the instructor with the acceptance of the student. Unless specifically stated in the written plan to the contrary, it is assumed that work will be completed prior to the end of the next regular semester. When the plan has been completed by the student, the instructor will recalculate the grade to be assigned for the course and submit this new grade to the registrar according to established procedures.

A request for an extension of time to complete course requirements must be initiated by the student prior to the deadline of the plan on file in the Office of the Registrar. The student must present suitable documentation to the instructor indicating that circumstances above and beyond her/his control persist or new circumstances of that nature have developed. An extension of time will be granted only upon approval of the instructor and the dean of the appropriate college.

- P Passed This grade is recorded when a student takes a course on a pass-fail basis and does work which would lead to a grade of D or higher. The grade of P also is recorded when a course is passed by proficiency examination and when a student receives a pass-ing grade in a noncredit course or cocurricular activity such as varsity sports, musical ensembles, theater, and forensics.
- F Failed This grade is recorded when a student takes a course on a pass-fail basis and does work which would lead to a grade of E.

The grade of F also is recorded when a student receives a failing grade in a noncredit course for a cocurricular activity.

- R Research This grade is assigned by the instructor only when a student has been unable to complete a research component of a course because the length of time for the research exceeds the end of semester and when a formal plan for completion of the research is filed with the instructor and the chairperson. Provisions for removal of the grade are the same as those for the grade of I. The instructor must submit the grade of R to the registrar along with the formal plan for completion of the research and the grade to be assigned to the student if the research is not completed satisfactorily in the time period stipulated. The plan for the student to complete the research shall be drawn up by the instructor with the acceptance of the student. Unless specifically stated in the written plan to the contrary, it is assumed that the work will be completed prior to the end of the next regular semester. When the student has completed the plan, the instructor shall recalculate the grade to be assigned for the course and submit this new grade to the registrar according to established procedures.
- V Audit (See the section on Auditing of Courses on page 57.)
- X No Grade Reported When a grade of X is recorded, the provisions for determining academic honors, good standing, minimal progress, and satisfactory progress are not applied until the grade of X is removed.
- W Withdrawn (See the sections on Course Withdrawal and Withdrawal from the University on page 61.)

Quality Points

Quality point values are assigned as follows:

Grade	Quality Value Points
A	4
В	3
С	2
D	1
Е	0

Quality Point Average (QPA) The Quality Point Average (QPA) is computed from the academic record of courses taken at Bloomsburg University in which grades of A, B, C, D, and E were earned. The computation is executed by multiplying the number of semester hours for each course by the number of quality points for the grade in the course and adding the products, then dividing the sum obtained in the first step by the total number of semester hours represented by the courses.

A "semester QPA" is computed by including only the courses of a single semester. The "cumulative QPA" is computed by including all courses taken to date at Bloomsburg University. If a course is successfully

repeated at another accredited institution of higher education, the credits for a grade of D or E and the quality points for the D at Bloomsburg are deleted from the computation.

Change of Grade

After a grade of A, B, C, D, or E has been reported to the Registrar's Office, it may be changed only through the grievance process or to correct a computational or clerical error. A recommendation for change of grade due to a computational or clerical error must be made in writing by the instructor and approved by the department chairperson and the dean of the appropriate college. When a grade of I and R is changed, only the approval of the department chairperson is required.

Course Repeat Policy

A maximum of four courses (not more than 14 semester hours) in which grades of D or E have been recorded may be repeated. The initial grade remains on the transcript and is part of the student's permanent record. Quality points are awarded for the grade of the repeated course only. The grade of the repeated course is part of the permanent record and is used to calculate the student's quality point average. Multiple repeats of the same course are considered as one repeat. A course taken at the university in which a grade of D or E has been earned and repeated at another accredited institution of higher education is included in the permitted maximum number of repeats.

Withdrawal from a Course

Any student except a first semester freshman may drop a course during the schedule change period (the first five days of the semester). When a course is dropped, it is removed from the student's schedule entirely. However, a student may not add a course except under circumstances noted in the sections pertaining to registration and scheduling . After the schedule change period and continuing until one week past the middle of the semester, if a student withdraws from a course a grade of W will be recorded. As a means of notification to the instructor of the intent to withdraw, a student is required to obtain the instructor's signature on a withdrawal form.

No withdrawals will be permitted after the close of the business day one week after the middle day of the semester.

Prior to the last week of classes, in exceptional circumstances and for compelling and justified reasons, the dean of the college in which the course is being taught may waive these restrictions.

A limit of four withdrawals during the degree program shall apply. Withdrawal from the university is an exception.

Withdrawal from the University

A student may withdraw from the university by completing a withdrawal form at the Office of the Registrar, Room 6, Ben Franklin Hall. Students withdrawing in absentia must submit a written request to the registrar.

When students withdraw during a semester, the grade of W is recorded for each of the courses on the student's schedule if the withdrawal occurs prior to the beginning of the final examination period. Students may not withdraw during the final examination period.

The effective date of an official withdrawal is the date on which the student signs an official withdrawal form in the Registrar's Office or the date on which the written request is received by the registrar for a student withdrawing in absentia.

Students failing to register for the next semester are classified as withdrawn and must apply for readmission. Nondegree students may continue to register without readmission provided their next registration is within four semesters of their last enrollment.

An individual who discontinues attendance without clearing all obligations to the university waives the right to a transcript and future readmission until all obligations are cleared.

Policies which cover reimbursements are stated in the subsection on Miscellaneous Fees on page 51.

In addition to withdrawing from the university, students may be absent for extended periods of time. The categories include:

Temporary Withdrawal/Leave of Absence is granted by the Admissions Office after a student completes the withdrawal procedures and when he/she files a temporary withdrawal/leave of absence form with the Admissions Office. (Refer to to the section on Temporary Withdrawal/Leave of Absence on page 35.)

Clinical Experience absence is authorized by the registrar when a student is participating in the clinical year(s) of the medical technology and radiological technology programs. Students in this category are not charged fees by the university during the time of their clinical experience at a cooperating hospital.

Study Abroad absence is authorized by the registrar when a student is participating in a university-sanctioned exchange program with a cooperating university abroad. The student may be charged fees in accordance with the agreement with the cooperating university.

Completing Degree Elsewhere absence is authorized by the registrar when a student receives permission from his or her adviser and department chairperson to complete course requirements at an approved institution other than Bloomsburg University.

Mandatory Leave is recorded by the registrar when a student is required to leave the university due to medical and/or psychological reasons or is suspended.

Evaluation of Transfer Credits College-level courses completed at a two or four-year college or university accredited by one of the regional accrediting associations in which grades of C or higher were earned are usually transferred for a degree student. A course in which a grade of D was earned transfers only if the overall QPA at the school where the coursework was completed is 2.0 or better on a 4.0 system. In either case, courses transfer; grades, quality points, and QPAs do not transfer. Transfer credits will be deleted if a student subsequently registers for courses which substantially duplicate the content of courses accepted in transfer.

A student applying to transfer courses must fulfill the provisions of the sections on *Residence Requirements* on page 55 and *Graduation Requirements* on page 65.

When substitution of transfer credit for a required course is in question because the course was taken at an unaccredited institution or

because the description or standards of the course are unclear, a student is entitled to an opportunity to validate the course by examination. When they are available, standardized examinations are used. (See the section on *Credit by Examination* on page 57.)

Correspondence courses, the total of which does not exceed 15 semester hours, are subject to acceptance. The courses must be from a college or university accredited by one of the regional accrediting associations and offered within a baccalaureate degree curriculum.

Courses taken at another institution on a pass-fail basis are acceptable if they conform to the conditions for such grades at Bloomsburg.

Credits from other institutions accredited by one of the regional accrediting associations earned by a Bloomsburg degree student will transfer provided approvals are obtained first from the student's adviser and department chairperson. An approval form can be obtained from the registrar. Upon completion of a course, it is the student's responsibility to provide the registrar with an official transcript. Course evaluations by department chairpersons must be secured before the registrar can record courses and credits on the student's academic record.

Evaluation of credit earned at other institutions by transfer students and by readmitted students who earned credit subsequent to their prior enrollment at Bloomsburg is made in the Admissions Office with guidelines provided by a department chairperson, cooperatively established by a college dean. A transfer student is issued an evaluation sheet that stipulates the requirements for graduation which remain to be met. This is subject to revision in the light of subsequent changes in the evaluation of the transcript.

Academic Good Standing A student whose record at any final grading period shows a cumulative QPA of 2.00 or better is considered in academic good standing. (There are three final grading periods, fall semester, spring semester, and the total summer session.)

Satisfactory Progress

Satisfactory progress is evaluated on the basis of two criteria:

- A student's ability to earn a minimum of semester hours;
- A student's ability to maintain a minimum QPA at the conclusion of each grading period.

Full-time, continuously enrolled undergraduate degree students, in order to maintain satisfactory progress toward the completion of a degree, must earn a minimum of 24 semester hours in any given 12-month period (including semester hours earned in developmental studies courses).

Part-time undergraduate degree students, in order to maintain satisisfactory progress within any 12-month period, must earn half of all semester hours attempted for up to 8 semester hours; two-thirds of all credit hours attempted for 9 or more semester hours.

Note: Hours earned for a repeated undergraduate course are not counted twice.

To maintain satisfactory progress, a student must meet the following minimal requirements:

Total Semester Hours Earned	Cumulative QPA
(Includes grades of P	Required for
and transfer credits)	Minimal Progress
1-16 semester hours	1.25-1.99
17-32 semester hours	1.65-1.99
33-48 semester hours	1.85-1.99
49-64 semester hours	1.95-1.99
65 or more semester hours	2.00

A student, while making minimal progress toward academic good standing, may schedule no more than 16 semester hours.

Dean's List

A full-time degree student whose semester QPA is 3.5 or higher in 12 or more semester hours of coursework will be named to the dean's list for that semester. Grades of P or F do not enter the computation of a student's QPA.

Academic Probation

An undergraduate student in one of the following categories is permitted to attend the university on academic probation for one additional final grading period (*semester/summer*) but limited to 16 semester hours:

- An entering freshman whose QPA at the end of his/her first final grade period is at least 1.00 but less than 1.25;
- A transfer student whose QPA at her/his first final grading period is less than, but within 0.25 of the cumulative QPA required for minimal progress;
- A student who has been meeting the requirement for at least two consecutive grading periods immediately prior to a grading period in which his/her cumulative QPA drops below but within 0.1 of the cumulative QPA required for minimal progress;
- A full-time freshman or transfer student who was making minimal progress toward good standing at the end of the second grading period is below but within 0.1 of that required for minimal progress toward good standing;
- A readmitted student who was formerly dismissed for academic deficiency who at the close of the first grading period has not regained minimal academic progress or good standing;
- A full-time student who failed to earn 24 semester hours within one 12-month period;
- A part-time student who failed to earn the minimum number of semester hours as prescribed above within the given semester.

Academic Dismissal

A student who at any final grading period is not in good standing, making minimal progress toward good standing, or qualified to attend for a semester on academic probation is excluded from registration, and his/her record is marked "academic dismissal." A student may be placed on "academic dismissal" without first being placed on academic probation.

A student under "academic dismissal" is ineligible to attend any

courses offered for a period of at least one calendar year. Readmission regulations are stated in the section on *Readmission* on page 34.

Students failing to meet the minimal requirements of earned credit hours and/or QPA will be notified by the Office of the Registrar.

Appeals

A student under "academic dismissal" may petition the Academic Review Board for reinstatement. If reinstatement is granted, the conditions of reinstatement are indicated including an enrollment limit of 13 semester hours for a specified period of time. The student's record also is marked "committee reinstated." If the student does not attain good standing or is not making minimal progress toward academic good standing by the end of the period granted by the conditions of reinstatement, he or she is excluded from further registration, and her/his record is again marked "academic dismissal."

If the student elects to attend the summer sessions immediately following reinstatement for a spring semester dismissal, then the entire summer session is considered the next grading period for which the student must attain minimal progress toward good academic standing or good academic standing.

Petitions to the Academic Review Board *must be in writing* and must be received by the chairperson of the Academic Review Board within 48 hours of receipt of official notification of dismissal.

The Academic Review Board is comprised of the deans of Arts and Sciences, Business, and Professional Studies; director of admissions and records, dean of the School of Extended Programs; coordinator of Academic Advisement; registrar; director of the Center for Counseling and Human Development; and a representative of the vice president for student life. At the initiative of either the applicant or the Academic Review Board, the student's adviser may be invited to participate as a voting member in the consideration of the case.

In its evaluation of a petition for reinstatement, the board is charged to consider the degree to which external factors beyond the student's control temporarily prevented optimum academic achievement; the likelihood that these or similar factors would not recur if reinstatement were granted; the likelihood that the student, if reinstated, could complete his or her curriculum successfully within a reasonable extension of the normal four-year period; and an evaluation of the plan for attaining good standing proposed by the student. A decision of the Academic Review Board is final and not subject to review.

Graduation Requirements

Graduation requires the successful completion of at least 128 semester hours to include completion of the curriculum of an approved major program, completion of General Education requirements, and an average of 2.0 in all courses required by the major program and a cumulative QPA of at least a 2.0. The student must make a formal application for graduation at the Office of the Registrar in Ben Franklin Hall by the deadlines announced periodically in the class schedule.

The last 64 semester hours of credit toward graduation must be in courses taken in a four-year, degree-granting institution accredited by one of the regional accrediting associations. At least 32 of the last 64

semester hours credited toward a baccalaureate degree must be Bloomsburg University courses. Exceptions to this policy will be made only by a college dean with the recommendation of the appropriate department chairperson. All financial obligations to the university must have been cleared.

Honors

The Latin designations summa cum laude, magna cum laude, and cum laude are used to identify honor graduates.

- Graduating seniors having cumulative QPAs between 3.95 and 4.00 are designated summa cum laude.
- All those graduating seniors having cumulative QPAs between 3.75 and 3.94 are designated as magna cum laude.
- All those graduating seniors having cumulative QPAs between 3.50 and 3.74 are designated as *cum laude*.

Honors for recognition at the commencement ceremony will be as of the last previous semester, while honors for transcripts and diplomas will be as of the end of the final semester.

A student must have completed 48 semester hours in residence at Bloomsburg University in order to be considered for academic honors at commencement.

Multiple Degrees

A student can be awarded only one baccalaureate degree at a time. The degree to be awarded must be selected prior to the last semester. A student completing an additional major in another degree program will have the fact noted on her or his transcript.

Associate Degree

Except as provided otherwise in this section, all of the preceding academic policies and practices apply to the associate degree. With respect to advanced placement, pass-fail, repeating courses, course withdrawal, and residence requirement, the policy is limited to 50 percent of the number of courses or credits indicated.

Academic Examination Policy

- Faculty shall give examinations during the regularly scheduled classes of the semester. The faculty are responsible for determining the length, frequency, form, and content of all examinations within the guidelines listed below. Final examinations shall be given where applicable only during the designated final examination week after the end of regularly scheduled classes and only at the designated time and place according to the final examination schedule.
- Faculty will distribute in writing the requirements for each course within the first week of each academic term. In these requirements, final examinations shall be worth no less than 20 percent nor more than 40 percent of the course grade. No single exam, paper, project, or assignment shall have greater emphasis than the final examination. As a result of this condition, every course must use at least three evaluations for grading purposes.
- Faculty will give final examinations, which are comprehensive in design, emphasizing subject matter presented over the entire term.
- Faculty will return and/or permit students to review all unit tests,

quizzes, and other types of evaluations by the last regularly scheduled class in the term. In order to prevent an excessive build-up in the number of unit tests for each student during the last week of classes, faculty are advised to refrain from testing during that week. A final examination schedule shall be prepared by the Registrar's Office with consultation of the faculty, if necessary, and approved by the provost and vice president for academic affairs. Regularly scheduled final examination periods will be 120 minutes in length. Part of the final examination week will include at least a one-day interval between the last full day of classes and the first day of scheduled examinations. This time will be designated as the reading period.

Scheduling Restrictions for Examinations

The following restrictions are imposed on the scheduling of activities during final examination week:

- Faculty are not required to be available to students for conferences during final examination week.
- No examinations will be scheduled during the reading period unless approved by the provost and vice president for academic affairs.
- No extracurricular activities or faculty-administrative activities shall be scheduled except with the consent of the individuals involved.
- The Andruss Library will remain open, and other designated study areas will be made available during the final examination period with expanded hours when possible.
- No student shall be required to take more than two final examinations in one day. If the student has a scheduling conflict during the final examination period resulting in an excessive number of final examinations scheduled for one day, the following procedure for rescheduling the final examination shall apply and be completed by at least two weeks before the end of regularly scheduled classes. The student should select two of the scheduled examinations to be taken during the designated time according to the following priority of choice:
 - 1. Courses offered by the major department,
 - 2. Additional required courses in the major program,
 - 3. Other courses.

Procedures for Scheduling Examinations

Any exceptions to any of the scheduling restrictions cited above must be made on the basis of the following procedures:

- In case of noncompliance with the provisions of this policy, the student has the recourse of proper grievance procedures as established by the university.
- During summer sessions, the last class period of each course shall be designated as the final examination period with the time period for the examination not to exceed 80 minutes unless the arrangements have been made in advance so that they can be announced at the first meeting of the class. Except in unusual circumstances, classes in six-week sessions shall have the final examination on the

last day of the course. Final examinations for courses scheduled in three-week sessions shall be held during the last of the two class periods scheduled for the last day. Classes in the nine-week sessions shall hold final examinations on the last scheduled class day with the period extended to 80 minutes for that class.

- Faculty who wish to schedule quizzes, tests, or examinations at times other than during their regularly scheduled class periods during the term may do so only if a make-up opportunity is made available to students. This opportunity must be scheduled at a time mutually acceptable to both student and faculty and may not conflict with the student's other scheduled classes. A faculty member shall not give an examination at a time other than during a regularly scheduled class period unless approval is first obtained from the majority of the faculty members of his/her academic department. Except for abnormal circumstances, this approval should be granted by the end of the first week of classes. Notification of this alternative arrangement shall be given to the appropriate college dean.
- A faculty member who believes that the content of her or his course does not lend itself to a scheduled examination must obtain approval for an alternative arrangement from the majority of the members of his or her academic department and college dean. Notification of the approved arrangement shall be given to the Office of the Registrar. Except for abnormal circumstances, the approval and notification shall be made by the end of the first week of classes.
- To change the requirement specifying that final examinations shall be worth no less than 20 percent nor more than 40 percent of the course grade, there must be agreement for the change by the faculty member(s) in charge of the class, a majority of the members of his or her academic department, and the appropriate college dean. Except for abnormal circumstances, the approval and notification to students will be made by the end of the first week of classes. If approved, the change may remain in effect for the faculty member for the duration of this policy or until the course is resubmitted to the curriculum committee.
- In order to change the time and place scheduled for a final examination, there must be agreement for the change by the faculty members(s) in charge of the class, 100 percent of the students in the class, and the appropriate college dean. This change must be made by the middle of the semester.

Student opinion in this matter will be determined by secret ballot with the faculty member in charge of the vote. If for some reason a change is made in the time and date of a final examination that results in a student conflict, the faculty member will arrange to provide a make-up opportunity during the examination period.

• The additional final examination(s) should be rescheduled with consultation of the relevant faculty on a mutually convenient time. Assistance in the rescheduling of examinations may come from such individuals as the student's adviser, department chair-

person, or academic dean.

• Unless returned to the student, all graded final examinations must be available for student review for at least the next full semester following the final examination.

Academic Integrity Policy and Procedures **Policy**—Bloomsburg University students are expected to be honest in all their academic work; this means they will not engage in any of the following acts:

- Cheating on examinations including nonauthorized use of books or notes, use of crib sheets, copying from other student's papers, exchanging information with another student orally or by signals, obtaining a copy of the examination illegally, and other similar activities.
- Plagiarism in term papers, themes, essays, reports, take-home examinations, etc. (To plagiarize is to steal or use without acknowledgment the ideas, words, formulas, computer programs, etc. of another person.)
- Falsifications including forging signatures, altering answers after they have been graded, insertion of answers after the fact, erasure of a grader's marking, etc.

A student found guilty of academic dishonesty may be subjected to a full range of penalties from reprimand to expulsion from the university.

Procedures—A faculty member who believes that a student has violated the academic integrity policy should use the following procedures to resolve the matter.

- Reprimand the student orally or in writing.
 A faculty member also is authorized to assign a zero in the work tainted by the academic dishonesty and/or assign the grade of E for the entire course (A student may file a grievance against this action.); and/or
- File a written complaint against the student with the Student-Faculty Judicial Board. The complaint must describe academic dishonesty that is alleged to have taken place and must request that the matter be shared by the board.

All subsequent procedures shall follow those of the judicial system.

Change of Area of Study (Major) A student who wishes to change from one area of study to another must file a request to do so in the Office of Academic Advisement.

Permission to enter the new area of study may require the written approval of the department chairperson in which it is offered. In this case, approval may depend upon such factors as overall grade point average, available space, and recommendations from departmental committees.

It also must be done by the student and while school is in session. In addition to the first major, which is the minimum required to graduate, a student also may declare a second major, a minor, a career concentration, or an advisement area. Any combination is allowed as long as the student understands it may require additional time and/or

credits to complete. The final verification of the completion of any of the above is provided by the department(s) or area(s) involved.

Diagnostic Testing Program Policy This policy applies to testing that is not a part of the admissions procedure or course requirements. The coordinator of academic advisement uses diagnostic test results to assist with course placement.

Students will be selected for diagnostic testing based upon their predicted freshman year grade point average or performance in courses at Bloomsburg University. A predicted freshman year QPA is calculated for each new freshman at the time of application to the university. New students with a predicted QPA less than 2.5 will be given diagnostic test(s). Students whose college QPA falls below 2.0 will be considered for diagnostic testing based upon their circumstances. The specific area(s) of diagnostic testing will be determined by the pattern of SAT scores and either high school or college achievement. Students selectively low in one of the admission testing areas (e.g., below SAT math of 450, SAT verbal of 430, or Test of Standard Written English of 43) will have diagnostic testing in areas which are selectively weak.

Results of these tests will be released to faculty and staff on a need-to-know basis only for diagnostic evaluation and remediation of the individual tested and/or evaluation of the testing program. This information will be released with appropriate interpretation to students and to other agencies as the student permits. These data may be released without student permission for research purposes with student anonymity assured.

Donanding o

Depending on the results of the review of the record and the diagnostic evaluation, an individual program may be provided.

If a student is identified and placed in a developmental course(s), the course(s) is considered a prerequisite before additional courses for credit can be taken in the corresponding area. Each student will be provided with a letter indicating course placement or the recommended resources available to assist them, such as tutorial services, tutorial labs, and the College Study Skills courses. Such developmental programs will be provided for a maximum of students within the budgetary limits of the university.

Student Outcomes Assessment The university is committed to the continuous improvement of its programs and services. In an on-going effort to monitor the quality and effectiveness of these programs and services, the university routinely conducts campus-based studies of student attitudes, student achievement, student satisfaction, and personal, professional and career development. These studies are grouped under the heading of student outcomes assessment. Participation in outcomes assessment activities is expected of all students. While every student is not selected for participation in every activity, it is likely that an individual student will be involved in one or more assessment activities during the college years. It is only through cooperative participation in the assessment process that the university can better understand itself and better serve its students.

Academic Support Services

Academic Support Services encompasses Academic Advisement, Tutorial/504 Services, International Education, the Department of Developmental Instruction, Act 101/EOP (see page 160), Upward Bound, and Student Support Services. The freshman year program and the university seminar course for new students are under the direction of Academic Support Services. Additional responsibilities include management of the university's preforming arts facilities and leadership for the Celebrity Arts Series, Provost's Lecture Series and the Community Arts Council.

The goals of this area are to provide academic services and courses of study which enable students to achieve academic success and to broaden the entire university community's cultural and intellectual horizons by bringing acclaimed performing artists, ensembles and lecturers to campus.

Academic Advisement

Incoming students, who indicate and are offered admission to their preferred curriculum, are assigned to faculty advisers who specialize in advisement in these areas. Assignments to advisers are made by the coordinator of academic advisement with advice of department chairperson and deans.

Applicants for admission who are undecided about their curriculum state *undeclared* on the application instead of specifying a curriculum. These applicants are considered general studies students and will declare a specific major at the appropriate time. These students are advised or assigned to advisers by the coordinator for academic advisement.

Students with questions or problems should seek assistance from the Office of Academic Advisement, Room 12, Ben Franklin Hall (717) 389-4271.

Tutorial/504 Services

The Office of Tutorial/504 Services offers a wide range of services designed to support and enhance the performance of university students. Peer tutoring is available upon request in a variety of courses and is provided by students who have distinguished themselves by superior academic performance. Any student wanting tutorial service need only to complete a brief application in order to obtain this free service.

Services available through the 504 function seek to assist those students who bring special needs to the university. Interpreters, note-takers, and readers are just a few examples of the services available.

The office also serves as an advocate on issues of accommodation beyond the classroom and acts as liaison with various other campus offices. The office regularly contacts the state offices of Vocational Rehabilitation and Visual Services to ensure that students are receiving adequate support from both the university and other agencies. Candidates for admission to the university are encouraged to contact the

office in conjunction with a visit to the Office of Admissions. The Office of Tutorial/504 Services is interested in providing prospective students with a clear and comprehensive discussion of what will be available to them should they decide to enroll at the university.

International Education

The international education program advises international students and coordinates university-wide efforts to provide study, research, and teaching abroad opportunities for students and faculty. Participants experience a gamut of new cultural experiences that inspire fresh perspectives on various relationships. Opportunities are provided to study for a semester, an academic year, or a summer at a foreign institution. In recent years, Bloomsburg students have spent part of their undergraduate years in Scotland, England, Ireland, The Netherlands, France, Germany, Italy, Austria, Russia, Spain, Nigeria, Mexico, Ecuador, Brazil, Japan, China, and India.

Education majors have the opportunity to complete their student teaching in a foreign country, while adding an international dimension to their professional development.

The Office of International Education is located in Lower Luzerne Residence Hall.

Upward Bound

The university presents the opportunity for eighth, ninth, and tenth graders from affiliated high schools to enroll in its Upward Bound program. Participation may continue through the summer after high school graduation. The program, open to students meeting certain academic and financial requirements, is geared to promote self-confidence and to make students better informed and, thus, better prepared for life beyond high school. Upward Bound's ultimate goal for its students is completion of higher education.

The program consists of two parts. In the first segment, students spend two hours a week at their own high schools involved in academic experiences which supplement their regular scholastic program and improve their academic performance. The programs's counseling service provides close individual contact for discussing career, vocational, and personal interests within the high school setting. The second component of Upward Bound is a six-week summer residential experience on the Bloomsburg University campus. This segment provides concentrated academic work plus planned recreational, social, and cultural experiences, both on and off the campus.

Student Support Services

Student Support Services is a federally funded program housed at Bloomsburg University. It is designed to provide students with academic support, as well as career and academic advisement. The program offers information and referrals in such areas as financial aid, career/graduate school selection, and personal counseling. Additionally, the program provides cultural, social, and personal enrichment through a variety of planned activities.

The nucleus of the program, however, is academic. Its offerings include professional tutorial services with assistance from master tutor

who hold advanced degrees in their respective fields. The tutors are familiar with the curricula as well as course requirements at the university and can provide invaluable assistance to program participants.

General assistance is provided for correcting deficiencies, answering questions, clarifying concepts, reviewing materials, and preparing for rests

Participants are selected from a varied pool of applicants. This pool includes summer and fall freshmen, nontraditional students, and first generation college students, in addition to students who need academic and/or economic support.

The Student Support Services Office is in Room 13, Ben Franklin Center. For more information, call (717) 389-4278.

Freshman Year Program

The freshman year program provides a myriad of services to new students during the academic year. Freshmen, who are in need of academic assistance, are advised to contact the Office of the Dean of Academic Support Services located in Luzerne Hall.

A one-credit elective university seminar course, offered on an ongoing basis, is designed to assist freshmen in making a smooth transition to their college experience. For a course description of 09.100 University Seminar, see page 221.

Celebrity Artist Series

Numerous diverse cultural attractions are brought to the university campus each year. The Celebrity Artist Series features notable performing artists and groups — symphony orchestras, musical troupes, dance companies, and popular personalities. The series is sponsored by the Community Arts Council, which is comprised equally of faculty members, students, and community representatives. Faculty, staff, and students who have paid a Community Activities fee are provided seating on a limited basis. A subscription plan is available for preferred seating and may be obtained from the Office of Academic Support Services located in Luzerne Hall.

Provost Lecture Series

The Provost Lecture Series series provides a public forum for the university, as well as surrounding communities, to share the fruits of learning. Scholars, executives, journalists, and professionals from various walks of life are invited to campus to speak about academic issues and special topics of interest. Faculty members often encourage students to attend events related to their discipline. The events are free and open to the public.

Student Life and Services

Students are encouraged to become involved in extracurricular organizations and activities in order to maximize their personal growth and development, academically, emotionally, and socially.

Commuting students are urged to arrange their travel schedules to permit them to participate in the varied activities and to spend as much time as possible on campus. The educational value of the many services provided depends upon the effort put forth by the individual student to become involved.

University Policy

"Bloomsburg University of Pennsylvania exists for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgement and to engage in a sustained and independent search for truth."

This statement, quoted from the "Joint Statement on Rights, Freedoms, and Responsibilities of Students," has been acknowledged as a guiding principle in the normal operation of the institution. Students are responsible for understanding and abiding by the university's rules, policies, and regulations as stated in university publications, the *Undergraduate Catalog*, the *Residence Hall Handbook*, the *Montgomery Place Apartments Handbook* and in the student publication, the *Pilot*.

On-Campus Housing

Seven modern residence halls and an apartment complex comprise the university's on-campus residences accommodating a total of approximately 2,680 students. These facilities are described in the section on *Buildings and Facilities* on page 100.

Although students' housing preferences are considered whenever possible, the university reserves the right to alter the composition of residence halls.

Housing and food services are provided on a combined basis only for students living in the residence halls. Students living in the Montgomery Place Apartments have the option of a meal plan. Housing and food service agreements are binding for a specified period and may not be transferred or reassigned.

Freshmen under 21 years of age are required to live on campus or to commute from their parent's residence. If extenuating circumstances justify other housing arrangements, a written request for waiver of this residency requirement must be submitted to the director of Residence Life, ground floor, Elwell Residence Hall, Bloomsburg University, Bloomsburg, PA 17815.

Transfer students, upon acceptance to the university and payment of the admissions fee, are eligible for on-campus housing on a space available basis, but married students and/or students with families whose housing needs are atypical are not eligible.

Students must participate in an assignment process for housing on upper and lower campus in order to reserve a room for the following academic year. Eligibility requirements are subject to revision in response to fluctuations in enrollment figures and student demand for oncampus accommodations.

Details about residence hall rules and regulations are printed in the Pilot, the Residence Hall Handbook, the Montgomery Place Apartments Handbook, and the Residence Hall and Montgomery Place Apartments Terms and Agreements. Further information concerning on-campus or off-campus housing may be obtained by contacting the Residence Life Office at (717) 389-4089.

Off-Campus Residency All off-campus residences are privately owned and operated and are considered "independent" student housing. The university does not approve or recommend residences. Student off-campus residences are subject to periodic inspection by officials of the Town of Bloomsburg, and dwellings with four or more tenants must meet the standards of the Pennsylvania Department of Labor and Industry.

Although students must rely on their own initiative to find suitable accommodations, the Residence Life Office collects data on off-campus housing opportunities, prepares housing and landlord directories, and provides other useful information of interest to student tenants and their landlords. Before any rental property in the Town of Bloomsburg is accepted for listing in the university housing directory, the owner must submit the premises to an inspection by the town Code Enforcement Office and sign a statement pledging to provide equal opportunity in the rental of the property.

Because the university does not assign students to off-campus residences, negotiations are the sole responsibility of students and their landlords. The Residence Life Office will advise students on methods of solving such problems, and, if deemed appropriate, residence life personnel will mediate student-landlord disputes, but only on an informal, nonlegal basis.

Students planning to live off campus should have a clear understanding of their rights and responsibilities as tenants. Copies of model leases, apartment inventory checklists, departure notices, and town street maps are available to students. Upon request, residence life personnel will help student renters conduct pre and post-occupancy inventories of their apartments. Off-campus students are advised to obtain insurance coverage for their belongings since most landlords do not assume liability for the loss of, or damage to, their tenants' personal property.

Students residing off-campus bear a dual responsibility as citizens of the Town of Bloomsburg and as members of the university community. The university cannot provide sanctuary from the law nor can it be indifferent to its reputation in the community it serves.

Community Government Association All full-time and part-time undergraduate students who have paid the Community Activities Fee are members of the Community Government Association (CGA). Graduate students, faculty, and staff members who have paid a Community Activities Fee also are members.

Student Senate meetings are held every other Monday evening. The executive council, which consists of the officers and two senators, meets on alternate Monday evenings.

Student Organizations and Activities

Students are encouraged to take part in at least one extracurricular activity per semester.

Accounting Club

Adult Health Majors Club

Alpha Epsilon Rho

American Chemical Society

American Marketing Association

Amnesty International

Anthropology Club

Army ROTC

Association for Childhood Education International

Association of Hispanic Students

Association of Public Relations Students (APRS)

Bangladeshi Student Association

Bicycle Club

Biology Club

Black Cultural Society

Bloomsburg Association of Hearing Impaired

Bloomsburg Fencing Club

Bloomsburg Literary Journal

Bloomsburg Players

Bloomsburg Student Concert Committee

Bloomsburg Ultimate Disk Club

Bloomsburg University Billiard Club

Bloomsburg University Chamber Singers

Bloomsburg University Chapter of the Society

of Professional Journalists

Bloomsburg University Communication Club

Bloomsburg University Gospel Choir

Bloomsburg University Rugby Club

Bloomsburg University Student Chapter of the Association

for Computing Machinery

BU Advertising Club

BU Volleyball Club

Campus Child Center Parent Association

Catholic Campus Ministry

Cheerleaders

Chess Club

Christian Student Fellowship

Circle K Club (Omega Tau Episilon)

College Republicans

Columbia Residence Hall Council

Community Arts Council

Community Government Association (CGA)

Commuters and Returning Students (CARS) Concert Choir Contemporary Organization of Media Majors

Der Deutsche Klub

Earth Science Club Economics Club Elwell Residence Hall Council English Club of Bloomsburg University European Student Association

Fellowship Among Christians Through Service (FACTS)
Fellowship of Christian Athletes
Finance Club
Forensic Society
Free Spirit
French Club (Le Cercle Francais)
Freshman Class

Habitat for Humanity
H.E.R.O.
Hillel (Jewish Fellowship)
History Club of Bloomsburg University
H.O.P.E (Helping Our Planet Earth)
Husky Ambassadors
Husky Singers

Ice Hockey Image Intercollegiate Bowling Club International Relations Club Inter-Varsity Christian Fellowship

Junior Class

Kappa Gamma Iota (Veterans) Kappa Phi Club Kehr Union Program Board

Luzerne Residence Hall Council Lycoming Residence Hall Council

Maroon and Gold Band Men's Lacrosse Club Montgomery Place Apartments Council Montour Residence Hall Council Music Educators National Conference

National Speech, Hearing, and Language Association, Student Chapter of Northumberland Residence Hall Council

Obiter (Yearbook)

People Actively Creating Equality (PACE) Phi Beta Lambda (Nu Omicron Chapter) Philosophy Club Planning Club (Geology) Political Science Student Association Powerlifting Club Pre-Law Club Project Awareness (Disabled Students) Project Retain Protestant Campus Ministry Psychology Association

QUEST Student Leadership Group Schuylkill Residence Hall Council

S.H.A.R.E. (Students Helping Adolescents Reach Excellence) SIGNIFY (Sign Language) Ski Club Ski Racing Club Society for Human Resource Management Society of Physics Students Sophomore Class Spanish Club (La Esquina Espanola) Student Art Association Student Council for Exceptional Children (Alpha Chapter #370) Student Nurses Association

Student PSEA

(Student Pennsylvania State Education Association) Students of Criminal Justice Students of the Social Welfare Club

Student Trainers Association

Studio Band

Senior Class

Table Tennis Club

Ultimate Frisbee Club United Greek Association University-Community Orchestra Upward Bound Alumni Association Urban Education Association (Cultural Diversity)

Voice, The (Newspaper) Volunteer Services: Student NASY

WBUQ - campus radio stations Weightlifting Club

Women's Choral Ensemble

Young Democrats

Students who are interested in journalism have an opportunity to join the staffs of student publications. Through these activities, students can contribute significantly to campus life while gaining valuable experience for future work in either commercial or school journalism.

Publications

The Voice—The university's student newspaper, *The Voice*, is published weekly and is funded by the Community Government Association (CGA) and distributed free throughout the university community. Students are responsible for most of the written material and for the newspaper's production.

Obiter—The Obiter is the annual yearbook and pictorial of activities and highlights at Bloomsburg University. It is funded by the C.G.A. and is distributed free to members of the senior class upon graduation. Other members of the university community may purchase copies at the University Store.

Bloomsburg Literary Journal—The Bloomsburg Literary Journal provides students and faculty with an outlet for their creative works. It is distributed during spring semester.

Pilot—The student handbook, the *Pilot*, is edited under the supervision of the director of student activities/Kehr Union and funded by CGA. The *Pilot* contains essential information about requirements, procedures, and policies established by the university.

Honor and Professional Societies

National honor and professional societies foster educational ideas through scholarship, social activities, and moral development.

Alpha Psi Omega Phi Sigma Pi Beta Beta Beta Pi Kappa Delta Delta Mu Delta Pi Omega Pi

Delta Phi Alpha (Alpha Delta Chapter)

Kappa Delta Pi Psi Chi

Kappa Mu Epsilon Sigma Tau Delta Omicron Delta Epsilon Tau Beta Sigma

Phi Kappa Phi

Social Fraternities and Sororities

The Inter-Fraternity Council (I.F.C.) serves as the governing body of the eight social fraternities and coordinates rushing, pledging, and programming.

Beta Sigma Delta Pi Kappa Phi
Delta Kappa Epsilon Sigma Iota Omega
Gamma Epsilon Omicron Tau Kappa Epsilon
Kappa Alpha Psi Theta Chi
Phi Sigma Xi

The Panhellenic Council is composed of representatives of the 11 social sororities. The council coordinates rushing and pledging activities and endeavors to enhance friendship and social relations between sororities and individual women.

Alpha Sigma Alpha Phi Del
Alpha Sigma Tau Phi Iota
Chi Sigma Rho Phi Sigma Rhi Delta Phi Epsilon

Phi Delta Phi Iota Chi Phi Sigma Sigma Sigma Sigma Sigma Theta Tau Omega

Student Services

Kehr Union—The mission of the Marguerite W. Kehr Union is to provide a predominately student governed and operated facility to enhance student life outside the classroom and to serve as a meeting place for all members of the university community.

The union is committed to diversity and serves as a forum for programs presented by student, academic, and outside organizations. Through the Kehr Union Program Board, the union provides diversified programs of educational and entertainment value for the entire campus.

The union provides facilities for many services including a large food court and houses the Health Center and the Career Development and Placement Center. Also located in the union in the Information Desk, Community Activities Office, Student Activities Office, as well as many student offices such as Community Government Association, Obiter, Voice, and Black Cultural Society.

Dining Facilities

Scranton Commons—Extensive renovation of the William W. Scranton Commons began in June 1991. Improvements added two atriums to the structure, an expanded faculty/staff dining room (the Pennsylvania Room), a special events dining area (the University Room), offices for food service management, and brought the seating capacity to 1,265. Cafeteria-style food services are furnished by a professional food service vendor. The lobby area on the Second Street entrance to the Commons was converted to a pizza shop, Itza Pizza, during the 1990-1991 academic year and has become a popular dining spot with students. A convenience store has also been added in the other lobby area (Husky Trail).

Members of the university community may eat in the Scranton Commons at published transient rates. The faculty and staff dining room is open for lunch to university employees, Monday through Friday.

Group meals are available to campus organizations; these may be arranged through the food service vendor subject to approval of the Residence Life Office and the Business Office 48 hours in advance of the event. Banquets and parties for outside groups may be reserved through the same procedure 30 days in advance.

Monty's, located on upper campus, is another new food service facility. Seating for 60 persons is now available with the recent addition of an atrium to the front of the building.

Meal Plan Options and Flex Dollars All students living in campus residence halls are required to purchase a meal plan. Students who live off-campus or in the Montgomery Place Apartments may purchase a meal plan at the Business Office in Waller Administration Building, but they are not required to do so.

The meal plan provides a cash equivalency option which allows students to purchase a certain dollar amount at each meal in the various food facilities on campus including the pizza shop and snack bar. After making a selection, the cash price of the meal is totaled. If the cost is under the prescribed amount, there is no charge. If it exceeds this amount, the difference must be paid in cash or in flex dollars. One cash equivalency meal equals one board meal.

Flex dollars, which are part of the meal plan and may be purchased separately by students living off-campus or in the Montgomery Place Apartments, broaden a student's options. These dollars can be used at any food facility. Each time a student uses flex dollars, the expenditure is subtracted from the balance of the student's flex account. Students living in the residence halls can add to their flex account in increments of \$25. Students living off-campus and in the Montgomery Place Apartments can purchase flex dollars at the Business Office in \$25 increments once they have made an initial minimum deposit of \$100 into their flex account.

The flex balance carries over from fall to spring semester only. Any balance left at the end of the spring semester is not refundable and can not be transferred. Students should use all monies in flex accounts.

Health Services

Student Health Center—The Student Health Center is on the 300 level of the Kehr Union Building. Students seeking health care or requiring consultation about a health problem should report to the center during posted hours or call 389-4451. In the event of an emergency and the Health Center is closed, students should report directly to The Bloomsburg Hospital Emergency Room. Students must show their current Bloomsburg University I.D. card to the emergency staff when seeking treatment at the hospital in order to have the emergency room fee waived.

The Student Health Center is staffed by registered nurses, nurse practitioners, and part-time physicians. Nurses refer students to the nurse practitioner and part-time physicians as needed for appropriate treatment. Professional services received at the center are covered by the health service fee (see page 51) and provided free to students. Laboratory tests will be charged to insurance companies. Medical services received at The Bloomsburg Hospital (with the exception of the emergency room fee) will require compensation from students or their insurance company. As part of an effort to provide improved services for students, the Health Center will announce any changes in the school newspaper and provide information in brochures.

Absence Due to Illness—A student who misses class because of an illness must contact his/her professors as soon as possible in order that an understanding can be reached between professor and student. In the case of prolonged illness for which strict bedrest and/or hospitalization is required, the Health Center will contact all concerned faculty.

Ambulance Service—Service to The Bloomsburg Hospital is paid for by the Student Health Center and is available to all students of the university while living on or off campus. In a medical emergency, call the Columbia County Emergency/Bloomsburg Ambulance Association at (717) 784-1911 for ambulance service. A student whose injury or accident is self-induced must bear the cost of the ambulance.

Family Planning—The Family Planning Center, located in Bloomsburg, offers services for gynecological exams, contraception, STD screening and treatment, pregnancy testing, and counseling. All visits are scheduled by appointment and all services are confidential. Referrals for non–patients and partners can be obtained by calling Family Planning Services, 1123 Old Berwick Road, Bloomsburg, from 9 a.m. to 5 p.m., Monday through Friday at (717) 387-0236.

Student Health Insurance

The university currently requires, in addition to the health service fee, all full-time students with nine or more credits and all international students to have appropriate accident and sickness insurance coverage. Students currently covered by an insurance plan of their parents, guardian, or spouse must provide the Health Center with the complete insurance information including name of insurance company, complete address and all policy and group numbers. Students who do not have current insurance may choose to purchase the current student health insurance or a plan of their choice. The student health insurance plan is designed to meet the needs of the individual at the least possible cost, balancing necessary coverage with the student's ability to pay. Students are encouraged to carefully review this plan to determine if it adequately meets health care needs. Filing of claims is solely the responsibility of the student; forms are available at the Health Center. All questions concerning claims and coverage should be referred directly to the company. A toll free number is provided by the company.

An application is included along with registration materials or can be obtained at the Health Center. Any change in insurance coverage should be reported immediately to the Health Center.

Insurance Coverage for Athletics—All students participating in intercollegiate sports must have their own primary insurance coverage. As a supplement to the student's own plan, the Community Government Association provides a policy that acts as a supplement.

The basic benefits, under the athletic insurance program, are provided on an excess basis. This means the expenses will be submitted to the parent's medical insurance plan prior to any payment or consideration by the university's company. Injuries requiring less than \$100 of medical expenses will be covered by the university's plan and need not be submitted to the parent's medical plan. The maximum benefit for injury to sound natural teeth is \$200 per tooth. Damage to temporary teeth (bridge, partial, etc.) is not covered.

In addition to the basic benefit plan, which covers up to \$25,000 in related expenses, all student athletes are covered under a Lifetime Catastrophic Insurance Plan. Under this plan, benefits would be pay-

able for life with no limit on the total dollar amount, on expenses incurred, for hospital care, surgical services, extended care facilities, and rehabilitation services.

Note: Insurance coverage offered to students is based on negotiated contracts and, therefore, is subject to change.

Insurance Coverage for Intramural Sports—The Bloomsburg University Intramural Program is completely voluntary and participation solely determined by free choice of each participant. Since the university is not responsible for injuries during intramural activities, it is required that participants have a satisfactory health status and appropriate personal accident insurance coverage for any injury that might occur during participation in the intramural program.

Center for Counseling and Human Development The Center for Counseling and Human Development (Counseling Center) provides counseling services to students in dealing with personal or academic problems through individual and group counseling formats. Some of these areas include: study skills, time management, academic concern, assertiveness and effective communication, homesickness, issues related to racism, sexism, homophobia and other "isms", human sexuality, substance abuse (drugs and/or alcohol), adult children of alcoholics, surviving rape, incest, assault and sexual assault, eating disorders, depression, suicide, self-esteem and many other situations which relate to daily living.

Specialized counseling is provided for students participating in Act 101 and Educational Opportunity Programs. In addition to individual and group counseling, counselors present outreach workshops, presentations, and seminars, upon request, in classes, residence halls, and other campus settings. Other services include professional consultation concerning students to faculty and staff.

All Counseling Center services are free and confidential. Release of any information to other persons and agencies is only undertaken with consent of the student, except as provided for by state or federal law and professional ethics.

Located in Room 17, Ben Franklin Hall, the center is open weekdays from 8 a.m. to 4:30 p.m. Counselors are available during regularly scheduled class days. After-hour emergency contact with a counselor can be made during each semester by calling the office answering machine service, (717) 389-4255. For appointments or additional information about counseling services, call (717) 389-4255.

Institutional Testing

Specific state and national tests for special purposes are administered by the coordinator of testing upon request as a service to the Bloomsburg University community. Special requests should be made to the coordinator by calling (717) 389-4830.

Tests such as the GRE, MAT, NTE, NLN Mobility II, and CLEP are administered on campus on a regular basis. Applications for these tests and the GMAT tests are available at the testing office located in the lower level of Luzerne Residence Hall. For more information, contact the center .

Orientation

Orientation involves the educational, career, personal, and social issues important for student achievement and a well-balanced university experience. It provides for the initial contacts with faculty in the crucial academic advisement process and familiarizes students with the university policies, procedures, personnel, facilities, and students. Promoting positive human relations among people from varied racial, economic, and social backgrounds and providing for completion of certain preenrollment matters involving scheduling, identification cards, meal tickets, and program evaluations are a part of the orientation process.

The university requires a comprehensive orientation program for all newly admitted degree students. Those entering in the fall semester are required to participate in a summer orientation and students whose enrollment is January, attend an orientation prior to the first day of classes. An invitation to this program is sent to all new students when they are accepted for enrollment and pay their admission fees.

Every effort is made to assign an orientation date that accommodates those traveling from great distances or military obligations.

Due to the important nature of the testing and academic advisement/scheduling process, local students who may have visited the university prior to orientation will still be expected to participate fully in an orientation session.

Students are responsible for familiarizing themselves with appropriate segments of the *Undergraduate Catalog* and the *Pilot* and with programs and policies pertinent to them. Assistance is available when problems or questions arise. For additional information, call the Orientation Office at (717) 389-4595 in Room 16, Ben Franklin Hall.

Student Grievances

Academic Grievances—Procedures have been established and are outlined in the *Pilot* to provide students with a system to register complaints of alleged academic injustices relating to grades or other unprofessional conduct in the traditional teacher/pupil relationship.

Nonacademic Grievances—Procedures also are available and outlined in the *Pilot* to provide students with a system to register complaints of alleged injustices relating to violation, misinterpretation or discriminatory application of nonacademic policies and procedures, and/or the conduct of professional, nonprofessional, and student employees.

Career Development Center The Career Development Center offers career counseling and planning assistance to students and alumni. In addition to individual counseling, an up-to-date career library containing occupational information, job search guides, employer/school district directories, corporate literature, and graduate/law school catalogues and directories is available.

The center sponsors numerous job search workshops, seminars and job fair programs throughout the year. Credential files are maintained for interested students and alumni. The center hosts employers wishing to interview graduating students for positions within their organizations.

SIGI-Plus, a computer-based career guidance system, is available to assist students with the career decision-making process.

The center is located in Room 101 of the Kehr Union building.

Veterans' Affairs

An office for veterans' affairs is located in the Office of the Registrar, Room 6, Ben Franklin Hall. It is staffed by work-study veterans whose duties consist of certifying the enrollment of veterans and the dependents and widows of veterans to the Veterans Administration. The office also assists in education-related matters such as educational benefits from the Veterans Administration, tutoring, and financial aid.

University Store

The University Store sells books, supplies, imprinted clothing, and many other sundry items. Routine hours are from 8 a.m. to 9:30 p.m., Monday and Tuesday; 8 a.m. to 7:30 p.m., Wednesday and Thursday; 8 a.m. to 4:30 p.m., Friday; and 10:30 a.m. to 2:30 p.m., Saturday.

Campus Postal Service The University Mail Room is adjacent to the University Store and is open from 8 a.m. to 4:30 p.m., Monday through Friday. The campus postal service assists students with mailing concerns.

Art on Campus

Works of art can be found on exhibition throughout the year in the Haas Gallery of Art. Under the direction of the Art Department, exhibitions are held monthly, and a special exhibition of student art work is held each spring.

The department also maintains a permanent art collection with more than 300 works of art displayed in buildings across the campus. The Percival Roberts III sculpture garden highlights the University's Sculpture Collection found on the University's 173-acre campus.

QUEST

QUEST is modeled after the Outward Bound Program and emphasizes the development of individual potential and teamwork through challenging and adventurous experiences, primarily in the outdoors. The development of leadership, communication, trust, and teamwork are important dimensions of the program.

Courses are designed to provide participants with recreational, educational, and personal growth experiences. Courses are offered to students, faculty, and staff of Bloomsburg University, other educational institutions, businesses, service organizations, and residents of Eastern Pennsylvania. Courses are primarily in Pennsylvania, though several times a year groups travel as far afield as Alaska, Colorado, Mexico, and South America.

Courses include:

Backpacking Mountaineering
Bicycling Rock Climbing
Canoeing Ropes Course
Caving Snowshoeing
Cross Country Skiing Whitewater Rafting
Initiatives/New Games Winter Camping
Kayaking Team-building

QUEST offers a career concentration in conjunction with other departments of Bloomsburg University, which enables a student to graduate with academic skills and experiences appropriate for positions in human service, outdoor education, and management.

QUEST plays a large role in the Freshmen Leadership Development Program, which is offered to select incoming freshmen. The intention

of their program is to prepare interested freshmen for leadership responsibilities while attending Bloomsburg University, and for the broader responsibilities of civic and professional leadership. Students are encouraged to apply for this program.

QUEST offers a seven day Orientation Program for Freshmen in the wilderness prior to the commencement of Fall classes. The program

includes backpacking, rock climbing, and rappelling.

QUEST manages an Equipment Rental Center providing a wide range of outdoor equipment for students, faculty, and staff and for residents of the community. For detailed information on the QUEST program, contact the QUEST office in Walter Simon Hall at (717) 389-4323.

Athletics and Recreation

The university is a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference, the Pennsylvania State Athletic Conference, and the Eastern Wrestling League.

The intercollegiate program includes baseball, basketball, football, cross country, men's and women's soccer, swimming, tennis, track, and wrestling for men; and basketball, field hockey, cross country, lacrosse, softball, swimming, tennis, and track for women.

When not in use for instruction, intercollegiate athletics, or intramurals, athletic facilities are available for recreational use by students. These include an indoor track and tennis court, Nautilus equipment, a weight room and sauna, racquetball courts, two swimming pools, and a physical fitness center.

Intramural Sports

The university is a member of the National Intramural-Recreational Sports Association (NIRSA). Major responsibilities of NIRSA members include: informal recreational sport and fitness programming, recreation facility operations, fiscal management, sport clubs coordination, intramural sports programming, and the administration of outdoor recreational activities.

The majority of intramural sports are co-educational. Intramural sports include: aerobics, flag football, golf, tennis, field hockey, horse shoes, volleyball, walleyball, racquetball, 3-on-3 basketball, basketball, arm wrestling, wrestling, indoor soccer, outdoor soccer, floor hockey, bench press, ultimate FrisbeeTM, and special events.

Motor Vehicle Registration

Operation of a motor vehicle on campus is a privilege explained in the *Motor Vehicle Regulations* available in the University Police office located on the ground floor of the University Store building.

In order for a resident student to have an automobile on the university campus, the student must be either 21 years-of-age or have earned 64 semester hours.

Special requests for permission to have a motor vehicle on campus from students not normally eligible are covered in Section 603 of the Motor Vehicle Regulations.

Eligible university personnel desiring to operate and/or park a motor vehicle on campus in order to use school facilities are required to register their vehicles with the university and obtain from the University Police office either a parking decal or a temporary permit when they arrive on

campus. There is no grace period. Failure to adhere to this provision results in a \$5 penalty. Students may hold only one valid parking decal at a time; however, emergency situations may warrant issuance of a temporary permit.

Visitors' Parking

Visitors should obtain a visitors' parking permit from one of several offices on campus. Locations include Carver Hall, Waller Administration Building, Nelson Field House, Office of University Police, Navy Hall, Andruss Library, and Ben Franklin Hall.

On weekdays, overnight visitors must park in the hospital area and obtain a visitor's permit from the University Police office. On weekends, there is open parking, and visitors may park in either red, black, or green areas only.

A visitor cited for a parking violation who wishes to appeal the violation should report to the Office of University Police with the ticket before leaving campus.

Campus Child Center

The Bloomsburg University Campus Child Center, located on the lower level of Elwell Residence Hall, is licensed to care for children aged 18 months to 12 years.

The Center, which operates as a daycare, provides a preschool and toddler program for children of university students, employees, and alumni. Daycare is from 7:45 a.m. to 5 p.m. and the preschool program is from 9 to 11:30 a.m. Operating days follow the academic calendar.

Preschool children, ages 4 and 5, are given the opportunity to learn and discover through first-hand experiences — sensory, investigative, manipulative, and creative — in preparation for the learning that will come later from books.

The toddler program, for children ages 18 months to 3 years, involves a great deal of free play, music, and storytelling. The children develop social skills and coping techniques as they separate from parents.

Daycare is available for school age children when necessary. Parents may use the center on a drop-in or full-time basis during the year, including summer. However, all children must be registered in advance. Registration materials and fee information can be obtained at the Center. The number is (717) 389-4547.

The Campus Child Center, licensed by the Pennsylvania State Department of Public Welfare, is governed by the Pennsylvania State Day Care Service for Children Regulations. The Community Government Association provides funding to help support the center.

Undergraduate Program

The undergraduate curricula are administered by the three colleges: College of Arts and Sciences, College of Business, and College of Professional Studies. The requirements for the curricula are stated in the chapters which deal with these colleges.

Each curriculum that leads to a baccalaureate degree requires the successful completion of a minimum of 128 semester hours. This requirement is met by the completion of courses in the major, General Education and free electives. General Education requirements are described in the following pages. The requirements for each major are listed under department headings. While electives are unrestricted, consultation with a faculty adviser is important.

When a student makes a tentative choice of a major she or he is assigned preliminary or prerequisite courses required in that major. In curricula where admission is selective or restrictive at the junior year entry-level, as in the case in several programs in the College of Professional Studies, the university is not bound to admit the student if he or she is not admissible according to the competition for available spaces or other selective criteria.

Students electing to major in two departments must have a major adviser in each department and meet all of the major requirements of each department and all of the General Education requirements (listed in this section). Double majors in some departments may require more than the minimum 128 semester hours for graduation. Double majors in departments in two colleges must have the permission of both college deans to declare a double major.

A semester hour is ordinarily defined as the credit for one weekly period of 50 minutes of lecture, discussion or recitation for one semester. In some cases as in laboratory, studio or internship, there may not be a one-to-one correspondence between experimental time and credit.

General Education Requirements

The goals of the General Education program are to develop:

- 1. An ability to communicate effectively;
- 2. An ability to think analytically and quantitatively;
- A facility to make independent and responsible value judgments and decisions according to high ethical values and life goals;
- An appreciation of the need for fitness and lifelong recreation skills;
- A capacity for assessing the validity of ideas and an understanding of the approaches used to gain knowledge through the development of critical thinking abilities;
- 6. A greater appreciation of theater, literature, art, and music through stimulation of one's creative interests;

Credit

- 7. An understanding of our society and the relative position of an individual in this society:
- 8. An understanding of the relationship between an individual and his/her physical and biological environments;
- A familiarity with the major contributions of human knowledge in the humanities, social sciences, natural sciences, and mathematics:
- 10. An awareness and global understanding of the relative position of the individual in the world community.

Specific Requirements

Communication

9 semester hours

English 20.104 (3 semester hours) or two courses (6 semester hours) consisting of English 20.101 and one of the following English courses: 20.200, 20.201, 20.203, or any other course in English Literature with a writing component.

Select one additional course (3 semester hours) from the approved list of communication courses on page 90.

Quantitative-Analytical Reasoning

3 semester hours

Select one course (3 semester hours) from the approved list of quantitative-analytical reasoning courses on page 91.

Values, Ethics, and Responsible Decision Making

3 semester hours

Select one course (3 semester hours) from the approved list of values, ethics, and responsible decision-making courses on page 91. (The development of interdisciplinary courses such as technology, science, and human values is encouraged.)

Fitness and Recreation Skills

3 semester hours

Select one course (3 semester hours) from the approved list of fitness and lifelong recreation skill courses on page 92.

Total = 15 or 18 semester hours

Distribution Requirements

Thirty-six semester hours are required with 12 semester hours required from each of the three general academic areas of humanities, social sciences, and natural sciences and mathematics. No more than three semester hours from a given academic major may count toward this distribution requirement. Courses which an individual uses to satisfy the specific communication, quantitative/analytical reasoning, values/ethics, and fitness and recreation requirements may not be used to satisfy distribution requirements. Bloomsburg University Curriculum Committee (BUCC) or an individual academic department with the approval of the BUCC may exclude any of its courses from being counted as a distribution requirement.

Humanities

12 semester hours

Twelve semester hours from courses developing an understanding of approaches to gain knowledge in the humanities (Goal 5), creative interests in and appreciation of art, literature, music, and theater (Goal 6), knowledge of major contributions in the humanities (Goal 9), and global awareness (Goal 10). At least three different humanities departments must be represented in these 12 semester hours with two or more semester hours taken from each department selected. The humanities departments are art, communication studies, English, history, languages and cultures, mass communications, music, and philosophy.

Social Sciences

12 semester hours

Twelve semester hours form courses developing an understanding of approaches to gain knowledge in the social sciences (Goal 5), an understanding of our own society and the place of an individual in that society (Goal 7), knowledge of the major contributions in the social sciences (Goal 9), and global awareness (Goal 10). At least three different departments must be represented in these 12 semester hours with two or more semester hours taken from each department selected. Social sciences departments include anthropology, economics, geography, political science, psychology, and sociology and social welfare.

Natural Sciences and Mathematics

12 semester hours

Twelve semester hours from courses developing an understanding of approaches to gain knowledge in the natural sciences (Goal 5), an understanding of the relationship of the individual to her/his environment (Goal 8), and knowledge of the major contributions in the natural sciences and mathematics (Goal 9). At least three natural sciences and mathematics departments must be represented in these 12 semester hours with two or more semester hours taken from each department selected. Natural sciences and mathematics departments include biological and allied health sciences, chemistry, earth science, physics, and mathematics.

*TOTAL = 51 or 54 semester hours

*Within these requirements, six semester hours must be selected from the approved list of diversity-focused courses. Such courses are designated with a double asterisk (**) in the course descriptions included in this catalog. Students must select two courses (3 semester hours) to fulfill this requirement.

General Education Course Requirements Required composition courses: 20.101 Composition I and either 20.200 Writing Proficiency Examination, 20.201 Composition II, or 20.203 Approaches to Literary Study. Students eligible for 20.104 Honors Composition are excused from taking 20.101, 20.200, 20.201, and 20.203.

Communication

3 semester hours

09.231 Technical Writing

10.101 French I and 10.102 French II

10.203 French III and 10.204 French IV

	10.205	Applied Phonetics and Pronunciation	
		German I and 11.102 German II	
		German III and 11.204 German IV	
		Spanish I and 12.102 Spanish II	
		Spanish III and 12.204 Spanish IV	
		Phonetics: Theory and Practice	
		Russian I through 13.104 Russian IV	
	14.101	Italian I and 14.102 Italian II	
	16.105	Chinese I and 16.106 Chinese II	
	18.101	Latin I and 18.102 Latin II	
	20.112	Practical Grammar	
		Creative Writing	
	25.103	Public Speaking	
	25.104	Interpersonal Communication	
	74.153	Introduction to Sign Language	
Di	versity	6 semester hours	
Consult your dean for a complete listing of approved diversity-			
focused courses.			
O 20 2 A 1 2 1D 2 2 1			
\sim		A 1 / 1D 1 2 / 1	
Q۱		ve-Analytical Reasoning 3 semester hours	
Qı	40.246	Business and Economics Math I	
Qı	40.246 40.346	Business and Economics Math I Business and Economics Statistics I	
Qı	40.246 40.346 45.260	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics	
Qı	40.246 40.346 45.260 48.160	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics	
Qı	40.246 40.346 45.260 48.160 53.101	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking	
Qı	40.246 40.346 45.260 48.160 53.101 53.111	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics	
Qt	40.246 40.346 45.260 48.160 53.101 53.111 53.114	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra	
Qı	40.246 40.346 45.260 48.160 53.101 53.111 53.114 53.118	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra	
Qı	40.246 40.346 45.260 48.160 53.101 53.111 53.114 53.118 53.123	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus	
Qı	40.246 40.346 45.260 48.160 53.101 53.111 53.114 53.118 53.123 53.125	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I	
Qt	40.246 40.346 45.260 48.160 53.101 53.111 53.114 53.123 53.125 53.141	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics	
Qt	40.246 40.346 45.260 48.160 53.101 53.111 53.118 53.123 53.125 53.141 53.241	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics Probability and Statistics	
Qt	40.246 40.346 45.260 48.160 53.101 53.111 53.118 53.123 53.125 53.141 53.241	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics	
	40.246 40.346 45.260 48.160 53.101 53.111 53.118 53.123 53.125 53.141 53.241 56.110	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics Probability and Statistics Introduction to Computer Science	
	40.246 40.346 45.260 48.160 53.101 53.111 53.118 53.123 53.125 53.141 53.241 56.110	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics Probability and Statistics	
	40.246 40.346 45.260 48.160 53.101 53.114 53.123 53.125 53.141 53.241 56.110	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics Probability and Statistics Introduction to Computer Science hics, and Responsible Decision Making	
	40.246 40.346 45.260 48.160 53.101 53.114 53.123 53.125 53.141 53.241 56.110	Business and Economics Math I Business and Economics Statistics I Basic Social Statistics Basic Statistics Mathematical Thinking Finite Mathematics College Algebra Applied Matrix Algebra Essentials of Calculus Analysis I Introduction to Statistics Probability and Statistics Introduction to Computer Science hics, and Responsible Decision Making 3 semester hours Science, Technology, and Human Values	

28.292 Contemporary Moral Problems
28.294 Ethics, Politics, and Public Policy
41.105 Environmental Issues and Choices
42.210 Values in Conflict in 20th Century History
42.215 Global Issues in History-A Conflict of Values

44.207 Ethics, Politics, and Public Policy
46.102 Anthropology and World Problems
48.131 Psychology of Adjustment
48.254 Psychological Aspects Social Issues

50.230 Human Sexuality

50.254 Social Implications Biology

82.217 Alcohol: Use and Abuse

Fitness and Recreation Skills

3 semester hours

05.149 Aquatics-Beginning, Non-swimmers

05.150 Beginning Aquatics

05.151 Intermediate Aquatics

05.155 Swimnastics

05.200 CPR and Safety

05.214 Fencing

05.217 Bicycling

05.219 Tennis

05.221 Jazz Dance

05.222 Creative Dance

05.223 Modern Dance

05.224 Fitness Dance

05.228 Gymnastics

05.230 Weight Training and Fitness

05.231 Archery

05.232 Bowling

05.233 Badminton

05.234 Golf

05.235 Riflery

05.236 Volleyball

05.237 Modified Physical Education

05.238 Racquetball/Handball

05.239 Square Dance

05.240 Fitness and Slimnastics

05.241 Judo/Self-Defense

05.243 Backpacking

05.244 Orienteering

05.245 Canoeing

05.246 Beginning Skin and SCUBA Diving

05.247 Rock Climbing

05.248 Basic Sailing

05.249 Synchronized Swimming

05.250 Lifesaving

05.270 Exercise and You

05.271 Intermediate Archery

05.272 Intermediate Bowling

05.273 Intermediate Golf

05.274 Intermediate Tennis

05.275 Intermediate Volleyball

05-276 Intermediate Judo

05.290 Special Topics (1 semester hour only)

05.298 Fitness and Wellness (1 semester hour only)

50.205 Introduction to Nutrition (1 semester hour only)

Distribution Course Requirements Students who otherwise meet the prerequisites are permitted to take any course offered for two or more semester hours by the department in addition to the recommended introductory courses that follow, unless

the course is expressly excluded for General Education by the university curriculum committee or the department with the approval of the curriculum committee. Courses excluded will be announced in the Class Schedule and in the Student Scheduling System.

GROUP A - HUMANITIES AND THE ARTS

- 30.101 Introduction to Art
- 31.215 American Art History
- 31.225 History of Architecture
- 31.235 Ancient and Medieval Art
- 31.236 Art From the Renaissance Through Impressionism
- 31.345 Art History of the Near East
- 31.346 Art History of the Far East
- 31.355 History of Modern Art
- 32.111 Drawing I
- 32.150 . Design I
- 32.201 Ceramics I
- 32.221 Fabric Design I
- 32.231 Painting I
- 32.241 Sculpture I
- 32.251 Weaving I
- 32.261 Graphics I: Printmaking
- 32.275 Crafts I
- 32,395 Art and Culture of France

Communication Studies

- 25.103 Public Speaking
- 25.104 Interpersonal Communication
- 25.206 Oral Interpretation of Literature
- 25.220 Intercultural Communication
- 25.241 Voice and Diction

English

- 20.111 Language for Social Interaction
- 20.112 Practical Grammar and Usage
- 20.131 The Bible as Literature
- 20.151 Introduction to Literature
- 20.152 Literature and Society
- 20.153 Folklore
- 20.154 Folklore of the American West
- 20.156 Popular Literature
- 20.226 European Literature I
- 20.227 European Literature II
- 20.236 American Literature I
- 20.237 American Literature II
- 20.246 British Literature
- 20.247 British Literature II
- 20.256 Non-Western Literature I

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20.280 Poetry History 42.100 Transatlantic World in the 20th Century 42.112 Origins of the Modern World 42.113 The Modern World 42.121 United States History Survey: Colonial Period to 1877 42.122 United States History Survey: 1877 to the Present 42.133 The Ancient and Medieval Worlds 42.141 The Modern Far East 42.142. Latin America: From European Colonization to the Present 42.143 Black Africa 42.144 Islamic and Hindu Worlds: Middle East, India, and Malaysia 42.208 Contemporary Issues in U.S. History 42.210 Values in Conflict in 20th Century History 42.222 Growth of Business in America 42.223 Economic History of the United States 42.224 The Immigrant Experience 42.227 The American Woman: Accomplishments and Aspirations 42.229 Modern World Leaders 42.250 History of Science 42.277 History of Christian Religion 42.281 Military History I 42.282 Military History II Interdisciplinary Studies 09.171 Scholars Seminar I in Humanities Languages and Cultures 10.101 French I 10.102 French II 10.203 French III 10.204 French IV 10.206 Structure of the French Language 10.207 Conversation: French Daily Life

10.211 Foundations of French Culture and Civilization

10.212 France Today10.290 French Studies Abroad10.295 Art and Culture of France

11.206 Grammar and Composition

11.101 German I11.102 German II11.203 German III11.204 German IV

20,257 Non-Western Literature II

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- 11.207 Conversation
- 11.211 German Culture and Civilization I
- 11.212 German Culture and Civilization II
- 11.290 German Studies Abroad
- 12.101 Spanish I
- 12.102 Spanish II
- 12.203 Spanish III
- 12.204 Spanish IV
- 12.206 Structure of the Spanish Language
- 12.207 Conversation: Hispanic Daily Life and Customs
- 12.211 Spanish Culture and Civilization
- 12.212 Spanish-American Culture and Civilization
- 12.290 Spanish Studies Abroad
- 13.101 Russian I
- 13.102 Russian II
- 13.103 Russian III
- 13.104 Russian IV
- 14.101 Italian I
- 14.102 Italian II
- 16.105 Chinese I
- 16.106 Chinese II
- 16.211 Chinese Culture and Civilization I
- 16.212 Chinese Culture and Civilization II
- 18.101 Latin I
- 18.102 Latin II
- 18.111 Roman Civilization
- 18.112 Introduction to Roman Literature

Mass Communications

- 27.110 Mass Communications and the Popular Arts
- 27.190 History of Film
- 27.285 Cinema Appreciation

Music

- 35.101 Music Listening I
- 35.103 Fundamental Musicianship
- 35.106 Maroon and Gold Band
- 35.107 University-Community Orchestra
- 35.108 Concert Choir
- 35.109 Women's Choral Ensemble
- 35.116 Husky Singers
- 35.141 Violin
- 35.142 Viola
- 35.143 Violoncello
- 35.144 Double Bass
- 35.151 Organ
- 35.161 Trumpet
- 35.162 Horn
- 35.163 Trombone
- 35.164 Baritone

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35.165 Tuba 35.171 Voice 35.181 Piano 35,191 Flute 35.192 Oboe 35.193 Clarinet 35.194 Bassoon 35.195 Saxophone 35.196 Percussion 35.201 Sight Singing I 35.202 Sight Singing II 35.203 Class Voice 35.204 Class Piano I 35.205 Class Piano II 35.206 Class Strings 35.207 Class Instruction in Brass 35.210 Music Theory I 35.211 Music Theory II 35.230 Voice 35.235 Piano 35.240 Trumpet 35.241 Horn 35.242 Trombone 35.243 Baritone 35.244 Tuba 35.251 Flute 35.252 Oboe 35.253 Clarient 35.254 Bassoon 35.255 Saxophone

Philosophy

- 28.111 Introduction to Philosophy
- 28.220 Ethics

35.256 Percussion 35.321 Music History I 35.322 Music History II

- 28,221 Plato and Aristotle
- 28.224 Descartes to Kant
- 28.228 Existentialism
- 28.270 Religions of the East
- 28.271 The Western Religious Tradition
- 28.303 Philosophy of Science
- 28.304 Philosophy of the Social Sciences
- 28.351 Theory of Knowledge

Theater Arts

- 26.102 Introduction to Theater Arts
- 26.112 Fundamentals of Acting
- 26.209 Theater Appreciation
- 26.215 History of the Theater

As of Sept. 1, 1992, there were no courses under Group A specifically excluded from inclusion as courses eligible for distribution requirements.

GROUP B - SOCIAL AND BEHAVIORAL SCIENCES

Anthropology

- 46.101 Introduction to Anthropology
- 46.102 Anthropology and World Problems
- 46.200 Principles of Cultural Anthropology
- 46.210 Prehistoric Archaeology
- 46.220 Human Origins
- 46.260 Men and Women:
 - An Anthropological Perspective
- 46.290 Race and Racism

Communication Disorders

72.152 Introduction to Communication Disorders

Economics

- 40.211 Principles of Economics I
- 40.212 Principles of Economics II

Geography

- 41.101 World Physical Geography
- 41.102 World Cultural Geography
- 41.125 Weather and Climate
- 41.150 Elements of Planning
- 41.200 Geography of United States and Canada
- 41.201 Geography of Europe
- 41.202 Geography of Latin America
- 41.221 Economic Geography
- 41.242 Map Skills
- 41.258 Environmental Conservation
- 41.281 Special Topics in Geography: Pennsylvania Folk Cultures

Interdisciplinary Studies

09.172 Scholars Seminar I in the Social Sciences

Political Science

- 44.101 Elements of Political Science
- 44.108 Contemporary Political Ideologies
- 44.120 United States Government
- 44.160 Nations, States, and Governments
- 44.181 Contemporary Issues in World Politics
- 44.366 Political Systems of Western Europe

Psychology

48.101 General Psychology

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48.131 Psychology of Adjustment

48.210 Life-Span Psychology

48.211 Child Psychology

48.212 Adolescence

48.251 Social Psychology

48.254 Psychological Aspects of Social Issues

Sociology and Social Welfare

45.133 Introduction to Social Work and Social Welfare

45.211 Principles of Sociology

45.213 Contemporary Social Problems

45.215 Racial and National Minority Groups

45.216 Urban Sociology

45.219 Religion and Society

45.231 Marriage and Family

45.242 Juvenile Delinquency

45.276 Science and Society

Special Education

70.101 Introduction to the Exceptional Individual

As of Sept. 1, 1992, the following courses were specifically excluded from inclusion as courses eligible under Group B for distribution requirements: 40.246 Business and Economics Mathematics; 40.280 Special Topics; 40.346 Business and Economics Statistics 1; 40.400 Econometrics; 40.446 Business and Economics Statistics 11; 40.470 Senior Seminar; 40.480 Advanced Special Topics; and 40.490 Independent Study.

GROUP C - NATURAL SCIENCES AND MATHEMATICS

Biological and Allied Health Sciences

50.101 General Biology I

50.102 General Biology II

50.110 Biology of Animals

50.111 General Biology Laboratory

50.120 Biology of Plants

50.231 Biology of Aging

50.240 Introductory Microbiology

Chemistry

52.100 Chemistry and the Citizen

52.101 Introductory Chemistry

52.108 Physiological Chemistry

52.115 Fundamentals of Inorganic Chemistry

52.131 Fundamentals of Organic Chemistry

52.216 Chemical Principles and Measurement

Earth Science

- 51.101 Physical Geology
- 51.102 Historical Geology
- 51.105 Environmental Geology
- 51.111 Physical Geology Laboratory
- 51.112 Historical Geology Laboratory
- 51.255 Meteorology
- 51.259 Oceanography

Interdisciplinary Studies

09.173 Scholars Seminar I in Natural Sciences

Mathematics

- 53.101 Mathematical Thinking
- 53.111 Finite Mathematics
- 53.112 Trigonometry
- 53.113 Pre-Calculus
- 53.114 College Algebra
- 53.118 Applied Matrix Algebra
- 53.123 Essentials of Calculus
- 53.125 Analysis I
- 53.126 Analysis II
- 53.141 Introduction to Statistics
- 53.201 Theory of Arithmetic
- 53.202 Geometry and LOGO for Elementary Teachers
- 53.231 College Geometry
- 53.241 Probability and Statistics
- 56.210 Algorithmic Processes for Computers

Physics

- 54.101 Basic Physical Science
- 54.103 Principles of Physical Science
- 54.104 Elementary Electronics
- 54.105 Energy: Sources and Environmental Effects
- 54.106 The Science of Sound
- 54.107 Applied Physics for Health Sciences
- 54.110 Introduction to Astronomy
- 54.111 Introductory Physics I
- 54.112 Introductory Physics II
- 54.211 General Physics I
- 54.212 General Physics II

As of Sept. 1, 1992, the following courses were specifically excluded from inclusion as courses eligible under Group C for distribution requirements: 50.205 Introduction to Nutrition; 50.230 Human Sexuality; and 50.254 Social Implications of Biology.

Buildings and Facilities

Bloomsburg's campus is comprised of two tracts called the lower campus and upper campus with a total area of 173 acres. Lower campus comprises the original campus and adjacent areas subsequently acquired. It contains several residence halls, dining hall, a university store, administration buildings, auditoriums, a library, academic buildings, and recreation areas. The upper campus encompasses E. H. Nelson Field House, Redman Stadium, Litwhiler Field, the Montgomery Place Apartments, Monty's (a food service facility), and practice areas.

Instructional Buildings

Bakeless Center for the Humanities, completed in 1970, contains classrooms, lecture halls, faculty offices, and an exhibit area. It is used primarily by the departments of English, philosophy, economics, and political science. The building was named for the Bakeless family including Professor Oscar H. Bakeless, a graduate of the school and former distinguished member of the faculty; his wife, Sara H. Bakeless, a graduate and former faculty member; their son, Dr. John E. Bakeless, a graduate, author, and recipient of the Alumni Distinguished Service Award; their daughter, Mrs. Alex Bakeless Nason, a graduate and benefactor of the school; and their daughter-in-law, Mrs. Katherine L. Bakeless, a graduate of the school and a nationally known author.

Ben Franklin Hall, completed in 1930 for use as a campus laboratory school, accommodates several administrative offices and services including Admissions, Registrar, Financial Aid, Student Life, Center for Counseling and Human Development, Tutorial /504 Services, Academic Advisement, Cooperative Education and Academic Internships, Career Development, Orientation, Academic Computer Services, Administrative Computer Services, and a student computer laboratory.

Centennial Gymnasium, completed in 1939, contains a gymnasium that seats 1,200, an auxiliary gymnasium, a swimming pool, an adaptive lab, and offices and classrooms for health, physical education, and athletics. QUEST maintains an equipment area in the basement.

Hartline Science Center, completed in 1968, is an instructional building with modern classrooms, lecture halls, seminar rooms, laboratories, faculty offices, and an exhibit area; it accommodates the departments of chemistry, physics, biology, and geography and earth science. The name of the building honors Daniel S. Hartline, a former biology teacher, and his son, Dr. H. Keffer Hartline, a 1968 Nobel Prize laureate and recipient of a Bloomsburg University Alumni Distinguished Service Award.

The newest instructional building, the James H. McCormick Center for Human Services, opened in 1985. It is the hub of the College of Professional Studies. Laboratories, seminar rooms, and the dean's office are located here. Classrooms and faculty offices for the departments of

nursing and curriculum and foundations. The College of Arts and Sciences' departments of communication studies, mathematics and computer science, mass communications, psychology, and sociology and social welfare are located in McCormick, in addition to Audio Visual Resources , an autotutorial laboratory, and an educational media laboratory, as well as Radio and Television Services, a student darkroom, and laboratories to support instructional technology services. The Curriculum Materials Center and laboratories for programs in elementary and secondary education, nursing, psychology, and sociology can be found here. A student computer laboratory is located on the first floor. McCormick Center contains a number of general purpose classrooms and a multi-image projection room known as the University Forum.

Navy Hall was constructed in 1939 as a campus laboratory school but was converted during World War II for the use of candidates enlisted in the Navy V-12 Office Training Program. It houses the Department of Communication Disorders and Special Education, the Reading Clinic, the Speech, Hearing, and Language Clinic, and a number of classrooms and offices.

E. H. Nelson Field House, built in 1972 on the upper campus, serves as the university's main sports arena and seats 2,600 spectators. There is an indoor track, a six-lane swimming pool with adjacent seating for 500 spectators, faculty offices, handball courts, classrooms, equipment rooms, a Nautilus room, and special facilities for physical training and therapy. The building is used for health and physical education classes, varsity athletic contests, recreational activities, and other campus events which draw large audiences. Free bus transportation is provided regularly between the field house and the lower campus. Dr. E. H. Nelson, for whom the building is named, was the director of athletics at the university for many years.

Science Hall, commonly called "Old Science" to distinguish it from Hartline Science Center, was built in 1906. Renovated in 1988-1989, it provides offices for the departments of anthropology, art, history, languages and cultures, and has several classrooms and studios.

Sutliff Hall, completed in 1960, contains classrooms and faculty offices for the College of Business. William Boyd Sutliff, after whom the building is named, was a mathematics teacher and the first dean of instruction at Bloomsburg State Normal School. An extensive renovation of Sutliff Hall was completed in July 1987.

Residence Halls, Dining Rooms, and Student Union Columbia Residence Hall, completed in 1970, is a seven-story structure that houses 400 female students. It contains lounges, study rooms, recreation areas, a special projects room, a guest suite, and an apartment for the residence director.

Elwell Residence Hall, completed in 1968, is a nine-story facility that can accommodate 609 students. It has recreation rooms and lounges, a guest suite, study rooms, and apartments for staff. On the ground floor is the Office of Residence Life, Campus Child Center, the Records Center, and the AFSCME office. Elwell Hall, a women's residence, was named in honor of Judge William Elwell, a former trustee; his son George E. Elwell, a graduate and former trustee; and his grandson G. Edward Elwell, a graduate and former French instructor at the university.

Luzerne Residence Hall, a four-story residence hall completed in 1967, accommodates 300 students. It has lounge and recreation areas, study rooms, and apartments for staff. Luzerne is a men's residence. The Office of Academic Support Services is located in the ground floor.

Lycoming Residence Hall opened in the fall of 1976. In addition to sheltering 250 students, the building offers lounges, study rooms, recreation areas, special project facilities, and an apartment for the residence director. It is a women's residence.

Montour and Schuylkill Residence Halls are four-story structures completed in 1964. Each lodges 250 students and is divided into two wings complete with recreation and lounge facilities, study rooms, guest suites, and apartments for resident staff members. Montour is a men's residence and Schuylkill is a women's residence.

Northumberland Residence Hall, completed in 1960, accommodates 200 male residents. There are lounge and recreation areas, study rooms, and apartments for residence hall staff members.

Montgomery Place Apartments, located on upper campus, provides living accommodations for 380 upper class students. Constructed in 1989, the two and three bedroom apartments are clustered in six buildings. Occupants of individual apartments must be of the same sex.

William W. Scranton Commons, completed in 1970, is an air-conditioned dining facility with 1,175 seats and a serving capacity of 3,000 persons per meal. Folding partitions permit flexibility of arrangements. A pizza shop and convenience store are located in the lobbies of the building. Additions to the Commons were completed in 1992. The Commons is named in honor of William W. Scranton, governor of Pennsylvania from 1963 to 1967.

University Store, completed in 1956, was initially used as the college commons, then from 1970 until 1973 as a temporary student union. The building has been remodeled and now serves as the campus store where students may purchase textbooks, sundry supplies, and clothing. The building also houses the Office of University Police and the campus post office.

Marguerite W. Kehr Union underwent major renovations which were completed in the fall 1992. The Union houses Student Activities, the Student Health Center, Career Development, recreational rooms, meeting rooms, a television room, lounge, student activities multipurpose rooms, food service and the Community Government Office. Its name honors the late Dr. Marguerite W. Kehr, dean of women from 1928 to 1953.

Administration and Service Buildings

Waller Administration Building, completed in 1972, contains offices for Budget and Administrative Services; Purchasing; University Relations and Communication; Personnel and Labor Relations; Planning, Institutional Research, and Information Management; Department of Developmental Instruction; the provost and vice president for academic affairs; the dean of the College of Arts and Sciences; and the School of Graduate Studies. Waller also contains conference rooms, the Grants Office, the Business Office, and a central receiving area for university supplies and equipment. The building is named for D. J. Waller Jr., who served for 27 years as principal of the Bloomsburg Normal School.

Francis B. Haas Center for the Arts, completed in 1967, has a 1,900-seat auditorium, Marco and Louise Mitrani Hall, with a stage tailored for dramatic productions. There are classrooms; faculty offices for music and theater; facilities for music, debating, and drama groups; and a primary exhibit area, Haas Art Gallery. Dr. Francis B. Haas, for whom the auditorium was named, was president from 1927 to 1939. Prior to and following this period, he served as State Superintendent of Public Instruction in Pennsylvania.

Carver Hall, built in 1867, is the oldest building on campus. In addition to Gross Auditorium, Carver houses the Office of the President, Alumni Room, and the offices of Development, University Advancement, and Affirmative Action.

Buckalew Place, originally the home of Charles R. Buckalew, a U.S. Senator from 1863 to 1869 and a trustee of the Normal School, was acquired by the Commonwealth for use as the president's home in 1926.

Boyd F. Buckingham Campus Maintenance Center, completed in 1970, houses offices, storage areas, vehicles, and workshops used by the plant maintenance and custodial staff. The building is named in honor of Boyd F. Buckingham, vice president for administration from 1974 to 1981.

Harvey A. Andruss Library, constructed in 1966, houses the university's extensive collection of bound volumes, microtexts, periodicals, and other source and reference materials for study and research. Dr. Harvey A. Andruss served as president of the institution from 1939 to 1969. Dr. Andruss established the division of business education and served as dean of instruction prior to becoming president.

New Library—In October 1992, the governor approved a unique funding allocation formula toward construction of a larger library. Under the plan, Bloomsburg University must raise 25 percent toward construction costs. The balance of the necessary funds will come from the Commonwealth. A Treasury of Ideas, Bloomsburg's fund-raising campaign for a new library, began in 1993. It is estimated the new facility will double the space presently available in the Harvey A. Andruss Library. The proposed library will be the premiere public resource for information and collections in the region, utilizing the latest information technology to serve children, students and adults, as well as businesses and industries of surrounding communities and counties. It will serve as a focal point for resources, exhibits, and programs that will attract attention from the region in addition to the university community. The projected schedule calls for the construction bid to be awarded in October 1994 and construction to be completed in May 1996.

Magee Center, former residence of the late industrialist Harry L. Magee, was donated to the university in 1988 by the Magee Foundation. The building houses the offices of the School of Extended Programs and functions as the school's public service center. The two-story stone structure was built in 1946-1947 on a large tract of land 1.5 miles west of lower campus. Its interior offers congenial surroundings for hosting university and community groups, conferences, training seminars, and other noncredit programs. The address of this off-campus facility is: 700 West Main Street, Bloomsburg, PA 17815.

Wilson House, 720 East Second Street, was a private residence located adjacent to the campus when the university acquired the property in 1988. It now harbors Upward Bound and guest facilities.

The Tri-Level Parking Garage on Second Street is a concrete structure, completed in 1972, and accommodates approximately 200 vehicles.

University Services

Library Services

The Harvey A. Andruss Library, completed in 1966, houses the university's extensive collection of bound volumes, microtexts, periodicals, special collections and reference resources for study and research. The library was named for Dr. Harvey A. Andruss, president of Bloomsburg from 1939 to 1969.

The Andruss Library, a unit of Academic Affairs, has a total collection of more than 2 million items. The book collection consists of more than 300,000 volumes including a large reference collection and more than 1.7 million microforms. In addition to federal, state, and local government documents, there is a collection of more than 5,900 phonograph records, a pamphlet file of 9,000 items, and a juvenile/young adult book collection. Collections of note and books of value are part of the libraries resources.

General Collection—The Harvey A. Andruss Library houses the university's collections of books, periodicals, phonodiscs, and some audiovisual resources. Other resources are located in the Curriculum Materials Center and Audiovisual Resources in the McCormick Center for Human Services.

The Circulation Desk maintains the Reserves Collection and the Current Periodicals Collection, which includes the latest two years of all journals received by the library. Print journals dating before 1985 are in accessible storage and are retrieved on request daily by the Circulation Desk.

Special Collections—These collections contain unusual and rare first editions, autographed books, and illustrated books. Specific interests are art exhibition catalogs, covered bridges, and the literacy movement led by Frank C. Laubach.

University Archives—University Archives is the depository for archival and other materials relating to the history of Bloomsburg University. It is located on the ground floor of Bakeless Center for the Humanities.

Public Access Online Catalog (PALS)—The PALS catalog includes all books and phonorecords in the General, Juvenile/Young Adult, and Reference collections and many of the 1.7 million pieces in the microform collection. Circulation is computerized and allows patrons to determine whether materials are available on the shelves and speeds the checking out of resources.

Database Searching—CD-ROM bibliographical and abstract databases are available through the library's local area network (LAN), which is connected to the campus-wide LAN that makes the information available in student computer laboratories. Current databases include ABI/Inform, Business Index, ERIC, Periodical Abstracts, and

PsycLit. More than 60 additional information databases can be searched by students in DIALOG's Knowledge Index at a nominal cost. The databases are helpful to students in locating resources and information for research projects.

Online access to more than 300 additional information databases through DIALOG is available through skilled faculty librarians. Charges for this service are usually nominal. Requests can be made at the Reference Desk.

Reference and Instruction Services—Faculty librarians at the Reference Desk are available 84 hours each semester week to assist students with research methodology and the use of information resources. An interactive video program and topical research guides are available to assist students in learning to use the library's resources. Library faculty provide bibliographic instruction to classes.

Interlibrary Loan—Books and periodical articles not available in the library's collections may be borrowed from other libraries, usually without cost. Requests are accepted at the Reference and Circulation Desks.

Curriculum Materials Center

The basic objective of the Curriculum Materials Center, housed in the McCormick Human Services Center, is to locate, acquire, catalog, and make curricular and instructional materials accessible to preservice and inservice teachers. The resources housed in the center include elementary and secondary textbooks, a multicultural curriculum materials collection, curriculum guides, games, instructional materials kits, tests, and computer software. Macintosh microcomputers and a laser printer are available.

Reading Clinic

The Reading Clinic, located in Navy Hall, offers free diagnostic evaluation to children and adults. After evaluation, remedial counseling and instruction are provided, if desired. Parent counseling is available. This is a year-round service.

Speech, Language and Hearing Clinic

Located in Navy Hall, the clinic provides a number of services to students, faculty, staff, and the community. These include speech, voice, language, hearing and hearing aid evaluation, auditory training, speech reading and parent counseling. The clinic is approved by the Professional Service Board of ASHA.

University Writing Center

The one-on-one tutorial services of the University Writing Center are available to all students. The Center provides conversation, advice, and ongoing support for writers at any stage of work on a writing project. Tutoring in reading, researching, note-taking, drafting, rewriting, editing, and proofreading is provided. The service is offered on a drop-in basis; no registration, referral, or appointment is necessary.

The Center also works with teachers to design programs tailored to particular classes. Small group meetings, class demonstrations, and

check-in points during a writing project can all be arranged with the Center's director.

Located in Room 206, Bakeless Center for the Humanities, the Center is open 30 to 40 hours each week, including some evening hours. The Writing Center's staff readers are successful student writers who work under the supervision of Director Terrance Riley. Interested students and faculty should contact the English Department for more information: (717) 389-4427.

Educational Computing Laboratory The Educational Computing Laboratory is located in 2229 McCormick Human Services Center. Computers, including 25 Macintosh IIsi, are available for student and faculty use. The entire laboratory is part of the campus network and has a variety of current software for the Macintoshes. The lab is supported by Academic Computing Services.

Other Services—Coin-operated photocopiers and microform reader/ printers, phonodisc turntables, circulating microfiche readers, and facilities for duplicating microfiche are available.

Athletics and Recreation Areas Redman Stadium, used for football and track events is located on the upper campus and was completed in 1974. A permanent concrete stand on the west side provides seating for 4,000 spectators, and bleachers on the east side increase the total seating capacity to nearly 5,000. There is a press box for media personnel. Robert B. Redman, after whom the stadium is named, was assistant dean of men and head football and baseball coach from 1947 to 1952. Teams he coached gained state and national recognition.

Litwhiler Field, a baseball field completed in 1974, is located east of Redman Stadium. It was named in honor of Danny Litwhiler, former head baseball coach at Michigan State University. Litwhiler, who was coached by Dr. E. H. Nelson, studied at Bloomsburg in the late 1930s and played for several major league baseball teams prior to beginning his career as a baseball coach at Florida State University.

Practice Fields and Recreational Facilities—Nine practice fields are included in the total athletic complex on the upper campus. Fields for soccer, field hockey, lacrosse, and intramurals are available.

Both Nelson Field House on the upper campus and Centennial Gymnasium on the lower campus are used extensively for recreational activities as well as for classes and varsity athletic events. Lower campus athletic and recreational facilities include 18 Grasstex tennis courts, nine of which are lighted; a softball field; and outdoor basketball and volleyball courts.

The University Foundation

The Bloomsburg University Foundation, Inc., was established in 1970 as a nonprofit educational corporation to assist the institution. The foundation, which was reactivated in January 1986, has the responsibility of securing private funds to maintain and enhance quality and excellence in all areas of the university. The Bloomsburg University Foundation conducts an active program of information, cultivation, and solicitation among alumni, corporations, foundations, and private individuals. The foundation membership includes outstanding business, professional, and civic leaders from throughout the Commonwealth.

Institute for Interactive Technologies

The Institute for Interactive Technologies (IIT) provides research, education, training, and entrepreneurial assistance for education and industry through the application of various interactive technologies such as computer-based interactive videodisc and digital systems. The IIT provides workshops for interactive video training and educational opportunities for students in the master's program in instructional technology.

Television and Radio Services

TV/Radio Services, 1244 McCormick Human Services Center, provides assistance in instructional, informational, and other television production. Support is available for instructional and campus oriented programs as well as off-campus contract or charitable users, with priority given to academic endeavors. The facility is equipped with a multicamera broadcast quality TV studio and state-of-the-art editing suite. A single camera VHS studio is available for unattended use by all academic programs on campus for instructional needs. Audio tapes can be recorded in the Audio Production Room.

Audio Visual Resources

A part of TV/Radio Services, AV-Resources is located on the ground floor of the McCormick Human Services Center, Room 1231. It houses the university's instructional film and video collections. AV equipment of all types is provided to faculty and staff. Graphic production facilities are available for instruction, meetings and events, conferences, and research. AV Resources offers limited production facilities for the creation of transparencies, signs and posters, and photographic slides. Supervision is provided for the Autotutorial Lab where students, faculty, and staff may view AV materials.

Academic Computing Facilities

Academic computing facilities are located throughout campus. Full open access areas are located in Ben Franklin Hall, McCormick Human Services Center, and Hartline Science Center. The Ben Franklin and McCormick computer complexes are open seven days a week for over 90 hours per week. There are 28 Macs, two Apple II, and 80 MSDOS computers in these areas. Limited access areas for MS DOS computers are in Bakeless 307 and 205, Sutliff 112 and 117. Limited access Macintosh areas are in McCormick 2205 and 2229 and Bakeless 101. These limited access areas are classrooms which are available for general use when not reserved or being used for classes. Elwell Residence Hall has its own cluster of computers.

The student lab in Room 1148 of McCormick Human Services Center houses an AT&T 3B2/1000 minicomputer with 35 MS DOS PCs directly connected to it. Room 1146 houses 18 additional PC computers.

The Ben Franklin student lab areas are in Rooms 1 and 2. Room 1 is configured with 26 PCs. Room and 1 and 2 have a cluster of 24 Macintosh computers that are networked to a laser printer and file server. These microcomputers are attached to printers and are used by students for programming, word processing, and other related course work. Room 3 is a reserved area with Sun workstations. Macintoshes and PCs in the computer classrooms of Bakeless Center for the Humanities, McCormick Human Services Center and Sutliff Hall are available for general access during periods of the day, evening, and weekends. Two Apple IIGS computers are available for general use in the Curriculum Materials Center in McCormick.

The computer labs and classrooms are connected to local area networks and the campus network. File servers on the networks give students access to programs and files. The AT&T 3B2/1000 minicomputer is a host computer used by students for programming, statistical analysis, electronic mail, and access to the Internet for off-campus connections. The AT&T 3B2/1000, a multi-user system, has network connections and dial-in access. Languages on the system include Ada, C, FORTRAN, COBOL, and PL/1. The Oracle database and Minitab statistical package are used for instructional purposes.

Students are permitted to connect their personal micros or terminals to the campus network via modems, allowing them to use the AT&T 3B2/1000 and Unisys 2200 from their room, home or off-campus residence.

The Unisys system, the university's administrative computer, is used by students and faculty for instruction and research. The system is accessed by 10 direct terminal connections and modems for dial-in access by students and faculty. Statistical programs, SPSS and BMD/BMDP, and FORTRAN programming language are available on this system.

During fall and spring semesters, access to the general work areas is normally 8 a.m. to 11:45 p.m., Monday through Thursday; 8 a.m. to 4:45 p.m., Friday; Saturday noon to 4:45 p.m.; and Sunday noon to 11:45 p.m. The work areas are supported by student consultants who are available to help students with basic problems in using the equipment and software in the lab areas.

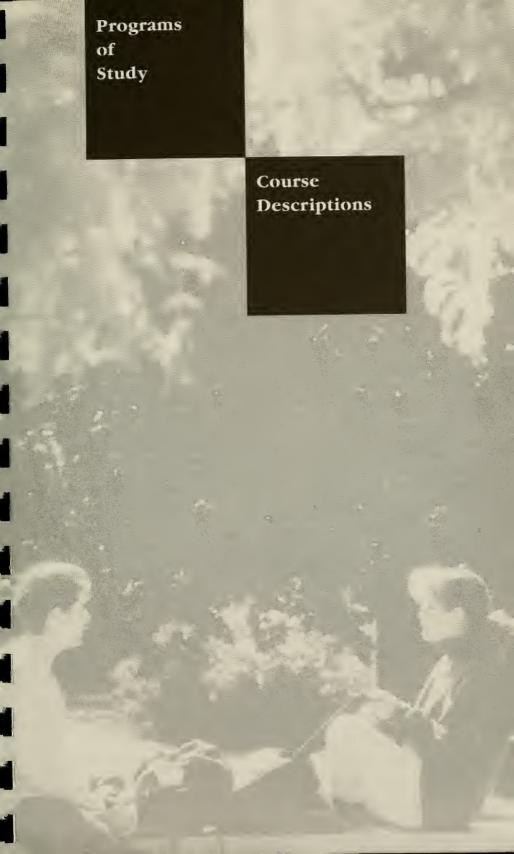
Administrative Computer Services The Administrative Computer Services facilities are located in Ben Franklin Hall. Computer Services serves the university for administrative computing but also provides selected services for student coursework and related information.

The UNISYS 2200 system is configured as follows: central processor 2200/402, 36,000,000 bytes of main memory; disk storage 10 gigabytes of on-line mass storage on three drives; tapes-5 units with dual density capabilities for off-line storage on magnetic tapes; and distributed communication processor-89 access ports supporting 365 university-owned

terminals. The system operates under the OS-1100 operating system and supports all normal tape, disk, and telecommunication functions. Computer Services also maintains a UNISYS U6000 UNIX system providing a gateway to the Internet.

Terminal direct attachment to the mainframe is provided in Ben Franklin Hall, Room 1; Sutliff Hall, Rooms 112 and 117; Bakeless Center for the Humanities, Room 307; and various locations in McCormick Center for Human Services. Students can access the mainframe through a modem at 300/1200/ or 2400 baud. Call (717) 389-4104 for details. Connection is accomplished via TCP-IP over ethernet lines. From these facilities, students can access the mainframe computer to obtain personal information related to course scheduling, advisement, billing, holds, and relevant biographic and demographic information.

Programming languages on UNISYS include: Assembler, COBOL, FORTRAN, and a CODASYL compatible data base. Numerous special purpose languages and packages are available, including statistical and math programs such as SPSS, BMD, BMDP, and MATH Pak.



Codes and Academic Programs

- 01 Developmental Studies
- 05 Health and Physical Education
- 09 Interdisciplinary Studies
- 10 French
- 11 German
- 12 Spanish
- 13 Russian
- 14 Italian
- 16 Languages and Cultures
- 18 Latin
- 20 English
- 25 Communication Studies
- 26 Theater Arts
- 27 Mass Communications
- 28 Philosophy
- 30 Art
- 31 Art History
- 32 Art Studio
- 35 Music
- 40 Economics
- 41 Geography
- 42 History
- 44 Political Science
- 45 Sociology & Social Welfare
- 46 Anthropology
- 48 Psychology
- 50 Biological and Allied Health Sciences
- 51 Earth and Space Science
- 52 Chemistry
- 53 Mathematics
- 54 Physics
- 55 Marine Science
- 56 Computer Science
- 59 Natural Science & Mathematics
- 60 Educational Foundations
- 61 Military Science
- 62 Early Childhood and Elementary Education
- 63 Reading
- 65 Secondary Education
- 67 Military Science-Army
- 70 Special Education
- 71 Teach Mentally Retarded
- 72 Speech Pathology & Audiology

- 74 Communication Disorders
- 79 Professional Studies
- 80 Health Sciences
- 82 Nursing
- 86 Medical Technology
- 89 General Transfer
- 90 Business, General
- 91 Business, Accounting
- 92 Computer & Information Systems
- 93 Business Management
- 94 Business, Office Procedures
- 96 Finance
- 97 Marketing
- 98 Law and Legal Elements Bus. Law
- 99 Administrative

Note: Courses designated with ** are included on the approved list of diversity-focused courses. Students must select two courses (3 semester hours) to fulfill the diversity-focused requirement. See page 90.

Department of Accounting

College of Business

Chairperson

E. Burel Gum

Professors

Richard L. Baker E. Burel Gum

Associate Professors

Michael C. Blue Lester J. Dietterick Robert Hogg Dennis B. K. Hwang Janice C. Shields

Assistant Professors

John E. Dennen Richard E. McClellan Richard Schrader

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in accounting under the business administration degree program.

Goals and Objectives

The accounting curriculum provides specialized knowledge and skills to prepare graduates for entry-level accounting positions in public accounting, private industry, banking, government, higher education, and health care. It also provides the necessary academic preparation to become a certified public accountant.

Required Courses

Required courses include: Accounting 91.221, 91.222, 91.223, 91.321, 91.322, 91.323, 91.324, 91.348; Business Law 98.331, 98.332; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Economics 40.346.

Elective Courses

Select 9 semester hours from courses in business and economics as electives. Accounting courses which may serve as business electives include: 91.430, 91.431,91.448, 91.424, and 91.449. Six semester hours in an internship experience (91.432) also may be applied toward this elective requirement.

Free Electives

Select 11 semester hours in free elective courses. It is highly recommended that students satisfy this requirement with accounting courses.

Note: Graduation requires successful completion of a total of 128 semester hours. Forty percent (52 semester hours) must be earned in courses at the 300 level or above.

General Education Courses

Required General Education courses include: English 20.101 and 20.201; Communication Studies 25.103; Economics 40.246 (or Mathematics 53.123), 40.211, 40.212; Mathematics 53.118. Also required are 3 semester hours in Values and Ethics; 3 semester hours in Fitness and Recreation Skills; 12 semester hours in Humanities and the Arts; 12 semester hours in Social and Behavioral Sciences; and 12 semester hours in Natural Sciences and Mathematics.

ACCOUNTING (Code 91)

91.220 Financial Accounting

3 semester hours

Familiarizes students with a basic understanding of generally accepted accounting principles and their applications. Includes sole proprietorship, partnership, and corporate accounting. General ledger and/or spreadsheet computerized accounting required. For non-accounting majors only.

Prerequisite: 92.150

91.221 Principles of Accounting I 3 semester hours

Presents the accounting cycle covering both service and merchandising activities of a sole proprietorship; special journals and special ledgers, accrued and deferred items and receivables and inventories. General ledger and/or spreadsheet computerized accounting is required.

Prerequisite: 92.150

91.222 Principles of Accounting II 3 semester hours

Further develops the accounting cycle; recording, summarizing, interpreting financial data for partnerships and corporations. Includes cash flow, long-term liabilities, plant assets, and payroll accounting. A practice set and general ledger and/or spreadsheet computerized accounting are required.

Prerequisite: 91.220 or 91.221

91.223 Managerial Accounting

3 semester hours

Presents volume-cost-profit analysis, special decisions, operational and financial budgeting, control and performance evaluation, joborder and process costing, variance analysis, cost allocation, quantitative decision-making techniques, and analysis of financial statements. Students are expected to be proficient in the general use of Lotus 1-2-3 or Lotus 1-2-3 compatible electronic spreadsheets. Students are required to retrieve, modify, complete, save, and print electronic spreadsheets dealing with many of the topics.

Prerequisites: 91.220 or 91.222 and 92.150

91.320 International Accounting 3 semester hours

Addresses needs of accounting and finance students wishing to become more qualified in accounting on a global perspective. Provides an international accounting component for students who have completed foundation courses.

Prerequisites: 91220 or 91.222

91.321 Intermediate Accounting I 3 semester hours

Presents the conceptual framework of accounting, accounting environment and information processing system, financial statements and the accounting standards regarding present and future value concepts, cash and receivables, temporary investments, inventories, and short-term liabilities. Requires the use of Lotus 1-2-3 to solve computer problems in each chapter.

Prerequisite: 91.222

91.322 Intermediate Accounting II 3 semester hours

Presents accounting standards for property, plant, and equipment, intangible assets, income recognition, long-term debts by borrower and lender, formation of corporations and stockholders' equity, retained earnings, stock rights and options, and investments in securities and consolidated financial statements. Requires student to use an approved word processing software package to produce a research paper that analyzes one FASB, reviewing the related accounting literature. Prerequisite: 91.321

91.323 Intermediate Accounting III 3 semester hours

Presents accounting standards pertaining to statement of cash flows, pension plans, leases, earnings per share, income taxes, accounting changes and error corrections, and financial reporting and changing prices. Use of Lotus

1-2-3 to solve computer problems in each chapter is required.

Prerequisite: 91.321

91.324 Federal Tax Accounting

3 semester hours

Introduces basic tax laws pertaining to preparation of individual federal tax returns and supporting schedules. Emphasis on tax law research using federal tax services and contemporary professional literature.

Prerequisite: 91.321

91.342 Auditing Theory and Procedure 3 semester hours

Outlines principles, standards, procedures, and techniques applicable to internal and public auditing; consideration of the audit report and development of working papers for preparation of the report. Use of commercial computer packages to generate audit programs. Use of Lotus templates to work problems and use of word processing package to prepare a research paper.

Prerequisites: 91.322, Economics 40.346

91.348 Cost Accounting

3 semester hours

In-depth study of the three major production costs – raw material, factory overhead, and labor – for a job order cost system.

Prerequisite: 91.321

91.424 Advanced Federal Tax Accounting

3 semester hours

Assigns group and individual projects selected from the following areas of advanced tax accounting; partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Includes lectures, discussion of issues, and practice in the solution of problems. Prerequisite: 91.324

91.430 Advanced Accounting I

3 semester hours

Applies accounting principles to special problems in the consolidation and merger of business enterprises. Includes consideration of the basis for such combinations, consolidated statements on date of acquisition as well as at subsequent dates with special emphasis on design, construction, and utilization of integrated microcomputer-generated worksheets and financial statements.

Prerequisite: 91.322

91.431 Advanced Accounting II

3 semester hours

Focuses on accounting principles and practices of governments and non-profit institutions. Includes partnerships, estates, trusts, and bankruptcy accounting.

Prerequisite: 91.322 or consent of the instructor

91.432 Internship in Accounting

6 semester hours

Provides work experience in the accounting profession.

Prerequisite: 80 semester hours completed and adequate course preparation for the tasks to be performed.

91.448 Advanced Cost Accounting

3 semester hours

Continuation of 91.348, concentrating on process cost, standard cost, and budgets. Emphasis on methods used to analyze and interpret cost data.

Prerequisite: 91.348

91.449 CPA Problems

3 semester hours

Addresses the application of procedures for the solving of a cross section of complex accounting problems and the discussion of theory and practice.

Prerequisites: 91.324, 91.342, and 91.348; senior standing or consent of the instructor

Faculty Credentials

RICHARD L. BAKER

B.S., M.B.A., Bloomsburg State College; Ph.D., The Pennsylvania State University; C.P.A., C.M.A.

MICHAEL C. BLUE

B.S., University of Wisconsin; M.S.B.A., Boston University; M.S., University of Wisconsin; Ph.D., University of Idaho, C.P.A.

JOHN E. DENNEN

B.S., Bloomsburg State College; M.S.B.A., Bucknell University

LESTER J. DIETTERICK

B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University

E. BUREL GUM

B.S., Bloomsburg State College; M.S.B.A., Bucknell University; Ed.D., University of Pittsburgh

ROBERT HOGG

B.S., Temple University; M.S., The Pennsylvania State University; CPA

DENNIS B. K. HWANG

B.A., Chengchi University; M.A., Ph.D., University of Oklahoma; C.P.A., C.M.A.

RICHARD E. MCCLELLAN

B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University; C.P.A.

RICHARD SCHRADER

B.A., Michigan State College; M.S., Central Michigan University; C.P.A.

JANICE C. SHIELDS

B.S.B.A., M.B.A., Clarion University; Ph.D., The Pennsylvania State University

Allied Health Preparatory Programs

Pre-Physical Therapy, Pre-Occupational Therapy, Pre-Cytotechnology, Pre-Pharmacy School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Advisers

Lynne C. Miller, professor, Department of Biological and Allied Health Sciences Cynthia A. Surmacz, professor, Department of Biological and Allied Health Sciences Margaret L. Till, assistant professor, Department of Biological and Allied Health Sciences

Goals and Objectives

The programs in allied health sciences encompass those health areas in which individuals support, aid and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the Essentials. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program Description

At Bloomsburg University the preparatory programs in physical therapy, occupational therapy, pharmacy, and cytotechnology usually span two to four years. Student then transfer to another institution for their clinical training and, upon completion of the program, earn either a degree or certificate. Bloomsburg University does not award specific degrees in these areas.

Students who select these preparatory programs follow a course of study that not only prepares them for entry into a variety of programs at other schools, but provides the option of pursuing a bachelor's degree in biology if they should decide to complete a degree program at Bloomsburg.

The university can not guarantee students placement in allied health programs at other institutions; however, the school boasts an exceptionally high rate of success in matching students with clinical programs and the variety of placement sites is considerable.

The opportunity to obtain degrees in physical therapy, occupational therapy, or cytotechnology is enhanced by an affiliation with Thomas Jefferson University's College of Allied Health Sciences. This agreement facilitates the transfer of students who have completed a minimum of two years preparatory work at Bloomsburg into upper-division baccalaureate and master's programs at Thomas Jefferson University. This "2 plus 2" or "2 plus 3" arrangement couples an educational experience at a rural university with advanced clinical training at a major medical center in Philadelphia. Although the "2 plus 2" arrangement remains in place for most allied health programs, the arrangement for physical therapy is "2 plus 3" and culminates in a master's degree from Thomas Jefferson University. It is important to note that many physical therapy programs are entered after the student has received a baccalaureate degree, and the postbaccalaureate program leads to a master's degree.

Bloomsburg University is an active participant in the PACE (Plan A College Education) program sponsored by Thomas Jefferson University's College of Allied Health Sciences.

PACE is an advanced early admission program for academically talented secondary school seniors who wish to matriculate to Thomas Jefferson University after attending an accredited university for, at least, the first two years.

All colleges of pharmacy in the United States offering the Bachelor of Science in pharmacy require five years of college education for the completion of degree requirements. The five year curriculum is usually divided into two years of pre-pharmacy education and three years of professional pharmacy education. Thus it is a "2 plus 3" program. Students who present credit for pre-pharmacy work done at Bloomsburg University, and for which they have received a grade of C or better, have been given credit for courses which correspond in length and content with those prescribed by the curricula in most colleges of pharmacy accredited by the American Council of Pharmaceutical Education.

Curriculum Requirements

The curricula for these preparatory programs vary. Students are encouraged to design a program that satisfies the requirements of the school to which they intend to transfer. For example, the courses cited below under "Professional Courses" are required by Thomas Jefferson University's physical and occupational therapy programs.

Professional Courses

The following courses are required: English 20.101, 20.201; Sociology 45.211 (not required for physical therapy); Anthropology 45.200 or 45.315 (not required for physical therapy); Psychology 48.101, 48.210 or 48.211, 48.335 (required for occupational therapy only); Biological and Allied Health Sciences 50.110, 50.120, 50.173, and 50.174; Mathematics 53.112 or 53.123 or 53.125.

Chemistry and physics courses are required for the physical therapy program at Thomas Jefferson University. These include: Chemistry 52.115 and 52.131; and Physics 54.111 and 54.112. Students must select additional elective courses to complete 55 semester hours in occupational therapy or 65 semester hours in physical therapy.

Department of Anthropology

College of Arts and Sciences

Chairperson

Robert R. Reeder

Associate Professors

Thomas F. Aleto Robert R. Reeder

Professor

David J. Minderhout

Assistant Professor Dee Anne Wymer

Degree Program

Bachelor of Arts in Anthropology

A total of 36 semester hours is required for a major in anthropology.

Goals and Objectives

Anthropology, the study of humankind, attempts to establish useful information and generalizations about people, their behavior, and their cultural and biological origins, to arrive at the fullest possible understanding of human diversity. Anthropology promotes global cultural awareness through classroom studies of cultures everywhere. Anthropology, in common with other sciences, is concerned with the formulation and testing of hypotheses or tentative explanations of observed human phenomenon. Anthropology also has an important humanistic tradition.

At Bloomsburg University, anthropology is divided into three study areas: cultural anthropology which studies ways of life in societies across the world; physical anthropology which traces human origins and biological variability; and archaeology which seeks to explain human behavior by studying material remains from past cultures. The Department of Anthropology's principle mission is to provide a liberal education for all students. Graduates in this discipline have been very successful in gaining employment in business and government and in preparation for academic careers.

Required Courses

The following courses are required: 46.200, 46.210, 46.220, 46.405, 46.470, and either 46.301, 46.466, 46.475 or 46.497; Sociology 45.260 or Psychology 48.160 or Mathematics 53.141.

Elective Courses

Students may choose five courses, totaling 15 or more semester hours. At least 6 semester hours must come from each of the two subdisciplines: *Archaeology* – 46.300, 46.301, 46.310, 46.311, 46.340; *Cultural Anthropology* – 46.102, 46.260, 46.290, 46.320, 46.350, 46.380, 46.390, 46.410, 46.440, 46.450, 46.466, 46.475, 46.480, 46.495, 46,497. Students contemplating graduate school are advised to take an introductory course in computer science.

General Education Courses

The anthropology department lists suggested courses in other disciplines for majors in the department booklet *Anthropology at Bloomsburg*. With the exception of a needed proficiency in statistics, there are no specific general education courses recommended for this major.

Minor in Anthropology

A minor constitutes 18 semester hours in anthropology. This includes three required courses, 46.200, 46.210, and 46.220, and 9 semester hours from department electives.

Program Emphasis in Prehistoric Archaeology

The Anthropology Department features a special program emphasis in prehistoric archaeology. Students can enroll in multiple archaeology courses in order to gain a professional understanding of academic archaeology and archaeological method and theory. The department offers summer field schools where methods and techniques in archaeological analysis are refined. During summers and upon graduation, students have many opportunities to find temporary or permanent employment in the field of archaeology both in the United States and abroad. The program has provided fieldwork and study in North America, Meso America, and South America.

ANTHROPOLOGY (Code 46)

46.101 Introduction to Anthropology 3 semester hours

A beginning course for students with no background in anthropology. Provides an overview of peoples and cultures of the world today and of the past as well as the fossil evidence for human evolution. Topics may include living primates, magic and religion, and kinship, marriage, and sex roles. Not for students who have taken 46.200, 46.210, 46.220 or who have 65 semester hours.

46.102 **Anthropology and World Problems

3 semester hours

Explores the origins of global problems and evaluates the variety of cultural solutions to those problems. Cultural values and solutions of tribal peoples are investigated holistically and compared to those of industrialized nations in terms of their consequences and implications.

46.200 **Principles of Cultural Anthropology

3 semester hours

Examines a cross-cultural study of all human behaviors in contemporary cultures. Topics surveyed include socialization; language; sex, age, and kinship roles; religion and magic; marriage and the family; political and economic behavior; cultural change; and the arts. Anthropological methodology and the concept of culture also are stressed.

46.210 Prehistoric Archaeology

3 semester hours

Provides a worldwide examination of human prehistory from the origins of agriculture to the development of early writing. Focuses on regional differences and similarities in key evolutionary transitions including sedentary lifeways, urban origins, and the rise of states.

46.220 Human Origins

3 semester hours

Studies the emergence and development of humans, the biological basis of human culture and society, and the origin of the social units of fossil humans.

46.260 Men and Women:

An Anthropological Perspective 3 semester hours

A cross-cultural and evolutionary perspective on sex role behavior in past and contemporary cultures. Sex roles are examined in nonhuman primates as well as in humans. Sex roles in hunting and gathering, horticultural, pastoralist, peasant, and other preindustrial societies are described as well as sex roles in modern industrial societies. Genetic and environmental theories of sex role behavior are discussed and evaluated.

Prerequisite: 3 semester hours of anthropology

46.290 **Race and Racism

3 semester hours

Race is studied from holistic and cross-cultural perspectives. Biological nature of race is explored through investigation of human evolution and archaeology while socio-cultural aspect is considered through a comparative study of racial categories in cultures and societies worldwide.

Prerequisite: 46.200, 46.220, 50.101 or consent of the instructor

46.300 Archaeological Method and Theory

3 semester hours

Describes the nature of archaeological remains and explains how archaeology can be used to answer key questions concerning long-term change in human economic, political, and social behavior. Illustrative examples are drawn from around the world; however, past inhabitants of northeastern United States are given the most intensive examination.

Prerequisite: 46.210 or consent of instructor

46.301 Field Archaeology

3-6 semester hours

Provides field investigation of various prehistoric cultures in northeastern United States. Students learn excavation and recording techniques, visit important sites during field trips, and become part of a unique community that studies our past.

46.310 Aztecs and Mayans

3 semester hours

Surveys the prehistoric cultures of Mexico and Central America. Emphasis on the development of Aztec and Mayan civilizations.

46.311 Archaeology of Northeastern North America

3 semester hours

Surveys the prehistoric cultures of the area from arrival of the first inhabitants through early historic times. Provides a laboratory for the study of broader issues of socio-cultural processes.

Prerequisite: 46.210 or consent of instructor

46.320 **Contemporary World Cultures 3 semester hours

Presents a comparative analysis of selected non-European societies in contrasting cultural and natural areas. Indicates stresses on the natural and social environment; national character; religion and world view; and literary, artistic, and musical expression.

46.340 North American Indians

3 semester hours

Surveys native cultures of North America in prehistoric and early historic periods.

46.350 **Medical Anthropology

3 semester hours

Studies of cross-cultural concepts of health, illness, and curing as well as health care delivery in industrialized cultures. Includes the topics of divination and diagnosis, sorcery and witchcraft in healing, public health and preventive medicine, alcoholism and drug use, and the medical knowledge of tribal and peasant societies.

46.380 Culture Change and Culture Contact

3 semester hours

Examines the modern world with emphasis on emerging new patterns of Western and international culture. Studies the impact of mass society and technology on the environment and humans, and prospects for the future.

Prerequisite: 46.200 or 46.210

46.390 **Socialization of the Child

3 semester hours

Life experience and adjustment of the individual through infancy, middle childhood, and youth. Reviews contrasting methods of introducing children to adult economic, social, and religious activities.

Prerequisite: 46.200

46,405 Primates

3 semester hours

Studies the various phenomena affecting primate behavior; ecology, social life, and sociocultural adaption, with emphasis on the development of socio-biological traits relating to human origins.

Prerequisite: 9 semester hours of anthropology or 46.220 or any biology course

46.410 Primitive Arts

3 semester hours

Studies the graphic arts, music, dance, performance, and literature of prehistoric and modern cultures that lie outside the Great Traditions of art from an anthropological perspective.

Prerequisite: Minimum of 55 semester hours or consent of the instructor

46.440 **Language and Culture

3 semester hours

Studies the place of oral and non-oral language in human evolution and contemporary cultures. Discusses dialectal variation, discourse analysis, multilingualism, language and cognition, and the role of language in education.

46.450 **Peoples and Cultures of South America

3 semester hours

Presents a survey introduction to the aboriginal, non-literature cultures of South America including ecological background, archaeology, and cultural patterns.

Prerequisite: 46.200 or consent of the instructor

46.466 Independent Study in Anthropology

3 semester hours

Independent study by a student with faculty guidance of a particular research problem in anthropology. The research problem either extends current course content or deals with an area not covered in the current course offerings in anthropology. A problem is chosen by the faculty member and the student working together. See section on *Independent Study*.

46.470 History of Anthropological Thought and Theory

3 semester hours

Surveys 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.

46.475 Field Methods in Cultural Anthropology

3 semester hours

Provides class discussion and field experience in participatory observation. Experience in informant interviewing, census taking, kinship charting, mapping, studying complex organizations, and writing ethnographic field reports.

46.480 **Religion and Magic

3 semester hours

A comparative analysis of the origins, forms, elements, and symbolism of religious beliefs and behavior; the role of religion in society with particular reference to nonliterate societies. Anthropological theories and methods of religion, historical and contemporary.

46.495 Special Topics in Anthropology 3 semester hours

Provides for instruction and student research within selected areas of interest not available in other courses.

Prerequisite: 18 semester hours of anthropology or consent of the instructor

46.497 Internship in Anthropology 3-15 semester hours

An on-site training and learning experience in anthropology that provides opportunities to apply theoretical and descriptive knowledge of archaeology, cultural anthropology, and physical anthropology in private and government institutional settings.

**Indicates course approved as diversity-focused.

Faculty Credentials

THOMAS F. ALETO

B.A., University of Notre Dame; M.A., Ph.D., University of Illinois, Urbana-Champaign

DAVID J. MINDERHOUT

B.A., M.A., Michigan State University; Ph.D., Georgetown University

ROBERT R. REEDER

B.A., M.S., The Pennsylvania State University; M.A., University of Colorado

DEE ANNE WYMER

B.A., M.A., Ph.D., The Ohio State University

Department of Art

College of Arts and Sciences

Chairperson

Kenneth T. Wilson Jr.

Professors

Robert B. Koslosky Stewart L. Nagel Associate Professors

Karl A. Beamer Barbara J. Strohman Kenneth T. Wilson Ir.

Assistant Professors

Carol Burns
Gary F. Clark
Christine M. Sperling
Charles Thomas Walters
Vera Viditz-Ward

Degree Program

Bachelor of Arts in Art

A total of 39 semester hours is required for a major in either art history or art studio.

Goals and Objectives

The study of art requires both an inner desire and a firm technical basis to support the artist's growth throughout life. The art department is dedicated to providing an ideal environment for the nurturing of this development within the confines of a liberal arts education. Art professors are committed to excellence in teaching as well as actively involved in their own field of expertise.

Since art is a reflection of society, a study of the history of art is needed to place art of the past and present in the context of our lives. This program addresses the commonality of visual expression among diverse cultures and nationalities .

The studio is used as a means of giving the student a chance to develop skills through mediums of visual expression that will lead to statements of personal worth. Competency is expected within the electronic media as well as the traditional means for students to fully explore their expressive desires. Through explorations in the various arts, the student should understand the richness of the working process as a framework for the end product. In addition to traditional academic study, interaction with the faculty and use of facilities on campus are important to the student's development.

Required Courses for Art History

Required courses include: 24 semester hours in art history courses; 6 semester hours in art studio courses; 3 semester hours in either art education, art history or art studio courses; and 6 semester hours in a foreign language, namely, French, German, Italian, or a language approved by the department chairperson.

Required Courses for Art Studio

Required courses include: 32.151, 32.152, 32.211, 32.212, 32.231, and 32.241; two courses in art history courses; 9 semester hours in either ceramics, fabric design, graphics, painting, photography, sculpture, or weaving plus 6 semester hours in elective courses in art, or 6 semester hours in drawing plus 9 semester hours in elective courses in art.

Minor in Art History

A minor in art history requires 15 semester hours in art history courses plus Art 30.101 for a total of 18 semester hours. A course in art studio also is recommended.

Minor in Art Studio

The minor in art studio requires 15 semester hours in art studio courses, including three levels of a studio specialization, plus Art 30.101 for a total of 18 semester hours. A course in art history also is recommended.

ART (Code 30)

30.101 Introduction to Art

3 semester hours

Reviews great works of art, past and present, with an emphasis on the structure of art as determined by civilization, communication, and expression.

30,205 Children's Art

3 semester hours

Provides encounters with the art of children and ways to promote attitudes of discovery and invention, with emphasis on growth of expression.

30.303 Crafts in Special Education 3 semester hours

Presents a workshop course designed to involve students in a variety of craft experiences for different types of special learners.

30.306 Visual Arts for the Exceptional

3 semester hours

Stresses the importance of art activity, theory, and practice as a means of enriching and stimulating special children's awareness of themselves and their work. Emphasizes those positive aspects for creative activity that the handicapped child possesses. Recommended for special education and psychology majors with junior standing.

30.350 Art Education in the Elementary School

3 semester hours

Reviews theories and techniques basic to the use of art in the elementary school.

30.385 Philosophy and Psychology of Art 3 semester hours

Studies major philosophical points of view governing an understanding and criticism of

the arts, past and present, together with 20th century readings in the psychology of art and content and biology of artistic form.

ART HISTORY (Code 31)

31.215 American Art History

3 semester hours

Studies the history of visual arts in America.

31.225 History of Architecture

3 semester hours

Presents a study-survey of great architectural works of the past and the present including examples of both East and West.

31.235 Ancient and Medieval Art

3 semester hours

Studies the history of the visual arts on the European continent from the prehistoric era up to and including the Late Gothic.

31.236 Art from the Renaissance Through Impressionism

3 semester hours

Studies the history of the visual arts beginning with the Italian Renaissance up to and including French painting of the 19th century.

31.345 Art History of the Near East 3 semester hours

Studies the history of the visual arts of the Islamic and the Mesopotamian worlds.

31.346 Art History of the Far East 3 semester hours

Studies the history of the visual arts of India, China, Japan, and Southeast Asia.

31.355 History of Modern Art

3 semester hours

Examines movement in art from mid-19th century France to the contemporary United States.

31.365 Italian Renaissance Art

3 semester hours

Addresses the painting, sculpture, and architecture of the Renaissance in Italy with a view toward historical and social context, patronage, and theory.

31.375 Independent Study in Art History 3 semester hours

Entails research and scholarship on a selected, approved topic in art history under the supervision of a faculty member, resulting in a publishable paper. See the section on *Independent Study* on page 10.

31.395 Visual Aesthetics

3 semester hours

A seminar emphasizing artistic concern with environmental relationships and theories of aesthetics and art criticism.

31.415 Primitive Arts

3 semester hours

Studies the graphic arts, music, dance performance and literature of prehistoric and modern cultures that lie outside the Great Traditions of art from an anthropological perspective.

ART STUDIO (Code 32)

Level I courses are open to all students.

32.111 Drawing I

3 semester hours

Examines various approaches toward drawing and explores the use of a variety of drawing materials. Studio practice and class critiques address each person's power of observation, craftsmanship, self-expression, and growth.

32.151 Three-Dimensional Design

3 semester hours

Introduction to the basic elements and principles of design such as the organization of visual elements and color, with emphasis on three-dimensional design.

32.152 Two-Dimensional Design

3 semester hours

An introduction to the basic elements and principles of design such as the organization of visual elements and color, with an emphasis on two-dimensional design.

32.195 Computer Art Graphics

3 semester hours

An introductory course that explores the potential of the computer as a tool to create fine art. Images based on current computer technologies are stressed. Use of software and computers to create new kinds of images are a primary concern. An understanding of new technologies can be an important tool for an artist to become sensitive to his or her culture. Using technologies with a fine arts approach, students make significant discoveries for development into their own creative work.

32.201 Ceramics I

3 semester hours

Introduces the processes of making and firing ceramic objects.

32,202 Ceramics II

3 semester hours

Affords students the opportunity to become more involved by selecting their own methods of work.

Prerequisite: 32.201

32.212 Drawing II

3 semester hours

Continues exploration of attitudes and materials stressing composition and form. Includes work from the human skeleton and linear perspective.

Prerequisite: 32.111

32.221 Fabric Design I

Fall 3 semester hours Introduction to a variety of methods, approaches, tools, materials, and visual concepts in designing with fibers.

32.222 Fabric Design II

Fall 3 semester hours
Continuation of 32.221 with limited areas of

concentration selected by each student. Professional methods, approaches, and attitudes discussed.

Prerequisite: 32.221

32.231 Painting I

3 semester hours

Introduction to the methods, materials, and concepts of painting. Provides exploration of and increased sensitivity to one's environment through color.

32.232 Painting II

3 semester hours

Devotes attention to the development of the technical skill inherent in the formation of images. Includes the study of the landscape as a concept in painting.

Prerequisite: 32.231

32.241 Sculpture I

3 semester hours

Explores three-dimensional artistic expression with an emphasis on introducing a student to basic sculptural materials.

32.242 Sculpture II

3 semester hours

Promotes continued development in the use of materials and processes; strives for unique individual expression.

Prerequisite: 32.241

32.251 Weaving I

Spring 3 semester hours

Provides an introduction to weaving including foot-powered looms and off-loom techniques. Weaves, fibers, spinning, and looms will be part of the studio experience.

Prerequisite: 32.152 or consent of instructor

32.252 Weaving II

3 semester hours

A loom-controlled sampler is required plus continued experience in weaving techniques and artistic decision dealing with fibers.

Prerequisite: 32.251

32.261 Graphics I: Printmaking

3 semester hours

Introduction to the methods, materials, and concepts of graphic art through exploration of basic printmaking techniques.

32.262 Graphics II: Printmaking

3 semester hours

Emphasis on color printmaking and color registration procedures. Provides a concentration in serigraphy and intaglio techniques. Prerequisite: 32.261

32.273 Design III

3 semester hours

Advanced design problems undertaken stressing individualized productions, involvement, and individual expression through design. Prerequisites: 32.151, 32.152

32,275 Crafts I

3 semester hours

Introduction to a varied array of crafts, methods, tools, materials, techniques, and artistic concepts.

32,276 Crafts II

3 semester hours

Provides a continued exploration of selected in-depth crafts processes and concepts on a more professional basis.

Prerequisite: 32.275

32.281 Photography I

3 semester hours

Introduction to black and white photography as a medium of visual expression. Technical emphasis on fundamental camera and exposure controls and introduction to darkroom printing techniques. Photographic style, composition, and theory discussed. Students must have a 35mm camera and provide their own film and paper.

32.282 Photography II

3 semester hours

Continues exploration of black and white fine art photography. Emphasis on refining exposure and printing skills. Introduces zone system metering, medium format photography, and alternative photographic processes. Students must have a camera and provide their own film and paper.

Prerequisite: 32.281

32.303 Ceramics III

3 semester hours

Provides student an opportunity to specialize through the pursuit of making an art object.

Prerequisite: 32.202

32.304 Ceramics IV

3 semester hours

Requires students to be responsible for making, firing, and showing their own wares.

Prerequisite: 32.303

32.313 Drawing III

3 semester hours

Entails studio practice, outside assignments, and critiques in pursuit of self-discovery and personal expression. Each student completes an individual project.

Prerequisite: 32.212

32.314 Drawing IV

3 semester hours

Continues studio practice and outside assignments Critiques stress individuality and deep involvement of personal expression. Each student pursues an individual project. Prerequisite: 32.313

32.323 Fabric Design III

Fall 3 semester hours

Provides a continuation of Fabric Design II with concentration in one area selected by the student. Focus is on refining one's craft, visual perception, and professional attitude.

Prerequisite: 32.222

32.324 Fabric Design IV

Fall 3 semester hours

Presents a continuation of Fabric Design III with each student functioning in a highly independent and professional manner in one area.

Prerequisite: 32.323

32.333 Painting III

3 semester hours

Provides development toward maturity of study and statement. Includes study of the figure as a concept in painting.

Prerequisite: 32.232

32.334 Painting IV

3 semester hours

Provides advanced work planned for individual needs. Paintings are structured from experiences based on previous development.

Prerequisite: 32.333

32.343 Sculpture III

3 semester hours

Focuses on the expansion of expression and its relationship to sculptural processes.

Prerequisite: 32.242

32.344 Sculpture IV

3 semester hours

Enables advanced, independent work toward a maturing, personal expression in sculpture.

Prerequisite: 32.343

32.353 Weaving III

Spring 3 semester hours

Provides continued experience in weaving techniques with emphasis on in-depth production, two-dimensional or three-dimensional.

Prerequisite: 32.252

32.354 Weaving IV

Spring 3 semester hours

Develops an individualistic approach to weaving with emphasis on in-depth production.

Prerequisite: 32.353

32.363 Graphics III: Printmaking

3 semester hours

Exploration of mixed media printmaking methods and concepts. Emphasizes photographic and lithographic techniques.

Prerequisite: 32.262

32.364 Graphics IV: Printmaking 3 semester hours

Exploration of experimental printmaking. Emphasis on personal expression.

Prerequisite: 32.363

32.380 Jewelry Making

3 semester hours

Studies jewelry forms, past and present, from the standpoint of both utility and design. Problems in wood and metals, ceramics, glass, and plastics, exploring contemporary jewelry forms and processes.

32.383 Photography III

3 semester hours

Students develop personal photographic projects to produce during the semester. Emphasizes individual exploration of black and white photographic materials and processes. Students must provide a 35 mm camera, film, and paper.

Prerequisite: 32.282

32.384 Photography IV

3 semester hours

Students produce personal photographic projects resulting in final portfolios and an exhibition of fine art photographic prints. Students must provide a 35mm camera, film, and paper.

Prerequisite: 32.383

32.395 Art and Culture of France 3 semester hours

Provides a study-tour of France with specific attention to French art seen in relation to its social and cultural environment. Features a new theme and visits to related areas each time course is offered. Past themes include "The Age of Francis I," "The Art of Provence," and "The Normandy Influence."

32.475 Independent Study in Studio Arts I

1-3 semester hours

Allows individualized independent study in a selected studio area. Amount of course credit awarded is determined by the instructor on the basis of the substance and depth of the

project to be undertaken. See the section on *Independent Study* on page 10.

Prerequisite: Satisfactory completion of four levels of a studio area or its equivalent

32.476 Independent Study in Studio Arts II

1-3 semester hours

Extension of 32.475 Independent Study in Studio Arts I.

32.480 Internship in Art

3-6 semester hours

Provides upper-level art majors with an opportunity to acquire meaningful experiences in practical work situations outside the regular courses prescribed by art curriculum (e.g., museum curator, designers, merchandising operations, artists).

32.490 Art Gallery

3 semester hours

Provides involvement with the collection, preservation, and exhibition of art work. Experience concludes with planning and hanging an exhibition in Haas Gallery of Art. Visits to museums and art galleries familiarize students with the varied nature and philosophy of exhibition today.

32.495 Independent Study in Art Media 3 semester hours

Stresses individual projects in the plastic arts not covered by other studio course offerings and in-depth explorations, innovative uses, and applications of selected art media. See catalog section on *Independent Study* on page 10.

Faculty Credentials

KARL A. BEAMER

B.S., Kutztown State College; M.F.A., The Pennsylvania State University

CAROL BURNS

B.S., The Pennsylvania State University; M.A., University of Northern Colorado; M.F.A., Cranbrook Academy of Art

GARY F. CLARK

B.F.A., Maryland Institute College of Art; M.A., West Virginia University

ROBERT B. KOSLOSKY

B.S., M.Ed., Kutztown State College; Ph.D., The Pennsylvania State University

STEWART L. NAGEL

B.F.A., Cooper Union; M.F.A., Pratt Institute

CHRISTINE M. SPERLING

B.A., M.A., University of Oregon; Ph.D., Brown University

BARBARA J. STROHMAN

B.S., University of Maryland; M.F.A., Maryland Institute College of Art

CHARLES THOMAS WALTERS

B.M., DePauw University; M.F.A., University of Wisconsin; Ph.D., University of Michigan

VERA VIDITZ-WARD

B.F.A., Hartford Art School/University of Hartford; M.F.A., Indiana University

KENNETH T. WILSON IR.

B.S., Edinboro State College; M.S., The Pennsylvania State University

Department of Biological and Allied Health Sciences

College of Arts and Sciences

Chairperson

Louis V. Mingrone

Professors

James E. Cole Judith P. Downing Phillip A. Farber Frederick C. Hill Lynne C. Miller Louis V. Mingrone Cynthia A. Surmacz

Associate Professors

George P. Chamuris, assistant chairperson

George J. Gellos Thomas S. Klinger Mark S. Melnychuk James E. Parsons Robert G. Sagar

Assistant Professors

Joseph P. Ardizzi John R. Fletcher Judith Kipe-Nolt Margaret L. Till

Degree Programs

Bachelor of Science in Biology, Bachelor of Arts in Biology A total of 38 semester hours is required for a major in biology.

Goals and Objectives

The Bachelor of Science program in biology provides a rigorous background in biology, chemistry, physics, and mathematics. The program meets the needs of students who plan to enter graduate studies, the medical field, or professions that require in-depth preparation in the natural sciences.

In contrast, the Bachelor of Arts program allows more freedom in choosing courses and enables students to gain a broad-based background in the natural sciences. This flexibility gives students the opportunity to tailor a program to their specific interests, backgrounds, and career objectives.

Students pursuing either degree program may elect an option in microbiology. The required courses in microbiology specified under the option are identical for both programs of study.

The marine science option, which is also open to majors in both bachelor's programs, provides students with the opportunity to specialize in marine biology while obtaining a general background in the biological sciences. At least four courses, totaling 12 semester hours, must be taken at the Marine Science Center in Virginia.

Graduates in biology have entered medical, veterinary, dental, graduate, and paramedical schools. They are employed in federal, state, and local agencies as biologists, ecologists, and naturalists. They have found employment in laboratories operated by universities, pharmaceutical companies, private industry, and government agencies. Others have gone on to earn advanced degrees in the biological or health sciences.

Recommended General Education Courses

Non-biology majors may select any biology courses designated with the 50 or 55 code in General Education Group C, Natural Sciences and Mathematics, providing they have met the prerequisites. Exceptions include those courses specifically reserved for biology/allied health students and the following: 50.205, 50.230, 50.254, and 50.281-89. Suggested courses include: 50.101, 50.102, 50.111, 50.120, 50.231, and 50.240.

Required Courses for Bachelor of Science in Biology

Biology 50.110, 50.120, 50.242, 50.271, 50.332, 50.351, 50.380; 50.371 or 50.372 or 50.475 and additional biology courses for a minimum of 38 semester hours. Chemistry 52.115 and 52.131; 52.216, 52.232, and 52.341. Physics 54.111 and 54.112, or 54.211 and 54.212; Mathematics (6 semester hours) 53.141 or Psychology 48.160 and 53.123; or 53.141 or Psychology 48.160 and 53.125; or 53.125 and 53.126. Languages and Cultures at least one semester of any foreign language at the 102 level or above.

In this degree program, students may choose an option in microbiology or marine biology.

Required Courses for Bachelor of Arts in Biology

Biology 50.110, 50.120, 50,242, 50.271, 50.332, 50.351, and 50.380; 50.371 or 50.372 or 50.475; and additional biology courses for a minimum of 38 semester hours. Chemistry 52.115 and 52.131; 52.216 and 52.341. Mathematics (9 semester hours) 53.123, 53.141 or Psychology 48.160, and Computer Science 56.110. Languages and Cultures at least one semester of a foreign language at the 102 level or above.

In this degree program, students may choose an option in microbiology or marine biology.

Microbiology Option

The option provides a biology major the opportunity to specialize in microbiology while obtaining a general background in biology. The option is also open to medical technology majors; see the section on *Medical Technology*. The requirements for this option are the same for the Bachelor of Science program as they are for the Bachelor of Arts program.

Biology 50.110, 50.120, 50.271, 50.332, 50.351, 50.380; 50.371 or 50.372 or 50.475.

Microbiology 50.242, 50.342, and 50.343.

Electives (9 semester hours) Choose from: 50.350, 50.432, 50.442, 50.450, 50.455, or 50.470.

Marine Biology Option

This option provides the biology major with the opportunity to specialize in marine biology while obtaining a general background in biological sciences. The marine biology option is made possible by the department's membership in the Marine Science Consortium, which maintains the Marine Science Center. See Code 55 on page 139 for course descriptions.

Minor in Biology

The minor in biology consists of 22 semester hours. Required courses are: 50.110, 50.120, 50.242, 50.271, and at least two courses (6 semester hours) at the 300-level or above that are chosen from departmental offerings acceptable to the major. These may not include: 50.380 Biology Seminar, 50.390/.391 Independent Study in Biology I and II, 50.490 Internship in Biology, or Cooperative Education.

Allied Health

Curricula for medical technology, radiological technology, pre-physical therapy, pre-occupational therapy, pre-cytotechnology, and health services associate are detailed in the sections on *Medical Technology* on page 254, *Radiological Technology* on page 301, *Allied Health* on page 117 and *Health Services* on page 210..

Cooperative Education/Internship/Independent Study

The department provides opportunities for students to engage in cooperative education, internships, and independent study. Only 6 semester hours can be applied as biology electives from the following courses: 50.279, 50.390, 50.391, 50.479, 50.490, and 50.493.



BIOLOGICAL AND ALLIED HEALTH SCIENCES (Code 50)

Courses described under Code 50 on pages 132-137 are for biology majors; courses on pages 138,139 are for non-biology majors.

50.110 Biology of Animals

4 semester hours

Introduces fundamental principles of zoology as applied to representative groups of animals. Laboratory work emphasizes comparative development, anatomy, physiology, and behavior of representative animals. Three hours lecture/3 hours laboratory per week.

50.120 Biology of Plants

4 semester hours

Introduces fundamental principles of taxonomy, anatomy, morphology, physiology, and genetics as applied to the plant kingdom. Three hours of lecture/3 hours laboratory per week.

50.211 Invertebrate Zoology

3 semester hours

Studies the principal phyla of invertebrate animals in relation to their anatomy, classification, and behaviors in the ecosystems in which they participate. Field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs. Three hours lecture/2 hours laboratory per week.

Prerequisite: 50.110.

50.212 Vertebrate Zoology

Fall 3 semester hours

Studies the biology of vertebrate animals, emphasizing natural history, physiology, morphology, and behavior. Reviews evolutionary and ecological aspects of each class. Includes laboratory work with living and preserved specimens to familiarize students with representative individuals of the major classes of this group. Field trip component at the Marine Science Consortium, Wallops

Island, Va., includes additional student costs. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110

50.221 Comparative Biology of Nonvascular Plants

3 semester hours

Provides a phylogenetic study of major non-vascular plants with an emphasis on development, structure, reproduction, and selected ecological aspects. Two hours lecture/3 hours laboratory per week.

Prerequisite: 50.120

50.222 Comparative Biology of Vascular Plants

3 semester hours

Provides a phylogenetic study of major vascular plants with emphasis on their development, structure, reproduction, and selected paleobotanical aspects. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.120

50,233 Human Genetics

3 semester hours

Explores the principles of human genetics and their application to problems in anthropology, biology, medicine, psychology, sociology, and special education. Three hours of lecture/discussion per week.

Prerequisite: 50.101, 50.110, or 50.120 or

consent of the instructor

50.242 Biology of Microorganisms 4 semester hours

Introduces the fundamental principles of nomenclature, classification, microscopy, cytology and anatomy, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control are integrated into a systematic approach to classical microbiology as it relates to humans and the environment. Three hours of lecture/3 hours of laboratory per week.

50.252 Field Zoology Summer/odd-numbered years

3 semester hours

Studies common vertebrates (excluding birds) of North America with emphasis on observation, collection, and recognition of local fauna. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110 or consent of instructor

50.253 Freshwater Biology

Summer 3 semester hours

Emphasizes the chemical, physical, and biological aspects of freshwater environments. Two hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.110 and 50.120 or consent of the instructor

50.263 Field Botany Summer/even-numbered years

3 semester hours

Addresses identification and classification of seed plants represented in local flora. Two hours of lecture/3 hours laboratory per week. Prerequisite: 50.120 or consent of instructor

50.271 Cell Biology

4 semester hours

Examines the structure and function of the cell and its organelles. Emphasis on general principles and processes by which all cells function. Three hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.110 or 50.120 and 52.115 or 52.118.

50.279 Cooperative Education in Biology and Allied Health Sciences

3-6 semester hours

A work-study program open to students majoring in the biological sciences with a minimum of 32 semester hours earned. Differs from internship 50.490 in that Cooperative Education must be paid and is a two-opportunity experience, with the first experience generally undertaken soon after 32 credits are earned. The two experiences may total from 9 to 12 hours since one of the two must be fulltime (equivalent to 6 semester hours) and

the second may be part time (3 semester hours) or full time. A cumulative total of 15 semester hours, including credit in 50.490, may be taken with a maximum of 6 semester hours counted toward requirements for the major.

Prerequisite: Open only to students majoring in the biological sciences who have earned at least 32 semester hours

50.290 Writing in Biology

3 semester hours

Provides experience in types of communication useful in a natural science with a basis in experimentally acquired information. Emphasizes types of written communication; includes oral presentations.

Prerequisites: English 20.101 or 20.104 and completion of two biology courses (50.110, 50.120 or 50.242). Word processing skills are highly recommended.

50.331 Embryology Springleven-numbered years

3 semester hours

Reviews the patterns, processes, and principles of animal development. Laboratory studies emphasize descriptive embryology of a number of representative vertebrates with emphasis on amphibian, avian, and mammalian development. Field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110 or consent of instructor

50.332 Genetics

3 semester hours

Addresses mechanisms of heredity in animals and plants; Mendelian inheritance, linkage, probability, crossing over, chromosomal modifications, nucleic acids, and gene action. Three hours of lecture/2 hours of laboratory per week. Laboratory hours may vary. Prerequisite: 50.271

50.342 Medical Bacteriology

4 semester hours

Provides a study of bacteria capable of caus-

ing disease in humans. Emphasizes laboratory aspects of bacterial disease but includes pathogenicity, identification, diagnosis, treatment, and prevention. Three hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.242 and 50.271

50.343 Immunology

3 semester hours

Introduction to components and functions of human immune system; application of immunology to infectious disease, blood transfusion, organ transplantation, and cancer; consideration of conditions involving the immune system such as immunodeficiencies (AIDS), allergies, and autoimmune diseases. Prerequisites: 50.271; and a background in genetics, organic/biochemistry, and/or infectious diseases recommended

50.350 Plant Pathology

3 semester hours

Examines the nature of vascular plant diseases, the biology of plant pathogens, and the impact of diseases on human affairs. Lecture stresses principles of plant pathology: disease and pathogen classification, modes of pathogenesis, host response to disease, and disease control. Laboratory stresses identification of plant pathogens and disease symptoms, histology of diseased tissues, and research techniques. Three hours of lecture/2 hours of laboratory per week.

Prerequisites: 50.242 and 50.271; or consent of the instructor

50.351 General Ecology

3 semester hours

Introduces principles and concepts pertaining to energy flow, limiting factors, habitat studies, succession patterns, and population studies at the species, interspecies, and community level. Field trip component at the Marine Science Consortium, Wallops Island, Va., may incur additional student costs for food and lodging. Two hours lecture/3 hours laboratory per week.

Prerequisite: 50.110 or 50.120 or consent of the instructor

50.361 Comparative Vertebrate Anatomy Spring/odd-numbered years

3 semester hours

Presents a comparative study of the chordates emphasizing the vertebrate classes. Attention given to structure, morphogenesis, functional adaptations, and evolutionary trends. Laboratory emphasis is placed on the lamprey, shark, and cat. Field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs. Two hours of lecture/3 hours of laboratory per week.

Prerequisite: 50.110 or consent of instructor

50.364 Vertebrate Histology

3 semester hours

Studies the structure and function of vertebrate cells and tissues from various body systems. Laboratory studies include the use of prepared microscope slides and color photomicrographs. Two hours lecture/3 hours laboratory per week.

Prerequisite: 50.271 or consent of instructor

50.365 Histological and Histochemical Techniques

3 semester hours

Provides theory and practice in the use of histological and histochemical techniques in a laboratory format. Fixation, preparation embedding, sectioning, and staining of various animal tissues. One hour lecture/4 hours laboratory per week.

Prerequisites: 50.364 or Chemistry 52.131 recommended or consent of the instructor

50.371 Principles of Mammalian Physiology

4 semester hours

Studies principles of cell physiology that are basic to the function of the following mammalian tissue and systems; blood, metabolic, neuromuscular, cardiovascular, and urinary. Neural and chemical processes of the aforementioned are emphasized. Three hours of lecture/3 hours of laboratory per week.

Prerequisites: 50.271 and Chemistry 52.131, and 52.216, or consent of the instructor. A background in organic chemistry and algebra and, at least, Sophomore standing recommended.

50.372 Plant Physiology

Spring 3 semester hours

An introduction to plant function including discussions of water relations, carbohydrate metabolism and translocation, photosynthesis, mineral nutrition, plant growth hormones, and growth and development. Three hours lecture per week.

Prerequisites: 50.120 and 50.271; Chemistry 52.131 or 52.216 or consent of instructor

50.380 Biology Seminar

1 semester hour

Emphasizes preparation and presentation of biological topics in both oral and written formats.

Prerequisite: Junior standing or minimum of 64 semester hours completed

50.390 Independent Study in Biology I 1-3 semester hours

Acquaints students with techniques of scientific research, data collection, and analysis by engaging in a program of research with the aid of a faculty member. Research culminates in a scholarly paper written by the student that presents findings of the laboratory or field investigation in a form suitable for publication.

Prerequisite: Junior standing

50.391 Independent Study in Biology II 1-3 semester hours

Acquaints students with techniques of scientific research, data collection, and analysis by engaging in a program of scientific research with the aid of a faculty member. See section on *Independent Study* on page 10.

Prerequisites: 50.390 and Junior standing

50.411 Radiation Biology

3 semester hours

Studies the effects of radiation on living organisms; nuclear structure; fundamental properties of radiation; physical, chemical, and genetic effect on plants and animals from cells to whole-organisms; the application of

radiochemicals in biological studies.
Prerequisites: 52.216, and Physics 54.112 or
54.212 or consent of instructor

50.430 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 of lecture per week.

Prerequisites: 50.110 or 50.120; 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 genetic recombination, plasmids, transposons, and recombinant DNA. Two hours of lecture and 3 hours of laboratory per week.

Prerequisites: Consent of instructor or two courses from 50.242, 50.332, and Chemistry 52.341

50.441 Cytogenetics

3 semester hours

Examines structure and behavior of chromosomes and their effects on development. Describes human genetic syndromes and the effects of chromosome abnormalities. Explores relationships between chromosomes, oncogenes, and cancer. Laboratory studies include cell culture methods, microscopic techniques, and karyotype preparation. Two hours of lecture/2 hours of laboratory per week.

Prerequisites: 50.233 or 50.332 and 50.271; or consent of the instructor

50.442 Virology of Mammals

3 semester hours

Introduces viral structure, classification, replication, genetics, and pathogenesis. Studies entail the diagnosis, prevention, and treatment of viral infection, and families of viruses that cause disease in humans and other mammals. Includes such current topics as AIDS

and tumor virology.

Prerequisites: At least one course from 50.332, 50.342, 50.343, Chemistry 52.341; background in microbiology recommended

50.450 Mycology

3 semester hours

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

Prerequisites: 50.271; one course in genetics recommended; or consent of the instructor

50.455 Environmental Microbiology 3 semester hours

Aspects of applied microbiology as related to some fundmentals of public health, food contamination, water pollution, and sanitation. Emphasis on related laboratory testing procedures. Four hours per week. Additional time may be required.

Prerequisite: 50.242

50.457 Entomology

Summer 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 a minimum of 5 hours per week including laboratory.

Prerequisite: 50.110

50.458 Fungal Ecology

3 semester hours

A broad treatment of the ecology of fungi, examination of such topics as fungal decomposition of wood and bark, fungal decomposition of forest litter, ecology of aquatic fungi, community structure of soil and/or dung fungi, ecology of predaceous fungi, and as-

pects of mycorrhizal symbioses. Topics vary with each semester. Laboratory includes field component and stresses demonstration of basic principles, testing existing and formulating new hypotheses, and research techniques. Two hours of lectures/3 hours of laboratory per week.

Prerequisite: 50.351 or concurrent enrollment or consent of the instructor

50.459 Ornithology

3 semester hours

Studies the biology of birds including bird identification in the field by song and sight. Studies birds of this region in relation to migration, time of arrival, and nesting. Two hours of lecture/3 hours of laboratory per week. Some study off-campus may be required. The field trip component at Marine Science Consortium, Wallops Island, Va., includes additional student costs.

Prerequisite: 50.110 or consent of instructor

50.461 Ethology

3 semester hours

In depth introduction to modern ethology. Emphasizes current models of animal behavior and theoretical foundations of ethology. Research and project oriented. Students may incur additional cost due to the field trip component at Marine Science Consortium, Wallops Island, Va. Three hours of lecture/2 hours of laboratory per week.

50.462 Plant Anatomy

3 semester hours

Outlines recent concepts of plant anatomy and historical consideration of classical researchers. Reviews the structure, function, growth, and morphogenesis of the vascular plants. Addresses composition and growth of meristems and the phenomena of subsequent tissue differentiation. Describes anatomical organization by developmental and comparative methods in order to explain important cell, tissue, and organ relationships. Two hours of lecture/3 hours of 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, film strips, autoradiography, nature work in close-ups, photomicrography, thesis illustration, and other special techniques. Two hours of lecture and 3 hours of laboratory per week. Additional laboratory hours may be required.

Prerequisite: Open only to majors in biology or allied health with at least Junior standing

50.470 Medical Parasitology

3 semester hours

Presents life history, physiology, taxonomy, and morphology of parasites of medical importance to humankind. 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, the proper handling of specimens, and methods of professional patient interviewing. Five hours per week.

Prerequisite: 50.110 and Chemistry 52.131 or 52.216, or consent of the instructor. Completion of additional coursework in biology recommended.

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 of lecture/2 hours of laboratory per week.

Prerequisite: 50.371 and Chemistry 52.216 or 52.232 or consent of instructor. A background in algebra recommended.

50.475 Cell Physiology

3 semester hours

Applies physical and chemical principles to cellular processes, biochemistry or cellular constituents, physiochemical environment, bioenergetics, and intermediate metabolism. Three hours lecture and discussion per week.

Prerequisites: 50.271 and 6 semester hours of biology; Chemistry 52.216 or 52.232 or consent of the instructor

50.479 Cooperative Education in Biology and Allied Health Sciences

3-6 semester hours

A work-study program open to biological science majors who have completed 50.279. Differs from Internship 50.490 in that Cooperative Education must be paid and is at least a two-opportunity experience. The two cooperative education experiences may total from 9 to 12 semester hours since one of the two must be full-time (equivalent to 6 semester hours), and the second may be part-time (3 semester hours) or full-time (6 semester hours). A cumulative total of 15 semester hours, including credit in 50.490, may be taken with a maximum of 6 semester hours counted toward the major.

Prerequisite: 50.279

50.481-.489Advanced Special Topics, Biology/Allied Health Sciences 3 semester hours

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

Prerequisite: Determined by the instructor

50.490 Internship in Biology and Biology Research

3-15 semester hours

A work-study program open only to juniors and seniors majoring in biology and allied health sciences. A maximum of 6 semester hours may apply toward a major in biology or allied health sciences.

50.493 Honors Independent Study Biology Research

3 semester hours

Open only to students admitted to the Honors Program. Consists of a field or laboratory investigation under the supervision of a biology faculty member.

Prerequisite: 50.390

Courses not applicable to biology major.

50.101 General Biology I

3 semester hours

Presents major concepts and principles of biology relating to humans. Lecture and discussion.

50.102 General Biology II

3 semester hours

Studies biology from the ecological, evolutionary, and behavioral perspective with emphasis on humankind.

Prerequisite: 50.101

50.107 Medical Terminology

1 semester hour

Studies roots, prefixes, and suffixes of medical terms via programmed instruction. Recommended for students in the health sciences. Pass/fail credit only.

50.111 General Biology Laboratory

Offers "hands-on" experience emphasizing biological concepts. Two hours laboratory per week.

Prerequisite: 50.101 or concurrent

50.173 Anatomy and Physiology I 4 semester hours

An introductory course integrating the structure and function of the human body. Covers fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. Three hours of lecture/3 hours of laboratory per week.

50.174 Anatomy and Physiology II 4 semester hours

Introductory course integrating the structure and function of the human body. Covers blood and defense mechanisms, cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, nutrition, urinary system, fluid and electrolyte balance, endocrine system, reproductive system,

growth and development, and human genetics. Three hours lecture/3 hours laboratory per week.

Prerequisite: 50.173 or consent of instructor

50.205 Introduction to Nutrition

3 semester hours

A foundation of nutritional concepts and practices that can be applied to personal lives and incorporated into careers. Concepts include nutritional requirements for optimal health and performance throughout the life span, making food choices in the market-place, analyzing nutritional information in the media, and controversial issues in nutrition and health.

50.230 Human Sexuality

3 semester hours

Presents an overview of the role of sexuality in the life of humans. Considers anthropological, biological, psychological, and sociological aspects of sexuality. Addresses values, ethics, and responsible decision making. Additional cost for field components and student projects. Two hours lecture and one and one-half hours discussion per week.

50.231 Biology of Aging

3 semester hours

The biological mechanisms of the aging process are discussed with special emphasis on these processes in humans. Discussions include studies of aging at the molecular, cellular, systems, and organism levels of organizations. Three hours lecture per week.

50.240 Introductory Microbiology 3 semester hours

Presents elementary aspects of morphology, metabolism, and cultivation of bacteria, viruses, and other microorganisms with consideration of their relationship to public health and various industrial processes. Two hours lecture and 2 hours laboratory per week.

50.254 Social Implications of Biology 3 semester hours

Explores the societal implications of current thought in biology. Addresses values, ethics,

and responsible decision making. Three hours of lecture and discussion per week.

50.281 Special Topics, Allied Health 50.289

1-3 semester hours

Presents an area of biology or allied health of interest to a general audience.

Prerequisite: Determined by the instructor

50.366 Anatomy and Physiology: Head, Neck, and Thorax

Spring 3 semester hours Focuses on the anatomy, physiology, and development of the head, neck, and thorax. Emphasizes the organ systems that relate to the hearing and speech mechanisms. Three hours lecture/2 hours laboratory per week. Preference given to students in communication disorders.

Marine Science

Marine science courses are offered in the summer at the Marine Science Center near Wallops Island, Va. Courses in biology are offered by the Marine Science Consortium to satisfy requirements for the marine biology option and are acceptable as elective credit for biology majors. For more information, contact the adviser to the marine biology option. For related marine science courses, see the listing under the catalog section on *Earth Science/Geology* on page 163.

MARINE SCIENCE (Code 55)

55.221 Marine Invertebrates

3 semester hours

A study of the life, history, habits, origin, development, physiology, anatomy, and taxonomy of the main phyla of invertebrates. A phylogenetic sequence is followed to show interrelationships among the phyla. Special emphasis is given to the Atlantic marine invertebrates. Laboratory and field work deal with collection, preservation, and identification of local species.

Prerequisite: One year of biology or consent of the instructor

55.241 Marine Biology

3 semester hours

A study of plant and animal life in the marine environment. Emphasis on physical and chemical environmental factors affecting the biota in the intertidal, open water, and benthic habitats. Common biota characteristics of each habitat will be investigated in terms of their natural history, morphology, and ecological relationships.

Prerequisite: Botany or zoology, or consent of the instructor

55.250 Wetland Ecology

3 semester hours

Structure and function of wetland ecosystems with special emphasis on coastal wetlands. Considers the impact of humans on wetlands and ecological approach toward their management. Laboratory consists of field exercises in the study of wetlands.

Prerequisite: A course in ecology, upperclass standing

55.260 Marine Ecology

3 semester hours

Interrelationships among animals, plants, and physical and chemical aspects of the environment studied, with stress on adaptations for survival that are unique to the marine environment.

55.298 Physiology of Marine Invertebrates

3 semester hours

Mechanisms and regulation of organ function in marine invertebrates with emphasis on homeostasis. Invertebrate examples of fundamental principles and unique mechanisms.

Prerequisite: Introductory biology

55.300 Behavior of Marine Organisms 3 semester hours

Concepts of ethology; discussion and observation of the influence of external and internal factors on the regulation; and control of

behavior of organisms living in the marine coastal environment.

Prerequisite: General biology

55.320 Marine Microbiology

3 semester hours

A survey of methods and concepts of marine microbiology. Focus on the technical aspects of sample collection, microbial ecology of the marine environment, enrichment culturing, and methods of enumeration and identification with emphasis on marine bacteria.

Prerequisite: One year of biology

55.330 Tropical Invertebrates

3 semester hours

Introduction to tropical invertebrates, using a variety of collection and observation methods to sample nearshore and reef areas. Emphasis on systematics and ecology using the communities approach. One week at Wallops Island, Va., for intensive review of general systematics and ecology of marine invertebrates; then two weeks in Florida sampling and identifying species and describing ecological communities. Course is a sequel to marine invertebrates or a landlocked invertebrate zoology course or a thorough landlocked zoology course.

Prerequisite: Marine invertebrates, invertebrate zoology, or a thorough zoology course with consent of the instructor

55.334 Marine Embryology

3 semester hours

Principles of development and differentiation in marine organisms at the molecular and supramolecular levels of organization. Laboratory includes both descriptive and experimental embryology.

Prerequisite: Introductory biology course

55.342 Marine Botany

3 semester hours

Taxonomy, physiology, ecology, and economic importance of marine and coastal plants as exemplified by those found on the Delmarva Peninsula. Laboratory techniques include collecting, preserving, identifying, and analyzing plants and plant materials,

appropriate instrumentation to be used. Emphasis on in-the-field studies and laboratory

Prerequisite: A year of biology or one semester of botany

55.343 Marine Ichthyology

3 semester hours

A study of the internal and external structure of fishes, their systematic and ecological relationships, and their distribution in time and

Prerequisite: One year of general biology

55.344 Anatomy of Marine Chordates 3 semester hours

Familiarization with qualitative aspects of speciation. Establishment of understanding of basic and specialized structure and development of marine chordates. Tracing of important trends (and their functional significance) in the evolution of this structure in various vertebrate lines in which there was radiation to or from a marine environment. Laboratory work involves dissection of freshly collected (and preserved) representative marine vertebrates.

Prerequisite: Introductory biology or zoology

55.345 Ornithology

3 semester hours

Introduces avian fauna of the sea coast and enables comparison with inland species. Field work provides visual and vocal identification: lecture material includes information on distribution, behavior, physiology, and anatomy of birds.

Prerequisite: A year of biology or consent of the instructor

55.431 Ecology of Marine Plankton

3 semester hours

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

Prerequisite: A year of biology

Faculty Credentials

JOSEPH P. ARDIZZI

B.S., St. Joseph's College; Ph.D., Cornell University

GEORGE P. CHAMURIS

A.A.S., Dutchess Community College; B.S., State University of New York at Albany; M.S., James Madison University; Ph.D., State University of New York, College of Environmental Science and Forestry

JAMES E. COLE

B.A., M.A., Western Michigan University; Ph.D., Illinois State University

IUDITH P. DOWNING

B.S., Bowling Green State University; M.A., Ph.D., State University of New York at Buffalo

PHILLIP A. FARBER

B.S., King's College; M.S., Boston College; Ph.D., Catholic University of America

IOHN R. FLETCHER

B.S., M.Ed., Bloomsburg State College

GEORGE J. GELLOS

B.S., Muhlenberg College; M.S., Ohio University; Ph.D., The Pennsylvania State University

FREDERICK C. HILL

B.S., M.S., Illinois State University; Ph.D., University of Louisville

JUDITH KIPE-NOLT

B.A., Messiah College; M.S., Ph.D., The Pennsylvania State University

THOMAS S. KLINGER

A.A., Bradford College; B.A., Macalester College; M.A., Ph.D., University of South Florida

MARK S. MELNYCHUK

B.S., Moravian College; Ph.D., Kent State University

LYNNE C. MILLER

B.S., College of Pharmacy, University of Rhode Island; M.S., University of Texas; Ph.D., New Mexico State University

LOUIS V. MINGRONE

B.S., Slippery Rock State College; M.S., Ohio University; Ph.D., Washington State University

IAMES E. PARSONS

B.S., M.S., Ph.D., The Ohio State University

ROBERT G. SAGAR

B.S., M.S., The Ohio State University

CYNTHIA A. SURMACZ

B.S., The Pennsylvania State University; Ph.D., Milton S. Hershey Medical Center, The Pennsylvania State University

MARGARET L. TILL

B.S., M.S., Ph.D., Auburn University

Department of Finance and Business Law

College of Business

Chairperson

David G. Heskel

Professors

Barbara E. Behr Bruce L. Rockwood Associate Professors

David G. Heskel Karen J. Elwell David G. Martin W. Steven Smith

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in business administration-economics. Other majors in this degree program include accounting, finance, management information systems, management, and marketing.

Goals and Objectives

The major in business administration-economics provides a perspective of the domestic and international economic system on the Macro and Micro levels and the influence it exerts on the decision-making process of financial markets and institutions. This major provides students with educational opportunities that prepare them for careers in the domestic and international economic fields.

Required Courses

A total of 18 semester hours is required for a major in business administration-economics. Required courses include: Economics 40.311, 40.312, 40.313, and 40.422 or 40.423; economics elective and business elective.

Courses required for the degree program in business administration include: Economics 40.211, 40.212, 40.246, and 40.346, Mathematics 53.118; Accounting 91.220 and 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

Elective Courses

Students may select courses in business and economics to complete a minimum of 63 semester hour., Courses designated with a 91, 92, 93, 96, 97, or 98 prefix are business courses and those with a 40 prefix are economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student must have the proper prerequisites and avoid elected courses below that level for which the student has already been prepared in that subject field.

General Education Courses

English 20.101 and 20.201 are required as general education courses.

Free Electives

Select free elective courses as needed to satisfy the 128 semester hours required for graduation.

Faculty Credentials

BARBARA E. BEHR

A.B., Cornell University; M.A., Hunter College; J.D., Rutgers Law School

KAREN J. ELWELL

A.B., A.M., J.D., University of Illinois at Urbana-Champaign

DAVID G. HESKEL

M.B.A., Ph.D., University of Business, Vienna, Austria

DAVID G. MARTIN

B.A., C. W. Post College; M.B.A., Western Illinois University; Ph.D., University of Alabama

BRUCE L. ROCKWOOD

B.A., Swarthmore College; J.D., University of Chicago Law School

W. STEVEN SMITH

B.S., M.B.A., University of Georgia; M.A., The Ohio State University; Ph.D., University of Alabama

Department of Business Education and Office Administration College of Business

Chairperson

Roger W. Ellis

Professor

John J. Olivo Jr.

Associate Professors

Ellen M. Clemens Donna J. Cochrane

Nancy A. Dittman Roger W. Ellis

Assistant Professors

Dennis O. Gehris Janice C. Keil

Degree Program

Bachelor of Science in Education

A total of 74 semester hours is required for a major in business education.

Goals and Objectives

The business education curriculum provides specialized knowledge and skills to prepare graduates for certification for secondary teaching, positions as training managers for business and government, and advanced study in business education and related fields.

Admission to Teacher Education

Students who are admitted as business education majors must apply for acceptance into teacher education upon completion of 65 or more semester hours. For information about admission to teacher education contact one of the department faculty listed above.

Required Courses

General Business 90.101, 90.333, and 90.341; Accounting 91.221; Computer and Information Systems 92.150; Office Systems 94.221, 94.302, 94.401, and 94.403; Business Law 98.331.

Elective Courses

Students must choose at least 3 semester hours from General Business 90.234, Office Systems 94.330, and 94.405.

General Education Courses

The following general education courses are required: English 20.101 and 20.201; Speech Communication 25.103; Economics 40.211, 40.212, and 40.346 or Mathematics 53.118; 53.141; Psychology 48.101; and Special Education 70.101. Also 3 semester hours in Values, Ethics, and Responsible Decision Making, 3 semester hours in Fitness and Recreation Skills, 9 semester hours in Natural Sciences and Mathematics, and 12 semester hours in Humanities and the Arts.

Professional Education Courses

The student must have completed the following courses with a grade of C or better to be considered for certification as a teacher of business subjects:

Educational Foundations 60.201, 60.251, 60.291, 60.393

Secondary Education 65.374

General Business 90.402, 90.403, 90.404, 90.406

10 semester hours
3 semester hours

19 semester hours

Areas of Certification

Upon completion of the curriculum, receipt of a recommendation from the university, and successfully passing the National Teachers Examination, the graduate will be issued an Instructional Level I Certificate by the Pennsylvania Department of Education. Every certification indicates at least two subject areas of which Office Technologies is always one.

Students must complete each course in the certification area with a grade of Cor better.

Areas of certification in business education include:

Accounting — Accounting 91.222, 91.223, and 91.321

Data Processing — Computer and Information Systems 92.177, 92.251, and Office Systems 94.330

Marketing — Marketing 97.310 and two courses from Management 93.344, Marketing 97.430, and Business Law 98.332

Office Technologies — Office Systems 94.221, 94.302, 94.401, and 94.403 This certification area is required for all business education majors.

GENERAL BUSINESS (Code 90)

90.101 Introduction to Business

3 semester hours

Provides a study of business and its environment, organization, operation, and interrelationships with government and society. Business majors develop a broad base for further study in a specific area in business, while other majors become familiar with the American enterprise system and the functions and issues facing business today.

Prerequisite: Not open to business administration degree students with 6 or more semester hours in business.

90.234 Business Mathematics

Spring 3 semester hours

Covers concepts and principles of basic business operations and mathematics as it relates to accounting, retailing, and finance.

Prerequisite: Not open to business administration degree students with 6 or more semester hours in business.

90.333 Business Communications and Report Writing

3 semester hours

Applies theories and principles of effective communication to the solving of common business problems. Psychological and organizational strategies are used in the writing of business reports and other documents. Use of microcomputer software encouraged. Prerequisite: Iunior or Senior standing

90.341 Principles of Selling

3 semester hours

Includes a study of selling as a profession, preparation for successful selling, steps and procedures associated with the sales process, and special selling topics. Students apply sales principles and techniques while conducting sales presentations.

90.402 Methods of Teaching Business Education

3 semester hours

Emphasizes a variety of methods and materials for teaching certification areas of business education. Must be scheduled the semester prior to student teaching and concurrently with 90.403. Classroom discussions closely correlate with the experiences of 90.403. Prerequisite: Admission to teacher education

90.403 Business Education Field Experience

1 semester hour

Initiates an awareness of the teaching and learning atmosphere of the professional teacher in the classroom. Students provided opportunities to undertake the responsibilities assigned to a classroom teacher, including assuming some of the teaching role competencies. Must be scheduled the semester prior to student teaching.

Prerequisite: Admission to teacher education

90.404 Professional Semester in Business Education

12 semester hours

Includes orientation experiences to observe the operation of a school and specific classes as well as 16 weeks of participatory teaching experiences correlated with classroom studies under full-time supervision. Must be scheduled concurrently with 90.406 Clinical Studies in Business Education.

90.406 Clinical Studies in Business Education

3 semester hours

Presents seminars on principles of education for business teachers, methods of teaching business subjects, strategies, and problems of classroom teaching. Classroom discussions closely correlated with the experiences of 90.404.

90.410 Special Topics in Business Education and Office Systems

1-3 semester hours

A study of the aspects of business education or office systems. Not available as a regular course offering.

90.431 Independent Study in Business

1-3 semester hours

Topic and outline of project must be approved by the department chairperson and dean of the college.

Prerequisite: Open to seniors only

90.432 Internship in Business

1-6 semester hours

Provides students with opportunities to acquire practical experiences in work situations in office systems.

Prerequisites: Approval by department chairperson; QPA of 2.50 and 80 semester hours earned

90.460 Business and Office Workshop

1-3 semester hours

Students acquire an awareness and understanding of the knowledge pertaining to the professional development and improvement of business skills, the enhancement of business and office education as a professional responsibility, and their role in the business world.

Faculty Credentials

ELLEN M. CLEMENS

B.S., M.Ed., Bloomsburg State College; D.Ed., The Pennsylvania State University

DONNA J. COCHRANE

A.A.S., Dutchess Community College; B.S., M.S., State University of New York at Albany; Ed.D., Temple University

NANCY A. DITTMAN

B.S., Florida State University; M.Ed., University of Florida; Ed.D., University of Colorado

ROGER W. ELLIS

B.S., M.Ed., Bloomsburg State College; Ed.D., Arizona State University

DENNIS O. GEHRIS

B.S., M.A., Rider College; Ed.D., Temple University

IANICE C. KEIL

B.S., M.Ed., Bloomsburg State College; Ed.D., Temple University

JOHN J. OLIVO JR.

B.S., Davis and Elkins College; M.Ed., Trenton State University; Ph.D., Michigan State University

Department of Chemistry

College of Arts and Sciences

Chairperson

Lawrence L. Mack

Professors

Wayne P. Anderson Barrett W. Benson Lawrence L. Mack Roy D. Pointer

Associate Professor Emeric Schultz

Assistant Professors

Marlana B. Blackburn Harold N. Fonda Christopher P. Hallen Michael E. Pugh

Bruce E. Wilcox

Degree Programs

Bachelor of Science in Chemistry, Bachelor of Science in Clinical Chemistry
The Bachelor of Science program requires 57 semester hours for a major in chemistry.
The Bachelor of Science program requires 56 semester hours plus a clinical year (30 semester hours) for a major in clinical chemistry.

Goals and Objectives

The Bachelor of Science program in chemistry is designed to give students a strong background in chemistry with ample time available for taking courses in other disciplines. Often students in this program carry a double major, and many follow a pre-law or pre-med curricula. Students who intend to pursue advanced degrees in chemistry, biochemistry, or related disciplines or who anticipate a career in the chemical industry are encouraged to take the Bachelor of Science program that is approved by the Committee on Professional Training of the American Chemical Society. Advanced chemistry courses and an independent research project are required as part of this program.

The Bachelor of Science program in clinical chemistry is designed to prepare students for careers in a hospital setting or a pharmaceutical clinical laboratory.

The Bachelor of Science in Education program is designed for students who wish to enter the field of education and teach chemistry on the secondary school level. Degree requirements for the Bachelor of Science in Education are listed under on Secondary Education on page 176.

Required Courses for Bachelor of Science in Chemistry

Required courses include: Chemistry 52.115, 52.131, 52.216, 52.232, 52.233, 52.321, 52.352, 52.361, 52.362, 52.422; Mathematics 53.125, 53.126, 53.225; Physics 54.211, 54.212; Computer Science 56.110 or 56.121 or 56.210.

Students who want American Chemical Society certification upon graduation must complete the following additional requirements: Chemistry 52.481, 52.492, 52.493 plus a restricted elective selected from any 300 and 400 level course in chemistry (except Independent Study) or any approved 300 or 400 level course in mathematics or physics.

Required Courses for Bachelor of Science in Clinical Chemistry

Required courses include: Chemistry 52.115, 52.131, 52.216, 52.232, 52.233, 52.321, 52.341, 52.361; Biological and Allied Health Sciences 50.271, 50.343; Mathematics 53.125, 53.126, 53.225; Physics 54.211, 54.212, Computer Science 56.210; clinical year (30 semester hours) at Geisinger Medical Center in Danville, Pa.

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Sequence of courses required to receive Honors in Chemistry includes: the regular American Chemical Society-approved Bachelor of Science sequence of courses including: 52.481, 52.492, 52.493, 52.494, and 09.495. An overall minimum QPA of 3.25 is necessary to be eligible to receive honors in chemistry.

Minor in Chemistry

The minor in chemistry consists of 19 to 21 semester hours. Required courses are 52.115, 52.131, 52.216 plus one of the following combinations of restricted electives: 52.232, 52.233, 52.321 or 52.232, 52.361 or 52.321, 52.361.

Certification of Program

The Department of Chemistry is recognized by the Committee on Professional Training of the American Chemical Society (ACS) as one which meets its nationally recognized standards for undergraduate education in chemistry. This recognition is significant for students considering professional employment in the chemical industry and/or those seeking admission to postgraduate education programs in the sciences and medicine.

Students meeting the requirements for the ACS-approved Bachelor of Science in Chemistry, with the department's assistance, are certified by the American Chemical Society and become eligible for membership in the society without the usual two-year waiting period.

Cooperative Program in Engineering

Students interested in chemical engineering can earn a bachelor's degree in chemistry and a Bachelor of Science in chemical engineering through a cooperative program with The Pennsylvania State University. Three years of study at Bloomsburg and two years at Penn State are required for this program. (See details listed under *Engineering and Liberal Arts* on page 185.)

CHEMISTRY (Code 52)

52.100 Chemistry and the Citizen 3 semester hours

Discussion of chemical principles, the importance of chemistry, the use of chemicals and their impact on society and the environment. Three hours of class per week.

52.101 Introductory Chemistry

3 semester hours

Presents an introduction to chemistry for students with little or no background in chemistry. Surveys the principles of chemistry with emphasis on the fundamentals of chemical and physical measurements and calculations. Three hours of class per week. Not intended as a beginning course for science majors.

52.103 Introductory Chemistry Laboratory

2 semester hours

Introduces basic chemical principles and laboratory techniques and applies them to common materials. One hour of lecture and 3 hours of laboratory per week.

Prerequisite: 52.101 or concurrent

52.108 Physiological Chemistry

Spring 4 semester hours Surveys the essentials of organic and biochemistry. Includes bonding, structure, nomenclature, organic functional group reactions, and metabolism of biomolecules. Four hours class per week.

Prerequisite: 52.101 or 52.112 or 52.118

52.115 Fundamentals of Inorganic Chemistry

4 semester hours

Introduces descriptive inorganic chemistry and the chemical principles necessary to understand the descriptive material. First half of two-semester sequence for natural science or mathematics majors. Partially fulfills core requirement in inorganic chemistry for American Chemical Society. Three hours of lecture/3 hours of laboratory per week.

Prerequisite: High school chemistry or equivalent recommended

52.131 Fundamentals of Organic Chemistry

4 semester hours

Emphasizes structure, stereochemistry, functional group organization, physical properties and classical reactivity of organic compounds. Three hours of lecture and 3 hours of laboratory per week.

Prerequisite: 52.115

52.216 Chemical Principles and Measurements

4 semester hours

Second semester of introductory chemistry for natural science and mathematics majors. Surveys principles of chemical stoichiometry, intermolecular forces, kinetics, and thermodynamics as they apply to phase, electrochemical, and acid-base phenomena. Laboratory work illustrates chemical principles and emphasizes common chemical measurements. Three hours of lecture and 3 hours of laboratory per week.

Prerequisite: 52.115 plus high school Algebra II or equivalent

52.232 Intermediate Organic Chemistry 4 semester hours

A continuation of organic topics, building on 52.131. Introduces spectroscopy and the application toward structure determination. Emphasizes reaction mechanisms, stereochemistry, syntheses, and analyses of representative compounds. Three hours of lecture and 4 hours of laboratory per week.

Prerequisite: 52.131

52.233 Organic Spectroscopy

2 semester hours

Introduces spectroscopy to complement physical property characterization of organic compounds. Recommended for biology and allied health majors. Includes laboratory attainment of spectra and interpretation. Two hours of lecture-problem solving per week. Prerequisites: 52.131, 52.232 completed or concurrent

52.321 Analytical Chemistry I

3 semester hours

Introduces fundamental principles of chemical analysis utilizing classical wet chemistry and modern instrumental techniques. Stresses laboratory skills in the analysis of common commercial or environmental materials. Two hours of lecture and 4 hours of laboratory per week.

Prerequisite: 52.216

52.341 Biochemistry

4 semester hours

Emphasizes structure, reactivity, and metabolic reactions of the naturally occurring biomolecules. Discusses selected topics from the various metabolic pathways (both anabolic and catabolic). Introduces biochemical techniques encountered by the modern biochemist. Three hours of lecture and 4 hours of laboratory per week.

Prerequisites: 52.131, 52.216

52.352 Advanced Inorganic Chemistry Spring 4 semester hours

Theories and principles of inorganic chemistry; coordination chemistry, organometallic chemistry, systematic analysis of periodic relationships and properties of important elements. Three hours of lecture and 4 hours of laboratory per week.

Prerequisites: 52.115; 52.362 concurrent

52.361 Physical Chemistry I

Fall 4 semester hours

Studies thermodynamics; Gibbs free energy and equilibrium; kinetic theory of gases and solutions; chemical kinetics. Three hours of lecture and 4 hours of laboratory per week. Prerequisites: 52.115, 52.216; Mathematics 53.225; Physics 54.212

52.362 Physical Chemistry II

Spring 4 semester hours

Continuation of 52.361; Schrödinger quantum mechanics, solid state, molecular orbital theory; spectroscopy. Three hours of lecture and 4 hours of lecture and 52.261 to 100.000.

Prerequisite: 52.361

52.422 Analytical Chemistry II

4 semester hours

Presents the theory and laboratory applications of common methods of instrumental analysis. Topics include spectrophotometry, chromatography, mass spectrometry, nuclear magnetic resonance, and electrochemistry. A laboratory centered course. Three hours of lecture and 4 hours of laboratory per week. Prerequisites: 52.221, 52.362

52.481 Introduction to Scientific Literature

Fall 1 semester hour

Stresses the use of the library and scientific journals to facilitate the formulation of scientific research proposals and presentations. Experience gained in using the literature to design a senior research project and to make presentations to an audience of faculty and peers. One hour class per week.

Prerequisite: Advanced standing as a natural science major. Chemistry majors on ACS degree track should take 52.492 concurrently.

52.482 Advanced Topics in Chemistry 3 semester hours

Advanced course dealing with specialized topics of interest to students in ACS degree track. Subject matter varies. Course may be taken more than once provided subject matter is not repeated.

Prerequisite: Consent of the instructor

52.491 Independent Study I Special Topics in Chemistry

1-3 semester hours

Entails a directed laboratory or library oriented investigation of one or more topics of

mutual interest to student and instructor. (See *Independent Study* on page 10.)

52.492 Independent Study II Introduction to Research

1-3 semester hours

Requires a search of chemical literature and a written survey report of the search. A detailed plan of research (to be implemented in 52.493) is developed in a second written report.

(See Independent Study on page 10.)

Prerequisite: Approval of Chemistry Department

52.493 Independent Study III Chemical Research

3 semester hours

Investigations of selected chemical problems for advanced students. Approximately 120 hours per semester.

(See Independent Study on page 10.)

Prerequisites: 52.492, approval of Chemistry Department

52.494 Honors Independent Study IV Chemical Research

3 semester hours

The third semester of a laboratory investigation of selected problems under the supervision of a chemistry faculty member. Approximately 120 hours per semester.

(See Independent Study on page 10 and the Arts and Sciences Honors Program on page 9.) Prerequisite: Enrollment in the Honors Program

52.498 Internship in Chemistry

3-15 semester hours

A work-study program, this course is not applicable toward a major or minor in chemistry.

Prerequisite: Approval of Chemistry Department; junior or senior standing.

Adjunct Faculty in Clinical Chemistry

Geisinger Medical Center, Div. of Laboratory, Danville, Pa.

John P. Anhalt, Ph.D., M.D. Chairperson of Laboratory Medicine

Paul Bourbeau, Ph.D. Director of Microbiology

Jay Burton Jones, Ph.D.

Director of Chemistry/Toxicology

Mildred Louise Kaiser Fleetwood, Ph.D. Director of Immunology

Archimedes D. Garbes, M.D. Associate Pathologist

Stephen Meschter, M.D. Associate Pathologist

Alvin Swartzentruber, B.S. Educational Coordinator School of Medical Technology

Aloysious J. Schulski, B.A.
Supervisor of Clinical Chemistry Laboratory

Faculty Credentials

WAYNE P. ANDERSON

A.A.S., Jamestown Community College; B.A., Harpur College; M.S., Ph.D., University of Illinois

BARRETT W. BENSON

A.B., Middlebury College; Ph.D., University of Vermont

MARLANA B. BLACKBURN

B.S., Ph.D., University of Florida

HAROLD N. FONDA

B.S., University of Nottingham (England); Ph.D., Michigan State University

CHRISTOPHER P. HALLEN

B.A., Assumption College; Ph.D., University of New Hampshire

LAWRENCE L. MACK

A.B., Middlebury College; Ph.D., Northwestern University

ROY D. POINTER

B.S., University of Kansas; M.S., Ph.D., University of Michigan

MICHAEL E. PUGH

B.S., University of California, Davis; Ph.D., Arizona State University

EMERIC SCHULTZ

B.A., University of California; Ph.D., University of Illinois

BRUCE E. WILCOX

B.S., M.S., State University of New York at Oswego; Ph.D., University of Cincinnati

Department of Computer and Information Systems College of Business

Chairperson James S. Dutt

Professor Frank S. Davis Jr. Associate Professors

Carl J. Chimi James S. Dutt Harold K. Frey Gene M. Gordon Charles J. Hoppel

Assistant Professors Patricia M. Boyne

Degree Program

Bachelor of Science in Computer and Information Science

A total of 57 semester hours is required for a major in computer and information science.

Goals and Objectives

The Department of Computer and Information Systems in the College of Business offers two baccalaureate degree programs: Computer and Information Science (CIS) and Management Information Systems (MIS). While both programs involve learning how to develop information systems for the business environment, they differ significantly in emphasis. (For information on the Management Information Systems program, see the section on Management Information Systems on page 236.)

The CIS curriculum prepares students in the development and maintenance of computer-based information systems for the business environment. The program's focus centers on commercial software and hardware with an emphasis on problem solving, system analysis and design, data management, and data communications within a commercial context.

CIS has a technical emphasis. While students are required to take courses in economics, accounting, and other areas of business, the majority of the coursework is in computer and information science. Students work in a variety of environments including networked microcomputers and workstations, multiuser minicomputers, and mainframes. The program prepares business students for positions such as: application programmer, programmer-analyst, systems analyst, data base administrator, and information specialist.

Admission

Students enrolled in other colleges within Bloomsburg University who wish to transfer into the CIS curriculum must have completed a minimum of 15 semester hours at the university.

Required Courses

The following courses are required: two courses from Mathematics 53.118, 53.123, 53.125, 53.126 (the combination of 53.123 and 53.125 does not satisfy this requirement), and either 53.141 or 53.241; Economics 40.211 and 40.212; Accounting 91.221 and 91.222; Computer and Information Systems 92.177, 92.252, 92.256, 92.350, 92.351, 92.352, and 92.354.

Elective Courses

A total of 18 semester hours is required in restricted elective courses. These are drawn from computer and information system courses. An additional 12 semester hours must be selected from courses in accounting, business law, finance, management, and marketing.

Free Electives

Free elective courses account for the remaining 17 to 20 semester hours required for grad-

General Education Courses

CIS majors are required to take English 20.101 and 20.201 as general education selections.

Internship

Students are strongly encouraged to take an internship (92.432), although it is not a degree requirement. Counted as a free elective, the course can earn a maximum of 6 semester hours.

COMPUTER and INFORMATION SYSTEMS

(Code 92)

92.150 Introduction to Computer and Information Science

3 semester hours

Introduces computer-based systems and their use in problem solving and information processing. Includes a study of hardware and software concepts, data management, data communications, and system development. Involves hands-on experience with word processing, spreadsheet and file management software using networked microcomputers.

92.177 Structured Programming Methodology

3 semester hours

Introduces structured problem solving and programming, encompassing data representation, data structures, and control structures. Develops skills and knowledge needed to solve business problems with a computer; investigates software/tools used with CIS curriculum. Examines data representation. data structures, control structures, structured programming, algorithm development and computer concepts. Involves programming exercises using a high-level language on a UNIX platform.

Prerequisite: 92.150 or Computer Science 56.110 or equivalent

92.251 Mini/Micro Programming Systems 3 semester hours

Surveys minicomputer capabilities available

to the small business. Focuses on business applications and system design considerations for micro-based systems. Students work with a variety of software systems including: operating systems, a database management system, network software, and other emerging tools using networked microcomputers. Prerequisite: 92.150 or Computer Science 56.110 or equivalent

92.252 Business Oriented Programming 3 semester hours

Detailed study of structured problem solving in a business environment. Explores logical and physical structures, data representation. modular design, structured programming, and documentaiton. Presents processing techniques for one and two-level tables, data validation, control break logic and sequential file processing. Students develop increasingly complex programs using COBOL in a UNIX environment.

Prerequisite: 92.177 or Computer Science 56.12.1

92.254 Management Information Systems 3 semester hours

A study of how computer-based information systems provide information for effective decision making. Includes: structured analysis, design techniques, database concepts, person-machine interaction, data retrieval, and telecommunications. Focuses on the use of information technology in the modern busi-

Prerequisites: 92.150 or Computer Science 56.110 or equivalent

92.256 Data and Information Structures 3 semester hours

Studies standard data and file structures and algorithms for creation and manipulation of these structures. Explores rationale for use of structures under varying circumstances from both a practical and theoretical perspective. Involves computer exercises implementing selected algorithms in a suitable high-level language on a UNIX platform.

Prerequisite: 92.177 and 92.256/2

92.350 Analytic Computing Concepts 3 semester hours

Presents a detailed examination of the C programming language and programming techniques appropriate to the UNIX environment. Data representation, code generation, and programming considerations related to file maintenance with UNIX and C explored and developed through actual programming experiences.

Prerequisite: 92.256 or Computer Science 56.210

92.351 Systems Analysis and Design 3 semester hours

Provides an opportunity to bring together experiences in CIS courses, other business courses, and life to create usable business information systems. Helps develop skills required for successful business system development.

Prerequisites: 92.256

92.352 Advanced Programming

3 semester hours

Presents advanced concepts of programming in COBOL with major emphasis on indexed sequential files, interactive programming, subroutine linkage, random files, and SQL RDBMS programming concepts.

Prerequisites: 92.256

92.354 Data Base Processing Systems 3 semester hours

Details and examines data base terminology, organization, and models. Analysis, design, and administration of a relational compatible data base explored through applicable

programming experiences.

Prerequisite: 92.256 or Computer Science 56.355

92.356 Operating Systems

3 semester hours

Presents an overview of operating systems including real and virtual operating systems and communications software and techniques. Includes diagnostic facilities, utility routines, and system commands. Provides a detailed look at UNIX.

Prerequisite: 92.350

92.358 Data Communication Systems Spring 3 semester hours

Data communications terminology, technology, and the functional characteristics of communications hardware and software detailed and explored. Emphasizes systems and programming considerations as related to a commercial environment.

Prerequisite: 92.256 or Computer Science 56.355

92.432 Internship in Computer and Information Systems

1-6 semester hours

An educational arrangement between the student and an approved industrial, business, or government agency that provides a supervised work experience in a professional area of computer and information science. The experience relates to the academic principles and theories upon which the Computer and Information Systems curriculum is based. Prerequisites: Grade point average of 2.5 and 80 semester hours

92.450 Expert Systems and Artificial Intelligence

Fall 3 semester hours

A survey of basic concepts and techniques of expert systems and artificial intelligence applied to commercial programming systems. Examines knowledge acquisition, representation, storage, and inferencing methods used in expert systems. Stresses applications and

illustrations from the business environment. Prerequisite: 92.256 or Computer Science 56.355

92.452 Advanced Software Development Fall 3 semester hours

A formal approach to modern techniques of software design and development and provides for hands-on experience for students to apply the techniques. Students work in teams in the organization, management, and development of a large software project. Emphasizes the use of CASE tools.

Prerequisite: 92.351

92.456 Managerial Computer Applications

3 semester hours

Provides practical experience in analysis of business problems. Features advanced techniques and concepts of systems analysis and design along with software engineering with major emphasis on management information systems and decision support systems. Uses team approach to analyze, design, and document realistic systems. Uses project management methods, project scheduling and control techniques, formal presentations, and group dynamics.

Prerequisite: 92.351

Faculty Credentials

PATRICIA M. BOYNE

B.A., Ladycliff College; M.S., The Pennsylvania State University; CDP

CARL J. CHIMI

B.A., M.B.A., Ph.D., University of Massachusetts

FRANK S. DAVIS JR.

B.S., M.Ed., Shippensburg University; Ph.D., University of Pittsburgh

JAMES S. DUTT

B.S., M.S., Ph.D., The Pennsylvania State University

HAROLD K. FREY

B.S., Lock Haven University; M.A., Iowa State University; M.S., Elmira College

GENE M. GORDON

B.A., Southampton College; M.A., Antioch University; Ed.D., University of Massachusetts

CHARLES J. HOPPEL

B.S., University of Scranton; M.E.E., Ph.D., Syracuse University

Department of Mathematics and Computer Science

College of Arts and Sciences

Chairperson

Charles M. Brennan

Professors

Stephen D. Beck Charles M. Brennan Paul G. Hartung James C. Pomfret John H. Riley Jr. June L. Trudnak

Associate Professors

E. Dennis Huthnance Jr. Clinton J. Oxenrider Erik Wynters

Assistant Professors

Curt Jones Zahira S. Khan Anita Gleason Yixun Shi

Degree Program

Bachelor of Science in Computer and Information Science A total of 54 semester hours is required for a major in computer science.

Goals and Objectives

The Computer and Information Science program of the Department of Mathematics and Computer Science gives students a thorough grounding in the design, production, and analysis of software. Both the practical and theoretical issues involved in software and its development are emphasized. Students also obtain a basic understanding of hardware and its principles, particularly as it influences software. Mathematics is an essential tool in the curriculum. Students work in a variety of computing environments, ranging from singleuser personal computers to multiple-user minicomputers and mainframes. Graduates are prepared for either further study in computer science or employment in the software industry.

Required Courses

The following courses are required: Speech Communication 25.103; Mathematics 53.125, 53.126, 53.185, and 53.241; Computer Science 56.121, 56.122, 56.240, 56.330, 56.350, 56.355, 56.386; and Computer and Information Systems 92.350. Courses designated with a code number of 92 are offered through the College of Business. See *Computer and Information Science* on page 152 for these course descriptions.

Specialized Requirements

Select five courses totaling 15 semester hours from the following list: Mathematics 53.381 and 53.492; Computer Science 56.210, 56.215, 56.320, 56.356, 56.361, 56.373, 56.374, 56.410, 56.471, 56.472, and 56.491; Computer and Information Systems 92.352, 92.354, 92.356, and 92.358.

COMPUTER SCIENCE (Code 56)

56.110 Introduction to Computer Science

3 semester hours

Presents an introduction to computers and data processing — what they are, how they function, how they are controlled, and how

they are used in problem solving. Basic concepts include hardware, I/O systems, data communication and storage, flow charting, and programming in BASIC on a microcomputer. Hands on experience with word processing, spreadsheets, and data base software is required. Not appropriate for a student who has taken Computer and Information Systems 92.150.

56.121 Computer Science I

3 semester hours

An introduction to computer science with an emphasis on programming. Involves the use of a high-level language and the development of good programming style and fundamental techniques.

Prerequisite: 56.110 or the equivalent

56.122 Computer Science II

3 semester hours

The design and execution of applications software using the Pascal language; utilizes the principles of modularization, top-down design, and the fundamental algorithms of searching, sorting, stacks, queues, linked lists, trees, and recursion.

Prerequisite: 56.121

56.210 Algorithmic Processes for Computers

3 semester hours

Emphasizes concepts of FORTRAN 77; input and output, program documentation and control, structured programming, extended modes of arithmetic, character strings, and program development and execution.

Prerequisite: Programming experience or consent of the instructor

56.215 Programming in LISP Fall/odd-numbered years

3 semester hours

Introduces the LISP programming language with an emphasis on those features of LISP (e.g. functional style, emphasis on recursion, the list as the principle data structure, interactive programming environment) that distinguish it from other languages.

Prerequisite: 56.122 or consent of the instructor

56.240 Microcomputer Concepts

Fall 3 semester hours Advanced topics in programming with a microcomputer, introductory concepts of microcomputer architecture, operating systems, and machine and assembly language

for microprocessors.

Prerequisite: 56.122

56.305 Computer Applications in Secondary School Mathematics Spring/odd-numbered years

3 semester hours

Studies the theory, design, and usage of a computer as an instructional or training tool. Uses microcomputer to demonstrate and develop software applications.

Prerequisite: 56.121

56.320 Introduction to Logic Programming Spring/odd-numbered years

3 semester hours

Use of logic for programming, logic interpreters, recursive programming, nondeterministic and nonprocedural programming. Program verification and correctness and applications included.

Prerequisites: 56.122 or Computer and Information Systems 92.256 and Mathematics 53.185 or consent of the instructor.

56.330 Computer Organization

Spring 3 semester hours

Design of combinational and sequential circuits. Coding, various instruction formats and representation of data. Memory, central processors, input-output devices. Introduction to computer architecture. Characteristics and features of some existing computer systems.

Prerequisites: 56.122, Mathematics 53.185

56.350 Organization of Programming Languages

3 semester hours

An introduction to the issues of programming languages: syntax, semantics, parsing, language specification, and analysis. Emphasis on the run-time behavior of programming language constructs.

Prerequisite: 56.240

56.355 Analysis of Algorithms and Data Structures

Spring 3 semester hours A detailed analysis of algorithms and data structures. Examination of theoretical and experimental performance of algorithms and data structures. Particular attention to algorithms for searching and sorting and techniques for implementing and manipulating various data structures: tacks, queues, trees, graphs, and files.

Prerequisite: 56.122

56.356 Object Oriented Programming with Applications Fall/even-numbered years

3 semester hours

Introduces object oriented programming including the concepts of objects, windows environment, inheritance, encapsulation, polymorphism, and event driven programming. Participation in the development of a large scale application project is required. Prerequisite: 56.122 or Computer and Information Systems 92.256

56.361 Coding and Signal Processing Fall 3 semester hours

A mathematical approach to codes and ciphers. Includes security codes, error-correcting codes, coding for efficiency in computer storage. Signal processing, including the Fourier transform and digital filters. Individual projects required.

Prerequisites: 56.210 or 56.122, and Mathematics 53.126

56.373 Numerical Methods in Computing

Fall 3 semester hours An analysis and application of various methods of numerically solving problems in the areas of nonlinear equations; systems of equations, interpolation, and polynomial approximation; numerical integration; approximation theory; and differential equations. Students use a computer to design and execute algorithms for specific numerical procedures.

Prerequisites: 56.210, Mathematics 53.126

56.374 Introduction to Discrete Systems Simulation Spring/Even-numbered years

3 semester hours
Studies the ways in which systems can be

moduled for computer solution. Emphasizes stochastic behavior by discrete random processes and the simulation tools for their solution.

Prerequisites: A calculus course, a statistics course, and a programming course

56.386 Concurrent Programming and Foundations of Operating Systems 3 semester hours

Studies the foundation of modern operating systems and concurrent programming problems associated with these systems. Students write and test their solutions to problems. Covers problems and possible solutions encountered in the development of all modern systems.

Prerequisite: 56.122 or 92.256

56.410 Computer Graphics Spring/even-numbered years 3 semester hours

Presents the basic principles for design, use, and understanding of graphics systems. Hardware and software components of graphics systems examined with a major emphasis on creating and manipulating graphics displays using a software graphics package; the package includes standard computer graphics algorithms. Two and three dimensional graphics, animation, color, hidden line, and hidden surface algorithms studied in depth.

Prerequisites: 56.122, Mathematics 53.225 or consent of the instructor

56.471 Numerical Analysis

Alternate years 3 semester hours Provides a computer-oriented analysis of algorithms of numerical analysis. Topics include nonlinear equations, interpolation and approximation, differentiation and integration, matrices and differential equations.

Prerequisites: 56.373, Mathematics 53.322

56.472 Matrix Computation

Alternate years 3 semester hours
Presents a computer-oriented analysis of

Presents a computer-oriented analysis of matrices. Includes Gaussian reduction, LDU

factorization, special reduction techniques for tridiagonal matrices, iterative methods, and a study of the matrix eigenvalue problem

Prerequisites: 56.373, Mathematics 53.118 or 53.225, or consent of instructor

56.491 Special Topics in Mathematics 3 semester hours

Presents an area of computer science which is not available as a regular course offering. Prerequisite: Consent of the instructor

Faculty Credentials

STEPHEN D. BECK

B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer Polytechnic Institute

CHARLES M. BRENNAN

B.S.Ed., Bloomsburg State College; M.A., Montclair State College; Ph.D., The Pennsylvania State University

ANITA GLEASON

B.S., M.S., Ph.D., New Mexico Institute of Mining and Technology

PAUL G. HARTUNG

B.A., Montclair State College; M.A., University of Colorado; Ph.D., The Pennsylvania State University

E. DENNIS HUTHNANCE IR.

B.S., M.S., Ph.D., Georgia Institute of Technology

CURT A. JONES

B.S., Lock Haven; M.S., University of Iowa; Ph.D., The Pennsylvania State University

ZAHIRA S. KHAN

B.A., Punjab University; M.Sc., Islamabad University; B.S., Bloomsburg University; M.A., Temple University

CLINTON J. OXENRIDER

B.S., Bloomsburg State College; M.A., The Pennsylvania State University; D.A., Idaho State University

JAMES C. POMFRET

B.S., Bates College; M.S., New Mexico State University; Ph.D., University of Oklahoma

JOHN H. RILEY JR.

B.A., Lehigh University; M.S., Ph.D., The University of Connecticut

YIXUN SHI

B.S., Anhui Normal University at Chuzhou, China; M.S., Shanghai Teachers University, China; Ph.D., University of Iowa

IUNE L. TRUDNAK

B.S., Bloomsburg State College; M.S., Bucknell University; Ph.D., The Pennsylvania State University

ERIK WYNTERS

B.S., University of New Hampshire; M.S., Ph.D., Cornell University

Department of Developmental Instruction

Chairperson Jesse A. Bryan

Associate Professor Jesse A. Bryan

Assistant Professors Harold C. Ackerman Virgie Bryan Wayne George Carol J. Venuto John Wardigo Irvin Wright

Instructors

James F. Mullen Janice Walters

Goals and Objectives

The Department of Developmental Instruction provides developmental, study skills courses and other supportive services that are intended to assist students in making the transition from high school to college. These courses and services help students to improve basic skills (reading, writing, mathematics). All students, regardless of their current academic program or prior academic performance, may enroll in any courses offered by the department.

The goal of developmental instruction is to assist in the successful performance of all students and their smooth integration into the higher education process. The philosophy of Developmental Instruction is based on the principles of prevention of problems and dedication to meeting individual needs. This department offers a full range of academic, advisory, and counseling services to students. Services also are open to non-program students who wish to take advantage of developmental reading, writing, or mathematics courses /labs conducted by faculty members and student tutors.

Developmental reading assists students in increasing their vocabulary and comprehension skills. Grades earned in the two developmental reading courses are factored into a student's cumulative average, but do not accrue any semester hours toward graduation. Students not enrolled through Act 101 or EOP may be recommended for a course based on the results of a diagnostic exam. The Department of Developmental Instruction offers a 3 semester hour college level reading and study skills course and at times a 1 semester hour study skills course, both of which count towards graduation. The Reading Lab, located in Room 310 of Bakeless Center, offers individualized instruction in understanding textbooks and learning strategies for most courses on campus. Group instruction also is provided for selected courses based on student enrollment in the program. Workshops on test-taking strategies and mini-courses on speed reading are scheduled periodically.

A developmental writing course is available to any university student as a primer to entering the required English courses. Students not enrolled through Act 101 or EOP may be recommended for this course based on results of a diagnostic exam. These courses carry a grade, but credits do not count toward graduation. Students who do not need a full semester of instruction may establish an individualized instruction program through the University Writing Center, located in Room 206, Bakeless Center for the Humanities, or they may attend any one of the two-week mini-courses on special topics offered through the year. Assistance also is available to promote greater understanding of the writing process.

The purpose of developmental mathematics is to improve mathematical skills necessary for the successful completion of college-level courses. Students not enrolled through Act 101 or EOP may be recommended based on results of a diagnostic exam. The mathematics lab, located in Room 309 of Bakeless, also offers workshops on topics such as Building Self-Confidence in Mathematics and tutorial assistance for math classes offered at the university, especially College Algebra and Math Thinking. Students may use a variety of instructional

materials including individualized learning programs, supplementary texts, audio tapes, microcomputers, and computer software (for computational skills, geometry, and algebra). The Department of Developmental Instruction is in Room 14, Waller Administration Building (389-4492) and is open from 8 a.m. to 4:30 p.m., Monday through Friday.

DEVELOPMENTAL INSTRUCTION (Code 01)

01.011 Reading I

Summer 3 semester hours
Designed to improve a student's reading ability to a level where he/she can compete at the next level. Instruction given in a laboratory and lecture format. Weekly contacts provide individualized prescriptions. Two semester hours toward full-load status; grade counted in OPA. Does not apply toward graduation.

01.025 Reading II

3 semester hours

Course presents major components of the reading process and emphasizes basic reading skills. Three semester hours towards full-load status; grade counted in QPA. Does not apply toward graduation. A prerequisite for College Reading and Study Skills for students scoring below the established cutoffs on the Nelson Denny Reading Test.

01.041 Writing I

Summer 3 semester hours

Course designed to improve spoken and written language and to enhance development of skills necessary for formal writing, particularly punctuation, sentence structure, and paragraph writing. Includes studies and measurements of the effectiveness of advertising copy, informal writing, and traditional learning. Product and process discussed and compared to various approaches to learning. Two semester hours toward full-load status; grade counted in the QPA. Does not apply toward graduation.

01.060 Writing II

3 semester hours

Open to students who test below standard established by the university. Using writing and revising tasks, students learn to control

basic sentence patterns, improve grammar, mechanics, and spelling, and try basic rhetorical strategies in paragraphs. Three semesterhours toward full-load status; grade counted in QPA. Does not apply toward graduation.

01.071 Pre Algebra

Summer 3 semester hours

Geared for students with inadequate arithmetic skills. Study skill techniques and problem-solving strategies explored. Emphasizes basic computer literacy including the LOGO language, and uses computer-assisted instruction. Two semester hours toward full-load status; grade counted in QPA. Does not apply toward graduation.

01.080 Introductory Algebra

3 semester hours

Recommended for students with minimal algebraic skills as evidenced by student preparation and results obtained in diagnostic tests. A program designed for each student may include operations of rational numbers, ratio, proportion, percent, geometric concepts, basic algebraic concepts and skills. Concepts may include beginning linear equations. Two semester hours toward full-load status; grade counted in QPA. Does not apply toward graduation.

01.090 Intermediate Algebra

3 semester hours

Emphasizes intermediate algebraic skills necessary if success is to be obtained in College Algebra. Topics include linear equations and functions, exponents and polynomials, factoring, rational expressions, and quadratic equations. Provides concepts and skills necessary for college-level math courses that build on a limited algebraic background. Three semester hours toward full-load status; grade counted in QPA. Does not apply toward graduation.

01.095 Introductory Science

Summer 3 semester hours

Acquaints the student with scientific terminology and methodology; familiarizes the student with the study skills unique to the mastery of science; prepares the student for subsequent courses in science; and makes the student more comfortable with the nature and characteristics of science. Three semester hours toward full-load status; grade counted in QPA. Does not apply toward graduation.

01.100 College Study Skills

1 semester hour

Designed to provide, formulate, and apply the methods and models of learning strategies. Principle focus on content area reading and study skills. Outside readings and discussion focus on the nature of learning and the individual's responsibility to learning. Product and process discussed and compared to various approaches to learning. Applies toward graduation. Usually restricted to the summer freshmen program or offered upon special request.

01.120 College Reading and Study Skills 3 semester hours

Develops the complex reading and study skills essential for college learning. Focuses on content area reading and study strategies, reading flexibility, and critical reading skills. Outside readings focus on the nature of learning and the individual's responsibility to learning. Students may be required to use the reading lab for computerized vocabulary lessons and speed reading exercises. Student may not take both College Study Skills and College Reading and Study Skills. Applies toward graduation.

Faculty Credentials

HAROLD C. ACKERMAN

B.S. Ed., Bloomsburg State College; M.A., University of Kansas

JESSE A. BRYAN

A.B., Johnson C. Smith University; M.Ed., Temple University; Ph.D., Toledo University

VIRGIE BRYAN

B.S., Fayetteville State College; M.Ed., Bloomsburg State College

WAYNE GEORGE

B.S., Bloomsburg State College; M.S., The Ohio State University; M.S., Lehigh University

JAMES F. MULLEN

B.S., The Pennsylvania State University; M.Ed., Bloomsburg State College

CAROL J. VENUTO

B.A., Houghton College; M.S., Syracuse University

JANICE WALTERS

B.A, M.A., Bloomsburg State College

IOHN WARDIGO

B.S., Bloomsburg State College; M.Ed., Kutztown University

IRVIN WRIGHT

A.A., Dodge City Junior College; B.Ed., State University of New York at Buffalo; M.Ed., University of Toledo

Department of Geography and Earth Science

College of Arts and Sciences

Chairperson

James R. Lauffer

Professors

Duane D. Braun James R. Lauffer Associate Professors

Norman M. Gillmeister Joseph R. Pifer

Dale A. Springer

Assistant Professor Lawrence Tanner

Degree Programs

Bachelor of Science in Earth Science, Bachelor of Science in Geology A total of 56 semester hours is required for a major in earth science.

A total of 64 semester hours is required for a major in geology.

Goals and Objectives

The primary goal of the faculty of the geology-earth science program is to provide students with a solid foundation in geology and/or the earth sciences. This is accomplished by balancing classroom studies, laboratory exercises, and field experience with ancillary courses in chemistry, physics, and mathematics. The departmental program also supports the university's aim of providing a strong liberal arts background for our students. This integration of science and liberal arts successfully prepares graduates for entry-level employment in the earth science profession or for acceptance into highly competitive graduate programs in the geological sciences.

Bachelor of Science in Earth Science

The degree program in earth science requires the following courses: Earth Science 51.101, 51.102, 51.111, 51.112, 51.255, and 51.259, plus four courses elected from 51.261, 51.262, 51.320, 51.355, 51.360, 51.365, 51.369, 51.370, 51.451, 51.453, 51.461, 51.462, 51.468, 51.470, and 51.475, and approved courses offered by the Marine Science Consortium; Computer Science 56.110 or Computer and Information Systems 92.150 or a higher level course in programming, plus two courses selected from Mathematics 53.113, 53.123, 53.124, 53.125, 53.126, and 53.141; Chemistry 52.115, 52.216 or 52.131; Physics 54.110, 54.111, and 54.112.

A maximum of 9 semester hours from the Marine Science Consortium may be applied toward this bachelor's degree. A listing of acceptable marine science course numbers follows the Code 51 course descriptions. For descriptions of these marine science courses, see the section of the catalog on *Biology* on page 130.

Bachelor of Science in Geology

The degree program in geology requires the following courses: Earth Science 51.101, 51.102, 51.111, 51.112, 51.261, 51.262, 51.360, 51.365, 51.369, 51.468, 51.493, and 51.451 or equivalent 4 to 6 semester hours field course; Computer Science 56.110 or Computer and Information Systems 92.150 or a higher level course in programming; Mathematics 53.123 and 53.124 or 53.125 and 53.126, 53.141; Chemistry 52.115 and 52.216 or 52.131; Physics 54.111 and 54.112 or 54.211 and 54.212.

EARTH SCIENCE and GEOLOGY (Code 51)

51.100 Field Applications of Earth Science 3 semester hours

Open to QUEST summer program students only. Not applicable toward a degree in earth science.

51.101 Physical Geology

3 semester hours

Studies the landscape in relation to the structure of the earth's crust; agents at work to change landforms; classification and interpretation of rocks. One semester hour optional lab; an afternoon field trip is required.

51.102 Historical Geology

3 semester hours

Examines the evolution of earth and life on earth as interpreted from rock and fossil evidence; particular emphasis is on the geologic history of North America. One semester hour optional lab; afternoon field trip is required.

51.105 Environmental Geology 3 semester hours

Application of geologic knowledge to environmental concerns. Emphasizes energy, soil, mineral, and water resources along with Earth processes that are hazardous to humans. An afternoon field trip with a nominal fee is required.

51.111 Physical Geology Laboratory 1 semester hour

Presents an introduction to the practice of fundamental geology laboratory techniques including qualitative and quantitative analysis. Two hours of laboratory per week. It is recommended that course be taken concurrently with 51.101

51.112 Historical Geology Laboratory 1 semester hour

Provides an interpretation of Earth's history through the identification and evolution of the rock and fossil record and through the interpretation of geologic maps. Two labora-

tory hours per week. It is recommended that course be taken concurrently with 51.102.

51.255 Meteorology

3 semester hours

Studies the atmosphere via the use of gas laws and the underlying principles of atmospheric change. The field trip component incurs an additional cost to students of approximately \$20 for air fare.

51.259 Oceanography

3 semester hours

Provides an introduction to the geologic, chemical, and physical aspects of the ocean basins. Emphasizes wave motion, topographic features, ocean basin structure, current circulation, and methods of investigation. A weekend field trip is encouraged.

51.261 Mineralogy

Fall 4 semester hours

Reviews the origin, occurrence, and identifying characteristics of common minerals. Stresses megascopic and microscopic techniques. Three hours of class, 2 hours of laboratory per week.

51.262 Petrology

Spring 4 semester hours

Presents megascopic and petrographic analysis and identification of rocks with emphasis on field occurrences and associations. Three hours of class, 2 hours of laboratory per week. Prerequisite: 51.261

51.320 Remote Sensing of the Earth

3 semester hours

Stresses the use of remote sensing technology to explore for, monitor, and manage Earth's natural resources. Two hours of class, 2 hours of laboratory per week.

51.355 Synoptic Meteorology

3 semester hours

Presents observation and analysis of data for understanding and predicting the complexities of the atmosphere.

Prerequisite: 51.255 or consent of instructor

51.360 Introduction to Paleontology

4 semester hours

Introduces students to modern concepts and methods in paleobiology using examples from various groups of organisms important in the fossil record. Field trips and laboratory work are an integral part of this course.

Prerequisite: 51.102 or Biology 50.211 or consent of the instructor

51.365 Geomorphology

Fall 4 semester hours Study of the origin of landforms with emphasis on the geologic processes and structures that generate the landforms and applications of landform analysis. Two-day weekend field trip is required. Three hours of class, 2 hours of laboratory per week.

Prerequisite: 51.101 or consent of instructor

51.369 Structural Geology

Spring 4 semester hours Analyzes rock deformation based upon the principles of rock mechanics and the utilization of data from field investigations. Three hours of class, 2 hours of laboratory per week.

51.370 Hydrology

Fall 3 semester hours

Study of water movement upon and within the Earth with emphasis on calculations used in flood forecasting, surface water supply, and groundwater supply. Two hours of class, 2 hours of laboratory per week.

51.451 Field Techniques in Earth Science Summer 6 semester hours

Provides intensive field and laboratory training in the use of equipment and techniques in geology, hydrology, and cartography. Field trips are integral, vital parts of the course. Prerequisite: 15 semester hours in earth science courses or consent of the instructor

51.453 Programming and Operation of the Planetarium

3 semester hours

Provides an intensive study in the methods of effective educational use of the planetarium as a teaching and motivational device as well

as supervised training and practice in the operation, use, and maintenance of planetarium equipment.

51.461 Mineral Resources

3 semester hours

Studies both metallic and nonmetallic mineral deposits. Emphasizes the origin of deposits, exploration, and exploitation methods used, and environmental problems encountered.

Prerequisite: 51.261 or consent of the instructor

51.462 Fundamentals of Petroleum Geology

3 semester hours

Presents an introduction to petroleum, its properties, origin, accumulation, exploration, and exploitation.

51.468 Stratigraphy and Sedimentation Fall 4 semester hours

Studies processes and agents which erode, transport, and deposit sediments and the geologic interpretation of the resulting rocks. Three hours of class, 2 hours of laboratory per week.

51.470 Groundwater Hydrology

Spring 3 semester hours

Covers well hydraulics exploration techniques, groundwater flow theory, development of groundwater supplies, and prevention or correction of groundwater pollution. A one-or two-day field trip required. Two hours of class, 2 hours of laboratory per week.

51.475 Independent Study in Earth Science

1-3 semester hours

Provides an opportunity for student research in various areas of earth science. Research is conducted under the supervision of a faculty member. See subsection of the catalog on *Independent Study* on page 10.

Prerequisite: 21 semester hours in earth science

51.493 Bibliography and Research

3 semester hours

Provides for library and/or field research in geology.

Prerequisites: 51.261, 51.262, 51.468 or consent of the instructor

51.496 Internship in Earth Science

3-15 semester hours

Provides for a work-study program available only to juniors and seniors majoring in earth science. Not applicable toward a major or a minor in earth science.

Marine Science Consortium

Courses in marine science are offered during the summer by the Marine Science Consortium. The consortium is a joint program sponsored by several Pennsylvania state universities. The following are acceptable as elective courses for majors in earth science and biology. For course descriptions and semester hours, see the section of the catalog on *Biology* on page 130.

MARINE SCIENCE (Code 55)

55.110	Introduction to Oceanography	55.420	Marine Micropaleontology
55.211	Field Methods	55.431	Ecology of Marine Plankton
55.212	Navigation	55.458	Exploration Methods in Marine
55.221	Marine Invertebrates		Geology
55.241	Marine Biology	55.459	Coastal Geomorphology
55.250	Management of Wetland Wildlife	55.498/	55.598 Topics in Marine Science
55.260	Marines Ecology	55.500	Problems in Marine Science
55.270	Scuba Diving	55.510	Oceanography I
55.280	Field Biology		(In-Service Teachers)
55.331	Chemical Oceanography	55.511	Oceanography II
55.342	Marine Botany		(In-Service Teachers)
55.343	Ichthyology	55.520	Marine Microbiology
55.344	Anatomy of Marine Chordates	55.530	Coastal Sedimentation
55.345	Ornithology	55.540	Environmental Science Education
55.364	Marine Geology	55.570	Research Cruise-Biology,
55.398	Developmental Biology of Marine		Geology, Pollution
	<u> </u>		

Faculty Credentials

Organisms

DUANE D. BRAUN

 $B.S.,\ New\ York\ at\ Fredonia;\ M.A.,\ Ph.D.,\ The\ Johns\ Hopkins\ University$

NORMAN M. GILLMEISTER

B.A., Harvard College; M.A., Indiana University; M.A., Ph.D., Harvard University

JAMES R. LAUFFER

B.S., Allegheny College; M.S., University of Hawaii; Ph.D., University of Delaware

JOSEPH R. PIFER

B.S., Clarion State College; M.A., Arizona State University

DALE A. SPRINGER

A.B., Lafayette College; M.S., University of Rochester; Ph.D., Virginia Polytechnic Institute and State University

LAWRENCE H. TANNER

B.A., Williams College; M.S., University of Tulsa; Ph.D., University of Massachusetts

Department of Economics

College of Arts and Sciences

Chairperson

Woo Bong Lee

Associate Professors

Mehdi Haririan

Professors Ujagar S. Bawa Robert P. Ross

Assistant Professors

Peter H. Bohling

Saleem M. Khan

Sukhwinder Bagi Robert S. Obutelewicz

Woo Bong Lee TejBhan S. Saini

Elizabeth P. Patch

Rajesh K. Mohindru

Degree Programs

Bachelor of Arts in Economics, Bachelor of Science in Business Economics, Bachelor of Arts in Political Economics

A total of 45 semester hours is required for a major in economics.

A total of 48 semester hours is required for a major in business economics.

A total of 45 semester hours is required for a major in political economics.

Goals and Objectives

The Department of Economics at Bloomsburg University offers a systematic study of the economic activities of government, business, and consumers. The core of the curriculum enables the student to master basic principles of economics, to develop analytical skills, and to interpret economic phenomena.

To accommodate the diversity of interests at the undergraduate level, the department has three tracks open to economic majors, two lead to a Bachelor of Arts and one to a Bachelor of Science. The three tracks are: a general study of economics in preparation for graduate school or a career in the public or private sector; business economics, the student is interested in analytical economics and intends to pursue graduate work or career in business or government; and political economics, if the prospect of a career dealing with political and inter-national problems in the public arena is appealing or the student intends to pursue advanced study in the field.

Required Courses

The following five courses are required: Economics 40.211, 40.212, 40.311, 40.312, 40.346; plus a track in either economics, business economics, or political economics.

Elective Courses

Electives in economics, business, and political science in any of the options require the adviser's approval.

General Economics

Select one course from Economics 40.246 or Mathematics 53.125; and 27 semester hours in elective courses in economics, including Economics 40.400 or 40.446.

Business Economics

This track includes the following courses: Business 91.221 and 91.222 or 91.220 and 91.223,

Business 93.345, 96.313, 97.310; Computer Science 56.110 or equivalent; 15 semester hours in elective courses in economics, including Economics 40.446.

Political Economics

Courses in the political economics track include: Political Science 44.120, 44.336; Economics 40.315, 40.422, 40.460, 6 semester hours of elective courses in economics; 9 semester hours of elective courses in political science. The following pairs of courses in economics and political science are recommended as pertinent to the purpose of the option in political economics: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.280; 40.316 with 44.452; 40.410 with 44.336; 40.315 with 44.331. Study of a foreign language is recommended.

Minor in Economics

The minor provides a basic competence in economics for non-economics majors and constitutes 18 semester hours. Courses required for a minor in economics include: Economics 40.211, 40.212, 40.311, and 40.312; 6 semester hours of elective courses in economics chosen from General Economics Theory (Economics 40.313, 40.315, 40.316, 40.410, 40.413, 40.415 and 40.433), Statistical Analysis (Economics 40.346, 40.400, and 40.446), and Economic History and Systems (Economics 40.422, 40.423, 40.424, 40.434, and 40.460).

ECONOMICS (Code 40)

40.211 Principles of Economics I 3 semester hours

Studies macroeconomics: nature of the economic problem; economic concepts; institutional framework; supply, demand, and the price system; national income accounting; determination of output and employment levels; consumption, saving, and investment behavior; inflation and unemployment; business cycles; monetary and fiscal institutions and theory; economic growth.

40.212 Principles of Economics II 3 semester hours

Studies microeconomics: supply, demand, the price system; cost and productions analysis, theory of consumer behavior and the firm; output and price determination, resource allocation, and determination of factor incomes under perfect and imperfect markets; current economic problems, and international economics.

Prerequisite: 40.211

40.246 Business and Economic Mathematics

3 semester hours
Presents an introduction to basic mathemati-

cal tools most frequently employed in economics and business, e.g., systems of linear equations, inequalities, elements of linear programming, matrix algebra, logarithms, mathematics of finance, and differential and integral calculus.

40.311 Intermediate Micro-Theory and Managerial Economics

3 semester hours

Reviews the theory of consumer behavior and the firm; output and price determination under different market systems; pure competition, pure monopoly, oligopoly and monopolistic competition; production and cost analysis; allocation of resource and distribution of income; comparison of behaviors of competitive, monopolistic, and oligopolistic product and resource markets; constrained and nonconstrained optimization techniques and their applications to business decisions and business practices; welfare economics.

Prerequisites: 40.211, 40.212, 40.246

40.312 Intermediate Macroeconomic Theory

3 semester hours

Stresses the national income analysis; theory of income determination, employment, and price levels; monetary and fiscal institutions;

theory and policy; investment, interest, and demand for money; business cycles; inflation and unemployment; national debt; macroeconomic equilibrium; prices, wages, and aggregate supply, economic growth, foreign trade and balance of payments; economic policy.

Prerequisites: 40.211, 40.212, 40.246

40.313 Labor Economics

3 semester hours

Presents the economics of the labor market; supply of and demand for labor; nature and theory of wages; productivity and inflation; unionism; historical development; theories of labor movements; trade union governance; collective bargaining; government interventions and public policy.

Prerequisite: 40.212

40.315 Business and Government

3 semester hours

Surveys government policies for maintaining competition, for substitution regulation in place of competition and for substituting public for private enterprise; tests of various government policies in light of economic theory and historical experience.

Prerequisite: 40.212

40.316 Urban Economics

3 semester hours

Applies economic theory and recent empirical findings to urban resource use. Analyzes problems of unemployment, housing, education, transportation, pollution, and equal opportunity.

Prerequisite: 40.212

40.317 Population and Resource Problems

3 semester hours

Reviews classical theories of population growth; recent economic models of population correlating natural resources; capital accumulation and technological change; and population problems in North America, European, and developing countries. Analyzes recent trends in birth and death rates as factors in population growth. Studies mea-

sures of population and labor force, their distribution by age, sex, occupation, regions; techniques for projecting population levels. Course is not offered on a regular basis.

Prerequisite: 40.212

40.346 Business and Economics Statistics I

3 semester hours

Organizing and presenting data, descriptive statistics, elements of probability and probability distributions, sampling and sampling distributions, estimation and hypothesis testing, analysis of variance and Chi-square, introduction to regression and correlation as applied to business and economic problems. Prerequisite: 40.212

40.400 Introduction to Econometrics

3 semester hours

Applies modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macroeconomics models; income distribution and growth model.

Prerequisites: 40.212, 40.346

40.410 Public Finance

3 semester hours

Analyzes revenues and expenditures of local, state, and national government in light of micro and macrotheory; criteria and models of government services; subsidies, etc., the principles of taxation, public borrowing, and public debt management; impact of fiscal and budgetary policy on resource and income allocation, internal price and employment stability; the rate of growth and world economy.

Prerequisite: 40.212

40.413 Money and Banking

3 semester hours

Reviews the historical background and the development of monetary practices and principles of banking; special attention given to commercial banking and credit regulations and current monetary and banking development.

Prerequisite: 40.212

40.415 Environmental Economics 3 semester hours

A study of the economics of environmental quality. Examines environmental facts and social circumstances with particular emphasis on market and non-market solutions to the environmental problems. Topics include the private market and its efficiency, externalities, environmental quality as a public good, income distribution effects of government environmental quality as a public good, income distribution effects of government environmental programs; water resources and water quality, problem of air quality, and quality of life and other environmental problems; prohibitions on and regulation of polluting activities, taxes, subsidies, and effluent charges; population, economic growth, and environmental quality.

Prerequisite: 40.212

40.422 Contrasting Economics

3 semester hours

Outlines theories of capitalism and socialism with a special emphasis on Marxian theory. Compares theoretical and actual performance of capitalism, socialism, and communism.

Prerequisite: 40.212

40.423 History of Economic Thought

3 semester hours

Surveys economic theories propounded in the past and their effect on present-day thinking about economic, business, and political systems. The surplus value theory; economic planning as part of government responsibility; relation of family budgets to Engel's Law; government responsibility for employment and rent control.

Prerequisite: 40.212

40.424 Economic History of the Western World

3 semester hours

Presents a comparative analysis of the economic theory of the United States and Europe with particular attention to the interplay of changes in business, financial, and labor institutions, products and production,

adaptations to resource differences, and conflicting economic doctrines.

Prerequisite: 40.212

40.433 International Economics

3 semester hours

Addresses the pure theory of international trade. Outlines the gains from trade; free trade and protection; balance of payments; foreign exchange and capital movements; the dollar and the international monetary system and international liquidity shortage. Prerequisite: 40.212

40.434 Economic Growth of Underdeveloped Areas

3 semester hours

Presents studies of stagnating economies; theories of underdevelopment; operative resistances to economic growth; the role of capital, labor, population growth, and technological advance; development planning and trade in development settings.

Prerequisite: 40.212

40.446 Business and Economic Statistics II

3 semester hours

Probability distributions; regression and correlation analysis; analysis of variance and designs of experiments; time series analysis and index numbers, non-parametric methods; modern decision theory and Bayesian statistics; computer application.

Prerequisites: 40.212, 40.346

40.460 Advanced Political Economy

3 semester hours

Applies economic and political models of social decision making to historical problems from local through international levels. Presents an evaluation of market; political and mixed techniques in particular areas from the 18th through the 20th centuries. Course not offered on a regular basis.

Prerequisite: 40.212

40,470 Senior Seminar

3 semester hours

Discusses the current literature on economic

theory and economic policy. Students read one journal article a week on which they write a report and make a seminar presentation.

Prerequisite: Senior standing or consent of the instructor

40.490 Independent Study in Economics 1-3 semester hours

Provides students with an opportunity to receive individualized instruction as they pur-

sue indepth inquiries into previously specified subject matter of special interest within the field of economics. Topic and outline must be developed with a faculty sponsor and approved by the department during the preceding semester of residence. See section on *Independent Study* on page 10.

Faculty Credentials

SUKHWINDER BAGI

B.A., M.Ed., M.A., Punjab University; Ph.D., Vanderbilt University

UJAGAR S. BAWA

B.A., M.A., Punjab University; A.M., University of Pennsylvania; Ph.D., Cornell University

PETER H. BOHLING

B.A., Miami University; M.A., The University of Iowa; Ph.D., University of Massachusetts

MEHDI HARIRIAN

B.A., National University; M.A., Iowa State University; Ph.D., New School for Social Research

SALEEM M. KHAN

B.A., S.E., College, Bahawalpur; M.A., Government College, Lahore, Punjab University; Ph.D., J. Gutenberg University

WOO BONG LEE

B.S., Delaware Valley College; M.S., Ph.D., Rutgers University

RAJESH K. MOHINDRU

B.A., M.A., DAV College; M.A., Ph.D., University of Pennsylvania

ROBERT S. OBUTELEWICZ

B.A., B.S., Carson-Newman College; M.A., Ph.D., University of Massachusetts

ELIZABETH P. PATCH

B.S., M.S., Ph.D., Lehigh University

ROBERT P. ROSS

B.A., M.A., Washington University

TEJBHAN S. SAINI

B.A., M.A., University of Punjab; D.F., Duke University; Ph.D., New School of Social Research

Department of Curriculum and Foundations

School of Education, College of Professional Studies

Chairperson

William S. O'Bruba

Professors

Raymond E. Babineau Nancy G. Gilgannon John R. Hranitz Gorman L. Miller William S. O'Bruba Edward J. Poostay David E. Washburn

Associate Professors

Bonita B. Franks Chris A. Cherrington Henry D. Dobson Donald L. Pratt, assistance chairperson Lorraine A. Shanoski

Assistant Professors

Flaine Anderson C. Meade Beers Neil L. Brown Robert L. Clarke Gary J. Doby Mary G. Harris M. Hussein Fereshteh Iane McPherson Frank Misiti Gilda M. Oran Egerton Osunde Rosemary Radzievich Mary Alice Wheeler Bonnie L. Williams Patricia Wolf

Degree Programs

Bachelor of Science in Education-Early Childhood Education, Bachelor of Science in Education-Elementary Education, Bachelor of Science in Education-Secondary Education A major in early childhood education (N-K-3) requires a minimum of 128 semester hours. A major in elementary education (K-6) requires a minimum of 128 semester hours. A major in secondary education (7-12) may require from 128 to 134 semester hours.

Goals and Objectives

Four curricula in education are offered through the School of Education's Department of Curriculum and Foundations in the College of Professional Studies: one leading to certification for kindergarten through grade 6 (K-6); one in early childhood education which leads to certification for nursery, daycare, preschool, kindergarten, and grades 1-3 (N-K-3); a dual certification program that combines the K-6 and the N-K-3 programs; and a curriculum in secondary education.

Secondary Education is a major planned to offer academic, cultural, and professional experience significant to the personal and professional competence of a beginning teacher of a specialized subject area in the secondary schools. The curriculum requirements comprise general education, professional education, and a subject area concentration.

Early Childhood Education (N-K-3)

Recommended General Education Courses

A total of 54 semester hours in General Education Courses is prescribed for the early childhood education major inclusive of 6 semester hours in mathematics, 3 semester hours in biology, 3 semester hours in physical science, and 12 semester hours in social science elected from three of the groupings listed in the section on General Education requirements on page 88. This should include at least 6 semester hours in composition and 3 semester hours in literature.

Academic Background Courses

Academic background courses include: 6 semester hours in mathematics; 3 semester hours in biology; 3 semester hours in physical science; 12 semester hours in social sciences elected from three of the groupings listed in the section on General Education Requirements, including at least 6 semester hours in composition and 3 semester hours in literature.

Required Courses

The following courses in Educational Foundations (Code 60), Early Childhood and Elementary Education (Code 62), and Special Education (Code 70) develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching, and methods of teaching particular subjects, and to provide student teaching experience. A total of 65 semester hours is taken in required courses. None may be taken on a pass/fail basis.

- 60.201 Field Studies in Education I
- 60.204 Educational Computing and Technology
- 60.251 Psychological Foundations of Education
- 60.291 Principles of Teaching
- 60.301 Field Studies in Education II
- 60.311 Educational Measurements and Evaluation
- 60.375 Teaching the Reluctant Reader
- 60.393 Social Foundations of Education or 60.394 Education in an Urban Society
- 60.497 Teaching in Education: First Experience
- 60.498 Teaching in Education: Second Experience
- 62.121 Introduction to Early Childhood Education
- 62.302 Teaching Science in the Elementary School
- 62.310 Teaching Fine Arts in the Elementary School
- 62.322 Seminar in Learning Experiences with Young Children
- 62.371 Teaching Reading in the Elementary School
- 62.373 Diagnostic and Remedial Reading
- 62.390 Teaching Social Studies in the Elementary School
- 62.391 Teaching Language Arts in the Elementary School
- 62.398 Teaching Mathematics in the Elementary School
- 62.410 Workshop in Preschool Education
- 70.101 Introduction to Exceptional Individuals

Elective Courses

A minimum of 9 semester hours is taken in elective courses. None of these courses may be taken on a pass/fail basis.

- 05.311 Methods and Materials in Elementary School Physical Education
- 05.320 Health and Safety in the Elementary School
- 20.351 Literature for Children
- 30.205 Children's Art
- 60.302 Research Literacy
- 60.427 Classroom Management and Effective Discipline
- 62.304 Environmental Education in the Elementary School
- 62.376 Language Experiences for Children
- 62.389 Individualized Instruction Activities in the Elementary School
- 62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education

62.480 A Study of Discipline in the Elementary School

79.312 Internship in Education (1 to 3 semester hours only in this area)

An area of concentration is optional.

No free electives are available for this program.

Elementary Education (K-6)

Recommended General Education Courses

A total of 54 semester hours in General Education courses is prescribed for the elementary education major inclusive of 6 semester hours in mathematics, 3 semester hours in biology, 3 semester hours in physical science, and 12 semester hours in social science elected from three of the groupings listed in the section on General Education Requirements. This should include at least 6 semester hours in composition and 3 semester hours in literature.

Required Courses

These courses are intended to develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching, and methods of teaching particular subjects, and to provide student teaching experience. A total of 53 semester hours is taken in required courses. None may be taken on a pass/fail basis.

60.201 Field Studies in Education I

60.204 Educational Computing and Technology

60.251 Psychological Foundations of Education

60.291 Principles of Teaching

60.301 Field Studies in Education II

60.311 Educational Measurements and Evaluation

60.375 Teaching the Reluctant Reader

60.393 Social Foundations of Education or 60.394 Education in an Urban Society

60.497 Teaching in Education: First Experience 60.498 Teaching in Education: Second Experience

62.302 Teaching Science in the Elementary School

62.310 Teaching Fine Arts in the Elementary School

62.310 Teaching Fine Arts in the Elementary School or 35.311 Music in the Elementary School

62.371 Teaching Reading in the Elementary School

62.373 Diagnostic and Remedial Reading

62.390 Teaching Social Studies in the Elementary School

62.391 Teaching Language Arts in the Elementary School

62.398 Teaching Mathematics in the Elementary School

Elective Courses

No elective courses may be taken on a pass/fail basis. Students select a minimum of 9 semester hours from the following courses:

05.311 Methods and Materials in Elementary School Physical Education

05.320 Health and Safety in the Elementary School

20.351 Literature for Children

30.205 Children's Art

60.302 Research Literacy60.427 Classroom Management and Effective Discipline

62.121 Introduction to Early Childhood Education

62.304 Environmental Education for the Elementary School Teacher

- 62.322 Seminar in Learning Experiences with Young Children
- 62.376 Language Experiences for Children
- 62.389 Individualized Instruction Activities in the Elementary School
- 62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education
- 62.410 Workshop in Preschool Education
- 62.480 A Study of Discipline in the Elementary School
- 79.312 Internship in Education (1 to 3 semester hours only in this area)

An area of concentration is optional.

Internship or free electives if necessary to complete graduation requirements.

Dual Certification in Early Childhood and Elementary Education

Recommended General Education Courses

A total of 54 semester hours in General Education courses is prescribed for this dual certification program inclusive of 6 semester hours in mathematics, 3 semester hours in biology, 3 semester hours in physical science, and 12 semester hours in social science elected from three of the groupings listed in the section on General Education Requirements. This should include at least 6 semester hours in composition and 3 semester hours in literature.

Required Courses

These courses develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching, methods of teaching particular subjects, and to provide student teaching experience. A total of 65 semester hours in required courses is taken. None may be taken on a pass/fail basis.

- 60,201 Field Studies in Education I
- 60.204 Educational Computing and Technology
- 60.251 Psychological Foundations of Education
- 60.291 Principles of Teaching
- 60.301 Field Studies in Education II
- 60.311 Educational Measurements and Evaluation
- 60.375 Teaching the Reluctant Reader
- 60.393 Social Foundations of Education or 60.394 Education in an Urban Society
- 60.497 Teaching in Education: First Experience
- 60.498 Teaching in Education: Second Experience
- 62.121 Introduction to Early Childhood Education
- 62.302 Teaching Science in the Elementary School
- 62.310 Teaching Fine Arts in the Elementary School
- 62.322 Seminar in Learning Experiences with Young Children
- 62.371 Teaching Reading in the Elementary School
- 62.373 Diagnostic and Remedial Reading
- 62.390 Teaching Social Studies in the Elementary School
- 62.391 Teaching Language Arts in the Elementary School
- 62.398 Teaching Mathematics in the Elementary School
- 62.410 Workshop in Preschool Education

Elective Courses

A minimum of 9 semester hours is taken in elective courses. None of these courses may be taken on a pass/fail basis.

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- 05.311 Methods and Materials in Elementary School Physical Education
- 05.320 Health and Safety in the Elementary School
- 20.351 Literature for Children
- 30.205 Children's Art
- 60.302 Research Literacy
- 60.427 Classroom Management and Effective Discipline
- 62.304 Environmental Education for the Elementary School Teacher
- 62.376 Language Experiences for Children
- 62.389 Individualized Instruction Activities in the Elementary School
- 62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education
- 62.480 A Study of Discipline in the Elementary School
- 70.256 The Gifted Child
- 79.312 Internship in Education (1 to 3 semester hours only in this area)

An area of concentration is optional.

No free electives are available for this program.

Secondary Education (7-12)

Recommended General Education Courses

Some courses which satisfy General Education requirements are included in the course listings for the individual areas of specialization under secondary education.

Required Courses

A total of 35 semester hours in required courses is taken for this major.

- 60.201 Field Studies in Education I
- 60.204 Education Computing and Technology
- 60.251 Psychological Foundations of Education
- 60.291 Principles of Teaching
- 60.301 Field Studies in Education II
- 60.311 Educational Measurements and Evaluation
- 60.393 Social Foundations of Education or 60.394 Education in an Urban Society
- 60.497 Teaching in Education: First Experience
- 60.498 Teaching in Education: Second Experience
- 65.351 to 65.358 an appropriate subject matter methods course
- 65.374 Teaching of Reading in Academic Subjects

Free Electives

If necessary to complete the minimum graduation requirements of 128 semester hours.

Areas of Specialization in Secondary Education

Each area of specialization develops scholarship basic to teaching the content subject. Course requirements are enumerated under the area of specialization.

Biology

Biological and Allied Health Sciences 50.110, 50.120, 50.233, 50.242, 50.271, 50.332, 50.351, 50.380; Chemistry 52.111, 52.112 or 52.118, 52.113, 52.230, 52.341; Earth and

Space Science 51.101 or 51.255 or 51.259; Physics 54.103 or 54.105, or 54.106 or 54.110; 9 semester hours of elective courses in biology including 3 semester hours in a field course; plus Mathematics 53.113 or 53.123, 53.141 or Psychology 48.160.

Chemistry

Chemistry 52.111 and 52.112 or 52.118; plus 52.113, 52.221, 52.231, 52.232, 52.251, 52.341, 52.361, 52.362, 52.481; Physics: 54.211, 54.212; Mathematics: 53.125, 53.126, 53.225; Computer Science 53.175; Biological and Allied Health Sciences 50.110 or 50.120; Earth Science/Geology 51.101 and 51.111 or 51.102 and 51.112.

Communications/Media

English 20.302, 20.311, and 20.312; Theater Arts 26.102; Mass Communications 27.315; and one course in World Literature:

- Group 1 Mass Communications 27.210, 27.310, 27.415;
- Group 2 Two courses from 27.190, 27.230, 27.251, 27.261, 27.270;
- Group 3 Three courses from 27.271, 27.334, 27.336, 27.352, 27.371, 27.435, 27.469, 27.482.

Communication/Speech

English 20.302, 20.311, 20.312; one course in World Literature; one course in Mass Communications; Speech Communication 25.104, 25.206 or 25.241, 25.205 or 25.215 or 25.315; Theater Arts 26.102 and one course from 26.211, 26.215, 26.316, 26.416; and four courses selected from the Code 25 course listing.

Note: 25.103 Public Speaking is required for secondary education majors and is listed among the General Education courses for communication. One semester of 25.108 Forensic Practicum also is required and; therefore, it may not be applied toward this requirement. Speech Communication majors must participate in the Bloomsburg University Forensic Society for a minimum of one semester under 25.108. A grade of pass/fail is issued.

Communication/Theater

English 20.302, 20.311, 20.312; one course in World Literature; one course in Mass Communications; Speech Communication 25.206 or 25.241; Theater Arts 26.102, 26.211, 26.215 or 26.316 or 26.416; plus four courses from the Code 26 course listing.

Note: 25.103 Public Speaking is required for secondary education majors and is listed among the General Education courses for communication. One semester of 26.108 Theater Practicum also is required and; therefore, it may not be applied toward this requirement. Theater/Communication majors must participate in the Bloomsburg University Players for a minimum of one semester under 26.108. A grade of pass/fail is issued.

Earth and Space Science

Earth Science/Geology 50.101, 51.101, 51.102, 51.105, 51.111, 51.112, 51.253, 51.255, 51.259; Chemistry 52.111, 52.112, 52.113; Physics 54.111, 54.112; Computer Science 53.175; one course from Mathematics 53.112, 53.113, 53.123, 53.125, 53.126; three courses from Earth Science/Geology 51.105, 51.261, 51.262, 51.355, 51.360, 51.365, 51.369, 51.370, 51.451, 51.453, 51.461, 51.462, 51.468, 51.470; and a maximum of 9 semester hours in marine science courses offered by the Marine Science Consortium and listed under Code 55 in the *Biology* section on page 130.

English

English 20.203 is required in place of 20.200, 20.201 and also is required of those students who have taken 20.104. Required courses, totaling 30 semester hours, are: English 20.226, 20.236 or 20.237, 20.246 or 20.247, 20.256 or 20.257; one of the preceding courses not previously taken or 20.227; one non-print media course from Mass Communications 27.315, 27.388, History 42.226, Sociology 45.400; and English 20.302, 20.311, 20.312, 20.363, 20.385. Elective courses account for 12 semester hours and are drawn from 300 or 400 level English courses; only one may be from 20.300 or 20.301 or 20.303.

French

French 10.203, 10.204, 10.205, 10.206, 10.207, 10.211, 10.325, 10.402, 10.422, 10.423; and English 20.311 or 20.411. Electives: 10.281, 10.290, 10.295, 10.309, 10.331, 10.401, 10.409, 10.490.

Note: A student exempted from a required course must substitute the course in child psychology and anthropology in this curriculum.

General Science

Biological and Allied Health Sciences 50.110, 50.120; Chemistry 52.111 and 52.112 or 52.118, 52.113; Physics 54.111 or 54.211, 54.112 or 54.212; Earth Science/Geology 51.101, 51.102, 51.111; Mathematics 53.123, 53.141 or 53.241; Philosophy 28.303; History 42.250; one additional science course, Physics 54.110 or any 200 level or above science course; 16 semester hours of additional science courses.

Mathematics

Mathematics 53.125, 53.126, 53.185, 53.225, 53.226, 53.231, 53.241, 53.310, 53.314, 53.360; Computer Science 56.121; and 9 semester hours in courses which must include at least one computer science course numbered 56.122 or higher and at least one mathematics course numbered 53.271 or higher.

Physics

Physics 54.211, 54.212, 54.302, 54.310, 54.314, 54.315, 54.318, 54.400; Biology 50.110 or 51.101; Chemistry 52.111, 52.112; Earth Science/Geology 51.102; Mathematics 53.125, 53.126, 53.225, 53.322. Select an elective course in physics totaling 3 semester hours.

Spanish

Spanish 12.203, 12.204, 12.205, 12.206, 12.207, 12.211, 12.214, 12.325, 12.331, 12.402, 12.421; and English 20.311 or 20.411.

Note: A student exempted from a required course must substitute the course with an advanced elective in Spanish. Students also should include a course in child psychology and anthropology in their curriculum.

Comprehensive Social Studies

Anthropology

Anthropology 46.200, 46.210, 46.220, 46.340, 46.390, and 46.440; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122, and 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120.

Economics

Anthropology 46.200; Sociology 45.211; Economic 40.211; 40.212, 40.311, 40.312, 40.313, 40.422 or 40.423; plus 9 semester hours from 40.315, 40.316, 40.410, 40.413, 40.415, 40.424, 40.433, and 40.434; History 42.112, 42.113, 42.121, 42.122 or 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120

Geography

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122 or 42.222; Political Science 44.101, 44.120; Psychology 48.101; Geography 41.101, 41.102, 41.105; plus 18 semester hours in geography; and 3 semester hours taken from economics, sociology, political science or history, or Psychology 48.210.

History

Anthropology 46.200; Economics 40.211, 40.212; Geography 41.101, 41.102; Political Science 44.101, 44.120; History 42.112, 42.113, 42.121, 42.122, 42.398; plus 9 semester hours from 42.141, 42.142, 42.143 or 48.228, 42.144, 42.452; 3 semester hours in history selected from 42.372, 42.379, 42.381, 42.383, 42.385, 42.392; and 3 semester hours in history selected from 42.133, 42.319, 42.320, 42.326, 42.327, 42.328.

Philosophy

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113; 42.121, 42.122; Geography 41.101, 41.102; Political Science 44.101, 44.120; Philosophy 28.111, 28.212, 28.220 or 28.290, 28.224 or 28.351; plus one elective course from the Code 28 listing.

Political Science

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121 or 42.122; Geography 41.101, 41.102; Political Science 44.101, 44.120, 44.160, 44.210, 44.280, and three courses selected from 44.207, 44.363, 44.366, 44.376, 44.440, 44.448, 44.452, and 44.487.

Note: 44.207 can be used to satisfy the values requirement in General Education.

Psychology

Anthropology 46.200; Sociology 45.211; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122, 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120; Psychology 48.101, 48.160, 48.251, 48.281, 48.451, 48.476, plus additional courses in psychology totaling 6 semester hours.

Sociology

Anthropology 46.200; Economics 40.211, 40.212; History 42.112, 42.113, 42.121, 42.122, 42.222; Geography 41.101, 41.102; Political Science 44.101, 44.120; Sociology 45.211, 45.213, 45.133 or 45.236, 45.216 or 45.462, 45.231 or 45.318; and 6 semester hours taken from the preceding sociology courses not previously taken.

EDUCATIONAL FOUNDATIONS (Code 60)

60,201 Field Studies in Education I

1 semester hour

Field trips to observe various teaching-learning situations. Students required to develop competence in operating all audiovisual equipment. On-campus seminars by arrangement with the instructor.

Prerequisite: 30 semester hours

60.204 Educational Computing and **Technology**

3 semester hours

Introduction to computer technology and the school setting that utilizes computers. Prerequisite: 45 semester hours

60.251 Psychological Foundations of Education

3 semester hours

Reviews psychological foundations of education, individual differences, learning theories applied to a classroom situation, physical and mental growth, mental hygiene, and personality development.

Prerequisite: 48.101

60.291 Principles of Teaching

3 semester hours

Designed as a competency-based course enabling the student to develop an awareness of the teaching process as it sequentially develops. Various instructional techniques, methodologies, and approaches explored. Topics include: specifying instructional/behavioral objectives, sequencing learning activities, applying the various taxonomies, conducting micro-teaching, discipline strategies, questioning techniques, and mastery teaching. Class term project includes unit lesson plan. and evaluative instrument construction.

Prerequisites: 60.201, 60.251

60.301 Field Studies in Education II 1 semester hour

Active involvement in a school setting two

to three hours per week for approximately 10 weeks. Remaining time spent in campus class seminars by arrangement with instructor. Prerequisite: 60 semester hours

60.302 Research Literacy

3 semester hours

Provides an introduction to research methods and techniques. Gives the student the basic understanding to be a better consumer of research, to be more aware of the value of research, and to be able to carry out beginning-level research projects.

60.311 Educational Measurements and Evaluation

3 semester hours

Reviews principles of evaluation; grading; representative standardized tests; vocabulary of measurement, test construction, and interpretation; informal and formal measurement in the cognitive, effective, and psychomotor areas.

Prerequisite: 45 semester hours

60.375 Teaching the Reluctant Reader 3 semester hours

Addresses methods and materials for the instruction of the disadvantaged child (K-12). Presents techniques and theories as they may be applied to help the socially disadvantaged child function more adequately in the school environment.

Prerequisite: 45 semester hours

60.393 Social Foundations of Education 3 semester hours

Reviews social processes underlying education, current social forces, the place of the school in American culture, impact of social stratification, and role of the teacher in a period of rapid social change.

Prerequisite: 45 semester hours

60.394 **Education in an Urban Society 3 semester hours

Studies the formal educational settings that serve areas in the United States with high population densities and the social factors that influence education in these settings. Fulfills the social foundations requirements for certification.

Prerequisite: 45 semester hours

60.427 Classroom Management and Effective Discipline

3 semester hours

Focus on strategies for effective discipline and classroom management. Methods of planning for the beginning of the year and for establishing an effective classroom organization to promote appropriate behavior throughout the year are reviewed. Current models and major theories of discipline are reviewed and evaluated.

Prerequisites: 60.251, 60.291, 60.201, 60.301

60.431 Independent Study

1-3 semester hours

Requires consent of the department chairperson to schedule.

60.441 Workshop in Education

60.442/60.443 1-6 semester hours

Studies selected areas of education including research by individual students in a special teaching field.

60.451 Pupil Personnel Services in the Public School

3 semester hours

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

60.497 Teaching in Education: First Experience

6 semester hours

Provides opportunities for direct participating experiences. Places students in classrooms with public or private school teachers. The student's major determines their assignment: K-6—one experience in a primary level and one experience in an intermediate level of a public school; N-K-3—one experience in a preschool situation and one in a primary level of a public school or two experiences in a primary level of a public school.

60.498 Teaching in Education: Second Experience

6 semester hours

The secondary student teaching assignment is determined by the student's area of specialization.

**Indicates course approved as diversity-focused.

EARLY CHILDHOOD and ELEMENTARY EDUCATION (Code 62)

62.121 Introduction to Early Childhood Education

3 semester hours

Examines the historical and philosophical foundations of early childhood education. Analyzes current trends and practices for teaching children from birth to age 6.

62.302 Teaching Science in the Elementary School

3 semester hours

Emphasizes the major methods and materials used in elementary school science.
Prerequisite: 64 semester hours

62.304 Environmental Education in the Elementary School

3 semester hours

Provides learning experiences for the elementary school level in environmental education programs.

62.310 Teaching Fine Arts in the Elementary School

3 semester hours

Provides competencies in the selection and implementation of materials and procedures for teaching literary, visual, and performing arts to elementary school children. Emphasizes comprehension and integration of fine arts into all areas of the school curriculum. Prerequisite: 45 semester hours

62.322 Seminar in Learning Experiences with Young Children

3 semester hours

Outlines physical, mental, emotional, and social levels of children from birth to age 8, with attention to environmental factors that foster child growth. Examines preschool and kindergarten programs to meet the needs of this age child and to provide the background of experience needed for later ventures into reading, art, arithmetic, science, social studies, music, literature, physical education, and health.

Prerequisites: Psychology 48.101, 48.211

62.371 Teaching Reading in the Elementary School

3 semester hours

Examines developmental reading from readiness through sixth grade.

Prerequisite: 45 semester hours

62.373 Diagnostic and Remedial Reading 3 semester hours

Presents diagnostic and remedial procedures emphasizing both standardized and informal techniques.

Prerequisite: 62.371

62.376 Language Experiences for Children

3 semester hours

Explores the language development of children and factors that influence skill in effective communication development from nursery school through sixth grade. Provides a background for students in language arts and literature for children.

Prerequisite: 45 semester hours

62.389 Individualized Instruction Activities in the Elementary School 3 semester hours

Emphasizes procedures for helping individuals learn the informal school concept and rearranging the elementary classroom into an efficient and effective learning area with emphasis on a language arts center, mathematics center, science centers, and social studies centers.

Prerequisite: 45 semester hours

62.390 Teaching Social Studies in the Elementary School

3 semester hours

Emphasizes methods and materials appropriate for teaching elementary school social studies in contemporary society.

Prerequisite: 64 semester hours

62.391 Teaching Language Arts in the Elementary School

3 semester hours

Emphasizes methods and materials designed to help elementary school children develop communication skills for today's complex society. Includes all areas of a modern language arts curriculum.

Prerequisite: 64 semester hours

62.398 Teaching Mathematics in the Elementary School

3 semester hours

Outlines mathematical methods, materials, understandings, and attitudes essential in the teaching of contemporary programs in the elementary school.

Prerequisite: 64 semester hours

62.400 Workshop in Teaching Mathematics in Early Childhood and Elementary Education

1-6 semester hours

Presents a workshop format to provide individual or group study of problems concerned with teaching mathematics at early childhood and elementary levels.

62.410 Methods and Materials in Early Childhood Education I

1-6 semester hours

Provides teachers with a workshop experience in infant daycare centers and nursery schools. Provides methods and materials that teachers can use and construct in their centers and classrooms. Examines theories of Bruner, Piaget, Froebel, and Montessori. Prerequisites: 62.121, 62.322

62.410 Methods and Materials in Early Childhood Education II

1-6 semester hours

Provides teachers with a workshop experi-

ence in infant daycare centers and nursery schools. Provides methods and materials that teachers can use and construct in their centers and classrooms. Examines theories of Bruner, Piaget, Froebel, and Montessori. Prerequisites: 62.121, 62.322

62.431 Independent Study in Elementary Education

3 semester hours

Individual projects in education. Requires consent of the department chairperson.

62.480 A Study in Discipline in the Elementary School

3 semester hours

Emphasizes techniques designed to modify behavior in a positive way. Prerequisite: 45 semester hours

SECONDARY EDUCATION (Code 65)

65.351 Teaching Communication in the Secondary School

Fall 3 semester hours Prerequisites: 60.201, 60.251,60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.352 Teaching Mathematics in the Secondary School

Spring 3 semester hours Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.353 Teaching Science in the Secondary School

Fall 3 semester hours Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.355 Teaching Social Studies in the Secondary School

Fall 3 semester hours Prerequisites: 60.201, 60.251, 60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.358 Teaching Foreign Language in the Secondary School

Spring 3 semester hours Prerequisites: 60.201, 60.251,60.291, 60.301, 60.393; Junior standing in an area of concentration in Secondary Education

65.374 Teaching Reading in Academic Subjects

3 semester hours

Understanding techniques for developing reading skills applicable to the secondary school. Emphasis on readiness, comprehension, silent reading, and oral reading through secondary school academic subjects.

Prerequisite: 45 semester hours

65.411 Seminar in Secondary Education 3 semester hours

Activities center around concerns and problems encountered in secondary education. The range of activities is determined by individual need and by levels of professional competency including diagnosis, mutual development of objectives, and self evaluation.

65.431 Independent Study in Secondary Education

1-3 semester hours

Requires consent of department chairperson.

PROFESSIONAL STUDIES (Code 79)

79.312 Internship in Education

1-15 semester hours

A work study program in an education-related setting applicable to fulfilling free electives in teacher education degree programs.

Faculty Credentials

ELAINE ANDERSON

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RAYMOND E. BABINEAU

B.A., M.A., Montclair State College; Ed.D., Temple University

C. MEEDE BEERS

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B.S., M.Ed., Ed.D., Indiana University of Pennsylvania

JANE MCPHERSON

B.A., Western Washington State College; M.Ed., Western Washington University; M.S., Ph.D., University of Oregon

GORMAN L. MILLER

B.A., LaVerne College; M.S., Indiana University; Ed.D., Ball State University

FRANK MISITI

B.S., Mansfield State College; M.Ed., Ph.D., The Pennsylvania State University

WILLIAM S. O'BRUBA

B.S., California State College; M.Ed., Duquesne University; Ed.D., Indiana University of Pennsylvania

GILDA M. ORAN

B.A., University of Toronto; M.Ed., Ed.D., University of Miami

EDGERTON OSUNDE

B.S., Ahmadu Bello University; M.A., Case Western Reserve University; M.A., Ph.D., The Ohio State University

EDWARD J. POOSTAY

B.S., Temple University; M.Ed., The Pennsylvania State University; Ph.D., University of Georgia

DONALD L. PRATT

B.S., Utica College of Syracuse University; M.Ed., St. Lawrence University; Ph.D., University of South Florida

ROSEMARY RADZIEVICH

B.A., The Pennsylvania State University; M.Ed., Bloomsburg University; Ed.D., Lehigh University

LORRAINE A. SHANOSKI

B.S., M.Ed., Northeastern University; Ed.D., Indiana University of Pennsylvania

DAVID E. WASHBURN

B.A., M.Ed., Ph.D., University of Arizona; Postdoctoral Certificate in Multicultural Education, University of Miami

MARY ALICE WHEELER

B.A., University of Denver; M.S., Georgetown University; Ph.D., University of Pennsylvania

BONNIE L. WILLIAMS

B.S., M.Ed., Bloomsburg University; Ed.D., Temple University

PATRICIA WOLF

B.A., Morehead University; M.A., Duquesne University; Ph.D., University of Pittsburgh

Engineering and Liberal Arts

College of Arts and Sciences

Program Coordinator

Gunther L. Lange, assistant professor, Department of Physics

Advisory Committee

Stephen D. Beck, professor, Department of Mathematics and Computer Science

Marlana Blackburn, assistant professor, Department of Chemistry

Norman M. Gillmeister, associate professor, Department of Geography and Earth Science

Gunther L. Lange, assistant professor, Department of Physics

Degree Program

A 3/2 cooperative dual-degree program: Bachelor of Arts in Physics or Mathematics from Bloomsburg University and Bachelor of Science in an engineering discipline from The Pennsylvania State University or Wilkes University

Goals and Objectives

The engineering and liberal arts program provides the opportunity for students to pursue a rewarding and challenging career in the high-demand field of engineering without forgoing the broader scope of a Bloomsburg University educational experience. This cooperative program of study leads to two baccalaureate degrees, one in liberal arts and sciences awarded by Bloomsburg University and one in an area of engineering from either The Pennsylvania State University or Wilkes University. Candidates for these degrees spend three years at Bloomsburg University, where they study science, mathematics, pre-engineering, and a broad variety of liberal arts subjects, followed by two years at the University Park campus of Penn State or at Wilkes University in Wilkes-Barre, where they study engineering disciplines.

Students may pursue an engineering education in any of the following areas:

Aerospace Engineering Penn State
Agricultural Engineering Penn State
Ceramic Science and Engineering Penn State
Chemical Engineering Penn State
Civil Engineering Penn State
Computer Engineering Penn State

Electrical Engineering Wilkes or Penn State

Engineering Management Wilkes
Engineering Science Penn State
Environmental Engineering Wilkes
Industrial Engineering Penn State
Materials Engineering Wilkes

Mechanical Engineering Wilkes or Penn State

Metals Science and Engineering
Mining Engineering
Nuclear Engineering
Penn State
Petroleum and Natural
Penn State
Penn State
Penn State
Penn State

Gas Engineering

Required Courses

All students in this program must complete the following 48 semester hours at Bloomsburg University plus additional courses specific to their field of interest in engineering.

Physics (11 semester hours)

54.211 General Physics I, 54.212 General Physics II, 54.310 Modern Atomic Physics

Chemistry (8 semester hours)

52.115 Fundamentals of Inorganic Chemistry and 52.216 Chemical Principles and Measurements

Mathematics (18 semester hours)

53.125 Analysis I, 53.126 Analysis II, 53.225 Analysis III, 53.226 Analysis IV, 53.322 Differential Equations, 53.314 Linear Algebra

Computer Science (3 semester hours)

56.210 Algorithmic Processes

Pre-Engineering (8 semester hours)

Only offered alternate years, 54.301 Mechanics: Statics, 54.302 Mechanics: Dynamics, 51.173 Introductory Engineering Graphics, 51.174 Engineering Design Graphics

Program-Specific Course Requirements

- Candidates planning to pursue an engineering degree at Wilkes University must take the following courses: Physics, 54.315 Electronics (4 semester hours) or 54.400 Advanced Physics Laboratory (2 semester hours), and one of the following: 09.213 Science, Technology, Human Values (3 semester hours); 41.105 Environmental Issues and Choices (3 semester hours); or 44.207 Ethics, Politics, and Public Policy (3 semester hours)
- Candidates planning to pursue an engineering degree at Penn State must take 25.103 Public Speaking (3 semester hours)
- Candidates in certain engineering programs also must meet additional course requirements. These course requirements are as follows:

Aerospace, Electrical or Nuclear Engineering

53.491 or 53.492 in Partial Differential Equations (3 semester hours)

Chemical or Materials Engineering

52.131 Fundamentals of Organic Chemistry (4 semester hours)

52.232 Intermediate Organic Chemistry (4 semester hours)

Chemical engineering students are excused from 54.302 Mechanics: Dynamics

Environmental Engineering

52.131 Fundamentals of Organic Chemistry (4 semester hours)

52.232 Intermediate Organic Chemistry (4 semester hours) or 50.173 Anatomy and Physiology I (4 semester hours) 50.174 Anatomy and Physiology II (4 semester hours)

Engineering Management

53.141 Introduction to Statistics (3 semester hours) or 53.241 Probability and Statistics (3 semester hours)

40.211 Principles of Economics I (3 semester hours)

40.212 Principle of Economics II (3 semester hours)

Mining Engineering

51.101 Physical Geology (3 semester hours)

51.261 Mineralogy (4 semester hours)

Petroleum and Natural Gas Engineering

51.101 Physical Geology (3 semester hours)

51.102 Historical Geology (3 semester hours)

Additional Course Requirements

In addition to the above requirements, all candidates must satisfy the General Education requirements of Bloomsburg University and the specific requirements for a major (usually in the sciences or mathematics). Students should consult the program coordinator each semester as they plan their schedules to insure that all requirements are met. With careful planning, it is possible to satisfy the General Education requirements of the university and the engineering college simultaneously.

Required Academic Performance

Students wishing to complete their studies at The Pennsylvania State University must maintain a quality point average (QPA) of 3.0 overall and a 2.75 in required core courses. In a few majors, a 2.5 overall average may be sufficient for transfer, and these are subject to change from year to year.

For transfer to Wilkes University, students must maintain a QPA of 2.5 overall. Transfer candidates to the environmental engineering, materials engineering, and engineering management programs are required to have a 2.65 QPA in science, mathematics, and preengineering courses, while candidates to the electrical engineering program must maintain a 2.75 average in these technical courses.

Admission Procedures

To enter the program, individuals need only apply and be accepted for admission to Bloomsburg University. However, applicants should be aware that any engineering program requires the application of strong mathematical and problem-solving skills. It is expected that the student's high school mathematics background is sufficient for enrollment in 53.125, the initial course in the required calculus sequence, during the first semester of study.

Applicants for admission who previously were registered as degree candidates and established an academic record as degree candidates at The Pennsylvania State University prior to entering this cooperative program at Bloomsburg University will be considered readmission candidates and must meet additional enrollment criteria for readmission to The Pennsylvania State University.

Students should indicate a desire to follow this program of study at the time of admission to Bloomsburg University in order to insure sufficient time to complete all of the required courses. Notification should be made to the director of academic advisement who, in turn, will notify the coordinator of the Engineering and Liberal Arts Program. The coordinator will assign each student an academic adviser who is a member of the Pre-Engineering Advisory Committee. Students should consult both their advisers and the coordinator for assistance in

schedule planning. At the end of the second year of study, students become candidates for transfer if they have maintained a sufficiently high QPA.

Transferring to The Pennsylvania State University

In September of the third year of study, students should apply for transfer to The Pennsylvania State University. All correspondence and the application should clearly indicate that the transfer is requested under a cooperative 3/2 program. Nov. 30 is the application deadline. Successful applicants will be offered provisional admission to Penn State for the following fall semester.

Completed applications should be supported by the following documentation:

- An official transcript of the applicant's final secondary school grades;
- Two official transcripts of the applicant's Bloomsburg University academic record including all grades earned;
- A schedule of all courses to be taken in the third year;
- A letter of recommendation from the Pre-Engineering Advisory Committee.

At the end of the third year of study, two copies of the student's official Bloomsburg University transcript should be forwarded to the Admissions Office of The Pennsylvania State University. Students who have maintained the required quality point average, who have completed all required courses, and who are recommended by the Pre-Engineering Advisory Committee, will be offered permanent admission to Penn State.

Transferring to Wilkes University

At the beginning of the third year of study, students should apply for transfer to Wilkes University through the coordinator of the program at Bloomsburg University. Applications are available in the coordinator's office.

Completed applications should be supported by the following credentials:

- An official transcript of the applicant's final secondary school grades;
- An official Bloomsburg University transcript of the applicant's grades including all grades earned during the first two years;
- A schedule of all courses to be taken during the third year.

The Pre-Engineering Advisory Committee reviews these credentials and submits a recommendation to the dean of admissions of Wilkes University. Successful applicants will be offered provisional admission to Wilkes University for the following summer.

At the end of the third year, a copy of the student's official Bloomsburg University transcript should be submitted to the coordinator. Students who have maintained the required quality point average, who have completed all the required courses, and who are recommended by the Pre-Engineering Advisory Committee, will be offered permanent admission to Wilkes University.

Receiving a Bloomsburg University Degree

In January of the student's final year in engineering college, the student should send an official transcript of all courses taken to the registrar at Bloomsburg University. A letter indicating intent to graduate should be sent to the coordinator of the Engineering and Liberal Arts Program so that course evaluations can be made. The registrar, upon evaluation of the transcript, will arrange for a diploma to be awarded at the university's May graduation.

Department of English

College of Arts and Sciences

Chairperson

William M. Baillie

Professors

William M. Baillie Lawrence B. Fuller

Ervene F. Gulley, assistant chairperson

Gerald H. Strauss

Associate Professors

M. Dale Anderson

Mary G. Bernath, part-time

William D. Eisenberg

Ronald A. Ferdock

Nancy E. Gill

S. Michael McCully

Francis J. Peters

Danny L. Robinson Glenn E. Sadler Rilev B. Smith

Assistant Professors

Mary-Jo Arn

Janice Broder

M. A. Rafey Habib

Edwin P. Moses, part-time Marion B. Petrillo, part-time

Terrance C. Riley

Sabah Salih

Louise M. Stone, part-time

Director, University Writing Center

Terrance C. Riley

Degree Program

Bachelor of Arts in English

A total of 48 semester hours is required for a major in English.

Goals and Objectives

The department offers a program leading to a Bachelor of Arts in English and provides the English courses for Bachelor of Science in Education in two areas of concentration, English and Communication, which culminate in certification for teaching in secondary schools.

The department also offers a minor in English for students who want to add its benefits to

their undergraduate programs of study.

The discipline of English opens doors to personal satisfaction and many kinds of careers. With its emphasis on writing and literature, an English degree helps students develop communication skills and gain a broad knowledge of human nature and society. These qualities are needed in daily experience as well as in business, education, medicine, law, and government service.

Required Courses

Required courses include:

20.203, 20.226, 20.236, 20.237, 20.246, 20.247, 20.256 or 20.257, 20.363, 20.386 or 20.387, 20.488 or 20.489, 20.492 or 20.493.

One course from 20.311, 20.312, 20.411, 20.413.

One course from 20.333, 20.334, 20.335, 20.373.

One course from 20.341, 20.342, 20.344, 20.345, 20.346, 20.347, 20.364, 20.370, 20.375.

One course from 20.301, 20.302, 20.303, 20.306, 20.370, 20.372, 20.373, 20.374, 20.375, 20.377, 20.379.

Two other 300-400 level courses. No course may be used to satisfy more than one requirement.

Minor in English

20.226 European Literature I, 20.237 American Literature II, 20.247 British Literature II, 20.363 Shakespeare, and two English courses at the 300-400 level, excluding 20.384 and 20.385.

ENGLISH (Code 20)

The student must take English 20.101 and one of 20.200, 20.201, 20.203; if selected on basis of admission criteria, the student takes English 20.104 only.

20.101 Composition I

3 semester hours

Study and practice of the principles of composition to improve proficiency in writing skills.

20.104 Honors Composition

3 semester hours

Similar to 20.101 but offered only to freshmen exempted from 20.101 on the basis of admission criteria. Study and practice in short and long essays and in research-supported writing. Students who successfully complete 20.104 are exempt from 20.200 and 20.201.

20.111 Language and Social Interaction 3 semester hours

A study of varieties of language, verbal and non-verbal, and their communicative and social functions. Not applicable toward a major in English.

20.112 Practical Grammar and Usage 3 semester hours

A study of grammatical forms, rules, and accepted usage of current written standard English, with practical application to improve diction, sentence structure, and style. Not applicable toward a major in English.

20.131 The Bible as Literature

3 semester hours

Examination of literary types found in the Old and New Testaments and their profound influence on Western culture. Not applicable toward a major in English.

20.151 Introduction to Literature

3 semester hours

Exploration of literature as experience and

the techniques by which it communicates in short story, novel, drama, and poetry. Not applicable toward a major in English.

20.152 Literature and Society

3 semester hours

Readings selected for consideration of purposes, characteristics, issues, and values of specific areas (such as business, psychology, or science) from a humanistic perspective. Not applicable toward a major in English.

20.153 Folklore

3 semester hours

A survey of such traditional forms of oral literature as epic, ballad, folksong, folktale, and superstitions examined in terms of origin, transmission, and influence on literature. Not applicable toward a major in English.

20.154 Folklore of the American West 3 semester hours

A study of folklore genres, including legends, tall tales, ballads, and customs of Native Americans, English, French, and Spanish of the Trans-Mississippi West. Not applicable toward a major in English.

20.156 Popular Literature

3 semester hours

Study of one type of popular literature (such as detective fiction, science fiction, literature of terror, or popular drama) and examination of its forms, conventions, and ideas. Course content varies with each presentation of the course. Not applicable toward a major in English.

20.200 Writing Proficiency Examination 3 semester hours

A series of compositions written under examination conditions on topics provided by the staff. Faculty consultations and a writing laboratory are available for students in the course. Not for English majors.

Prerequisite: 20.101

20.201 Composition II

3 semester hours

Intermediate-level study and practice in composition, reinforcing and expanding basic writing skills. Instruction in short and long essays and in research-supported writing.

Prerequisite: 20.101 or consent of department chairperson

20.203 Approaches to Literary Study 3 semester hours

An introduction to writing about literature; a consideration of research techniques and types of literary analysis. Satisfies requirement for Composition II. Required for all English majors, Arts and Sciences, and Secondary/English

Prerequisite: 20.101 or 20.104; open to all students

20.226 European Literature I

3 semester hours

Major Continental literary works in translation from the classical Greek period through the Renaissance, including Biblical backgrounds.

20.227 European Literature II

3 semester hours

Major Continental literary works in translation from the 17th century to the present.

20.236 American Literature I

3 semester hours

Survey of American literature from its colonial beginnings through the Civil War.

20.237 American Literature II

3 semester hours

Survey of American literature from the Civil War through the modern era.

20.246 British Literature I

3 semester hours

Survey of British literature from Beowulf through Samuel Johnson.

20.247 British Literature II

3 semester hours

Survey of British literature from the Romantics through the modern era.

20.256 Non-Western Literature I

3 semester hours

Study of a literature or literatures outside the traditions of European-American cultures.

20.257 Non-Western Literature II 3 semester hours

Study of a literature or literatures outside the traditions of European-American cultures, differing from 20.256 by either the literature(s) or the works studied.

20.280 Poetry

3 semester hours

Exploration of the nature of poetry in terms of its aims, forms, and substance.

20.300 Writing Children's Literature 3 semester hours

Approaches to and practice in writing children's books for publication. Consideration of various literary types and techniques with discussion of field research in writing nonfiction, fiction, and poetry for children. Prerequisite: 20.351 or 20.352 or consent of the instructor

20.301 Creative Writing: Fiction

3 semester hours

Original creative work in fiction; critical analysis by the instructor and the class in group discussion.

20.302 Advanced Composition

3 semester hours

Advanced study of writing nonfiction prose: form, style, audience, editing, evaluation. Prerequisite: 60 semester hours

20.303 Creative Writing: Poetry

3 semester hours

Lecture and discussion concerning the fundamental theory and techniques of poetry writing together with writing and evaluation of poems in a workshop situation.

Prerequisites: 20.280, 20.379 or consent of the instructor

20.306 Theory and Practice of Writing 3 semester hours

Introduction to new theories of writing and the teaching of writing including both study of and practice in the methods the theories require. Recommended for secondary education students in English, but open to all students interested in advanced work in writing.

Prerequisite: 45 semester hours

20.311 Structure of English

3 semester hours

Study of the sound patterns, morphology, word formation processes, semantics, and syntax of modern English, and of children's acquisition of their first language.

Prerequisite: 45 semester hours

20.312 History of the English Language 3 semester hours

Survey of the major developments in the English language from its Anglo-Saxon origins to the present.

Prerequisite: 60 semester hours or consent of the instructor

20.333 Modern American Prose

3 semester hours

Primarily non-fiction prose works of the 20th century, emphasizing social significance as well as literary merit.

20.334 Studies in American Literature 20.335 3 semester hours

Major American writers instrumental in shaping and interpreting the American experience. Writers vary with each presentation of the course.

20.341 Medieval Literature

3 semester hours

Major works of the Old and Middle English periods (the former in translation) that relate to a common theme, period, or genre (such as drama or metrical romance), generally excluding the works of Chaucer.

20.342 The Renaissance

3 semester hours

The poetry and nondramatic prose of the 16th and 17th centuries (to 1660), excluding the works of Milton.

20.344 The Neoclassical Age

3 semester hours

The prose, poetry, and drama of the period from 1660 through the end of the 18th century.

20.345 Romantic and Victorian Literature

3 semester hours

The poetry and prose of the late 18th and 19th centuries.

20.346 Studies in British Literature 20.347 3 semester hours

Major writers instrumental in shaping and interpreting the British experience. Writers vary with each presentation of the course.

20.363 Shakespeare

3 semester hours

Study of Shakespeare's plays with emphasis on Shakespeare as poet and playwright and attention to conditions of the Elizabethan theater and history of the Shakespearean text.

20,364 Chaucer

3 semester hours

Chaucer's major poetry (with practice in speaking and reading Middle English) including consideration of the medieval social and intellectual contexts of his work.

20,365 Milton

3 semester hours

The poetry and prose of John Milton considered in the contexts of his age, his puritanism, and his learning.

20.370 The English Novel

3 semester hours

History and development of the novel in England from its inception to the end of the 19th century.

20.372 Modern Novel

3 semester hours

Major modern novels, with emphasis on developments in fictional art. Writers vary with each presentation of the course.

20.373 American Novel

3 semester hours

The development of the novel, with emphasis on form, theme, and literary and social movements. Some attention to parallel developments in the English and European novel.

20.374 Short Story

3 semester hours

The history, characteristics, and techniques of the modern short story.

20.375 Renaissance Drama

3 semester hours

The plays of Shakespeare's predecessors and contemporaries and those of later Jacobean and Caroline dramatists.

20.377 Modern Drama

3 semester hours

Major Continental, English, and American plays from Ibsen to the present with emphasis on contemporary attitudes, themes, and style.

20.379 Modern Poetry

3 semester hours

A survey of contemporary poetry and poetic movements.

20.384 Literature for Children

3 semester hours

Studies the development of literature for children, including consideration of criteria for selecting literature for the classroom and library and methods for presenting literary works in an elementary classroom. Not applicable toward a major in English.

Prerequisite: 60 semester hours

20.385 Literature for Young Adults

3 semester hours

Critical discussion of literature aimed at

young adult readers or popular with them, by such writers as S.E. Hinton, Robert Cormier, Judy Blume, and Paul Zindel. Consideration of literary works for the secondary classroom with attention to the subject of censorship. Not applicable toward a major in English. Prerequisite: 60 semester hours

20.386 Studies in Contemporary 20.387 Literature

3 semester hours

Study of a topic, author, or movement significant in post-World War II literatures. Course content will vary.

20.411 Modern Linguistic Theory

3 semester hours

A survey of modern developments in linguistics, including transformational-generative grammar; applications of theory to patterns of language acquisition; current adaptations of theory for presentation as grammar in schools.

Prerequisite: 60 semester hours

20.413 Language in American Society 3 semester hours

Review of social, political, and philosophical perspectives on the historical development and current status of English and other languages in American society.

Prerequisite: 60 semester hours

20.481 Special Topics

3 semester hours

Study of a topic in literature; topic varies with each presentation of the course.

20.488 Seminar

20.489 3 semester hours

An opportunity to explore, at an advanced level, a literary or linguistic subject not offered in regularly scheduled courses. Content determined by the instructor.

Prerequisite: 60 semester hours

20.492 Literary Theory and Criticism 3 semester hours

Study of traditional literary criticism from

Aristotle to the present, as well as of contem-

porary trends in literary theory, at an advanced level.

Prerequisite: 60 semester hours

20.493 Bibliography and Literary Research

3 semester hours

Investigation of methods of literary scholarship and study of book history and production with practice in preparing specialized bibliographies and planning scholarly projects. Prerequisite: 60 semester hours

20.494 Rhetoric of Literature

3 semester hours

Study of major rhetorical devices, the nature and range of rhetorical designs; identification of these language devices in drama, prose, and poetry; and discussion of their effects on the reading audience.

Prerequisite: 60 semester hours

20.495 Independent Study in English 3-6 semester hours

Prerequisite: 60 semester hours

20.496 Literary Study Abroad 3 semester hours

A travel-study course for English majors and non-majors, concentrating on a writer or literary problem in the perspective of the relevant disciplines. Includes meetings with writers and scholars and the use of on-site resources. Area of emphasis determined by the instructor.

20.497 English Internship

1-12 semester hours

A work-study program. Not applicable toward major or minor in English. Open to English majors; others by departmental consent.

Prerequisite: 60 semester hours completed

Faculty Credentials

M. DALE ANDERSON

B.S.L., Nebraska Christian College; M.A., Fort Hays Kansas State College

MARY JO ARN

B.A., Westminister College; Ph.D., State University of New York at Binghamton

WILLIAM M. BAILLIE

B.A., Ball State Teachers College; M.A., Ph.D., University of Chicago

MARY G. BERNATH

B.A., M.A., Ph.D., University of Pittsburgh

JANICE BRODER

B.A., Mount Holyhoke; M.A., University of Michigan; M.A., Ph.D., Brandeis University

WILLIAM D. EISENBERG

B.A., University of Delaware; M.A., Lehigh University

RONALD A. FERDOCK

A.B., St. Vincent College; M.A., The Pennsylvania State University

LAWRENCE B. FULLER

A.B., Dartmouth College; M.A., Columbia University; M.A., The Pennsylvania State University; Ph.D., The Johns Hopkins University

NANCY E. GILL

B.A., M.A., Washington State University; Ph.D., The Pennsylvania State University

ERVENE F. GULLEY

A.B., Bucknell University; M.A., Ph.D., Lehigh University

M. A. RAFEY HABIB

B.A., University of Essex; D.Phil., University of Oxford

S. MICHAEL MCCULLY

B.A., Hendrix College; M.A., Western Illinois University; Ph.D., University of Iowa

EDWIN P. MOSES

B.A., Kansas State University; Ph.D., State University of New York at Binghamton

FRANCIS J. PETERS

B.A., Belmont Abbey College; M.A., Seton Hall University; Ph.D., New York University

MARION B. PETRILLO

B.A., Wilkes College; M.A., Duquesne University; Ph.D., State University of New York at Binghamton

TERRANCE J. RILEY

B.A., M.A., Ph.D., University of Michigan

DANNY L. ROBINSON

B.A., Northern Arizona University; M.A., Purdue University; Ph.D., Duke University

GLENN E. SADLER

A.B., Wheaton College; M.A., University of California at Los Angeles; Ph.D., University of Aberdeen, Scotland

SABAH A. SALIH

B.A., University of Baghdad; M.A., Ph.D., Southern Illinois University

RILEY B. SMITH

B.A., Ph.D., The University of Texas, Austin

LOUISE M. STONE

B.A., M.A., University of Michigan

GERALD H. STRAUSS

A.B., University of Pennsylvania; M.A., Ed.D., Columbia University

Department of Finance and Business Law

College of Business

Chairperson

David G. Heskel

Professors

Barbara E. Behr Bruce L. Rockwood Associate Professors

David G. Heskel Karen J. Elwell David G. Martin

W. Steven Smith

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in finance in the business administration degree program. Other majors include accounting, business administration-economics, finance, management, management information systems, and marketing.

Goals and Objectives

The major in finance provides a perspective of the finance environment such as the functioning of major stocks and bonds markets, the banking system, and international financial markets. It will provide students with educational opportunities that will prepare them to pursue careers in the domestic as well as international financial fields.

Required Courses

A total of 15 semester hours is required for a major in finance. Required courses include: Finance 96.323, 96.343, 96.454, and 6 semester hours from 96.333, 96.413, 96.423, 96.463, and 96.473.

Courses required for the degree program in business administration include: Economics 40.211, 40.212, 40.246 or 53.123, and 40.346, Mathematics 53.118; Accounting 91.220 and 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Courses designated with a 91, 92, 93, 96, 97, or 98 prefix are business courses and those with a 40 prefix are economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student must have the proper prerequisites and avoid choosing courses below the level for which the student has already been prepared in the subject field.

General Education Courses

English 20.101 and 20.201 are required as General Education courses.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

FINANCE (Code 96)

96.313 Business Finance

3 semester hours

Studies financial management in the areas of asset valuation, risk, working capital management, capital budgeting, cost of capital, financial structure, financing sources, and dividend policy.

Prerequisites: Accounting 91.220, Economics 40.211 and 40.212

96.323 Money, Capital Markets, and Financial Institutions

3 semester hours

Studies short-term money market and longterm capital market instruments, major financial institutions, the relationship between interest rates and security prices, and the role of the consumer and government in financial markets.

Prerequisite: 96.313

96.333 Commercial Bank Operations (Management)

3 semester hours

Covers fundamental principles of bank operations. Includes a survey of various bank functions such as accounting, trust department, international financial services, lending operations, public service, and liability management.

Prerequisite: 96.313

96.343 Investment Management

3 semester hours

Outlines principles of security investments: descriptions of investments instruments, investment planning, security valuation, portfolio theory and strategy, and security mar-

Prerequisite: 96.313

96.413 International Finance

3 semester hours

Studies the principles and practices relevant to understanding the nature of international finance, its problems, and its institutions. Discussion centers on sources and instru-

ments of international export and import financing, balance-of-payments, exchange rates, governmental regulations and policies. financial management, as well as accounting for international transactions.

Prerequisite: 96.313

96.423 Security Analysis and Portfolio Theory

3 semester hours

Detailed analysis of major elements related to determining the earnings and risk potential of securities and study of the underlying principles inherent to portfolio construction.

Prerequisite: 96.343

96.432 Internship in Finance

1-6 semester hours

Prerequisites: 96.313, Junior or Senior standing, and OPA of 2.50

96.454 Financial Management Decisions 3 semester hours

Studies business financial problems and the development of financial decision-making tools and practices as used in the decisionmaking role of the financial manager.

Prerequisite: 96.313

96.463 Seminar in Finance

3 semester hours

Explores a wide range of topics in finance, primarily focused in the area of financial management. Designed primarily for senior finance majors.

Prerequisites: 96.313 and 96.343

96.473 Seminar in Investments

3 semester hours

Examines a wide variety of topics in the field of investment management and portfolio theory. Designed primarily for Seniors majoring in finance.

Prerequisites: 96.313 and 96.343

BUSINESS LAW (Code 98)

98.331 Business Law I

3 semester hours

Introduces the nature and sources of law, the judicial system, principles of law applicable to business transactions including contracts, torts, sales, property, and criminal law.

98.332 Business Law II

3 semester hours

Presents basic principles of commercial law (UCC), agency, and such topics as debtor/creditor relations, business organizations, and ethics.

Prerequisite: 98.331

98.407 International Legal Environment of Business

3 semester hours

Introduction to public and private international law as applied to the increasingly globalized business environment. Cases include: trade law; extraterritorial application of U.S. law; treaty law; U.S.-Japan structural impediments talks; the GATT; the European Community: multinational corporations; and environmental regulation.

Prerequisite: 98.331 or consent of instructor

98.450 Legal Environment of Business 3 semester hours

Advanced coverage of topics in government regulation of business through administrative law, legislation, and judicial intervention. May include issues in the law of corporate securities, antitrust, environmental regulations, and other aspects of legal regulation of the competitive process.

Prerequisites: 98.331 and Economics 40.212

Faculty Credentials

BARBARA E. BEHR

A.B., Cornell University; M.A., Hunter College; J.D., Rutgers Law School

KAREN J. ELWELL

A.B., A.M., J.D., University of Illinois at Urbana-Champaign

DAVID G. HESKEL

M.B.A., Ph.D., University of Business, Vienna, Austria

DAVID G. MARTIN

B.A., C. W. Post College; M.B.A., Western Illinois University; Ph.D., University of Alabama

BRUCE L. ROCKWOOD

B.A., Swarthmore College; J.D., University of Chicago Law School

W. STEVEN SMITH

B.S., M.B.A., University of Georgia; M.A., The Ohio State University; Ph.D., University of Alabama

Department of Geography and Earth Science

College of Arts and Sciences

Chairperson

James R. Lauffer

Professors

Brian A. Johnson James R. Lauffer James T. Lorelli

Associate Professors

Mark A. Hornberger Joseph R. Pifer

Assistant Professors

Michael S. Devivo Sandra Kehoe-Forutan Karen M. Trifonoff

Degree Program

Bachelor of Arts in Geography

A total of 30 to 60 semester hours is required for a major in geography.

Goals and Objectives

The programs in Urban/Regional Planning and Environmental Planning are aimed at providing majors with a broad based background in the planning field that will qualify them to obtain entry-level positions in the public and private sectors or prepare them for entry into graduate programs in planning. These programs include the incorporation of interdisciplinary courses that are vital to this broad based preparation. In addition the academic program plays a major role in preparing the students for a required internship that provides practical experience in dealing with diverse planning activities. This internship further enhances the employment potential of the graduate.

Option I

Requires Geography 41.101 and 41.102 plus 24 additional semester hours in geography courses.

Option II - Emphasis on Urban and Regional Planning

Requires 21 semester hours in planning including: Geography 41.150, 41.350, 41.497, and 41.498; 15 semester hours from 41.101, 41.221, 41.258, 41.302, 41.310, 41.315, 41.363, and Earth Science/Geology 51.105; 19 semester hours from 41.242, 41.264, Interdisciplinary Studies 09.231, Speech Communication 25.103, Mathematics 53.141, Computer Science 56.110; Political Science 44.101 and 44.452 (for 6 semester hours); 3 semester hours from Economics 40.211, 40.212, 40.316, and 40.410; and 3 semester hours from Sociology 45.211, 45.213, 45.316, 45.457, and 45.468.

Option III - Emphasis on Environmental Planning

Requires 33 semester hours in planning including: 41.105, 41.150, 41.258, 41.301, 41.302, 41.350, 41.497, 41.498; 9 semester hours from 41.310, 41.315, Earth Science/Geology 51.105 and 51.370; 18 to 19 semester hours from 41.242, 41.264 or 51.320, Interdisciplinary Studies 09.231, Speech Communication 25.103, Political Science 44.452, Mathematics 53.141, and Computer Science 56.110.

Minor in Geography

The minor in geography constitutes 18 semester hours and must include the following courses 41.105, 41.258, 41.301, and 41.302.

GEOGRAPHY (Code 41)

41.101 World Physical Geography 3 semester hours

Studies Earth-sun relationships, land masses, oceans, landforms, weather and climate, and natural resources as elements and controls related to the adjustments humans make to their environment.

41.102 World Cultural Geography 3 semester hours

Demonstrates the relationship of humankind, land, culture, and economic activities.

41.105 Environmental Issues and Choices 3 semester hours

Examines contemporary environmental resource issues within a values, ethics, and decision-making framework.

41.125 Weather and Climate

3 semester hours

Studies the interrelationships between the elements of weather and climate; elaborates on the functional application of these elements through a study of climatic realms.

41.150 Elements of Planning

3 semester hours

Acquaints students with the philosophy of planning, the roles of the planner, and planning objectives.

41.200 Geography of United States and Canada

3 semester hours

Presents a spatial analysis of the United States and Canada emphasizing such concepts as environmental perception and sequent occupancy; considers salient problems within geographic regions in terms of genesis and potential for solution.

41.201 Geography of Europe

3 semester hours

Studies Europe's physical characteristics, to-

pography, transportation systems, resources, populations, and trade.

41.202 Geography of Latin America 3 semester hours

Examines Latin America as a major geographic region in terms of those economic, racial, and cultural forms that have provided regional unity and diversity.

41.221 Economic Geography

3 semester hours

Reviews major economic activities; focuses on significant characteristics, location theory, and spatial patterns.

41.242 Map Skills

3 semester hours

Uses a variety of published maps for interpreting and interrelating past and present physical and cultural phenomena with a view toward the future.

41.253 Landforms

3 semester hours

Studies dynamic, tectonic, and gradational forces which in conjunction with climate and biologic forces have shaped the Earth into its present form and continue to refashion and modify it.

41.256 Climatology

3 semester hours

Analyzes climate (temperature, moisture, pressure, wind, air masses, and storms) and the worldwide distribution of climates.

41.258 Environmental Conservation 3 semester hours

Identifies resource management and environmental problems and offers possible alternative solutions for these problems.

41.264 Applied Cartography

4 semester hours

Studies fundamental principles, use of graphic media, methods of construction, use and interpretation of maps, models, charts,

and diagrams, utilized in geography and in urban and regional planning.

41.281 Special Topics in Geography 41.289 3 semester hours

Presents areas of geographic interest to a general audience.

41.301 Water Resources Management 3 semester hours

An examination of contemporary water resource issues related to environmental planning and management.

41.302 Land Resources Management 3 semester hours

An examination of selected land-related issues and problems with the objective of identifying appropriate management techniques.

41.303 Biogeography and Soil Resources 4 semester hours

Examines biogeographical and edaphic phenomena and the ways in which humans have modified vegetative communities and soil cover; characteristics of soil and processes involved in their formation, and significance of soils to mankind. Emphasizes sound biotic and soil resource management strategies.

41.310 Population Geography

3 semester hours

Analyzes physical, human, and economic factors that influence the changing pattern of the political map of the world.

41.315 Outdoor Recreation Resources Management

3 semester hours

Explores the array of contemporary issues involving land, leisure, and recreational planning.

41.342 Geographic Information Systems 3 semester hours

Presents an introduction to computer-assisted analysis of geographic data. Emphasizes

GIS applications in management of natural resources, environmental assessment, and urban and regional planning. Laboratory projects provide opportunities to develop computer expertise.

41.350 Advanced Planning

3 semester hours

Presents the development of skills and techniques used in analysis, plan preparation, goal setting, and implementation of urban and regional planning processes and activities.

Prerequisite: 41.150 or consent of instructor

41.363 Urban Geography

3 semester hours

Provides a conceptual and methodological framework in which to view the process of urbanization.

41.475 Independent Study in Geography 1-3 semester hours

Provides independent, investigative research oriented to studies of specific geographical problems.

Prerequisite: Open to Juniors and Seniors majoring in geography.

41.497 Internship in Planning

12 semester hours

Involves the placement of a student who is enrolled in the course of study in urban/regional planning or environmental planning into a planning office for one semester, during which time the student is actively involved in the functions and activities of that planning office.

41.498 Planning Seminar

3 semester hours

Provides an opportunity for reporting and analyzing experiences in internship. Integrates and utilizes practice in the development of land use from an urban or environmental perspective. Taken in coordination with the internship in urban/regional planning (41.497).

Faculty Credentials

MICHAEL S. DEVIVO

B.A., Southern Connecticut State University; M.S., University of Tennessee

SANDRA KEHOE-FORUTAN

B.A., Queen's University; MCRP, The Ohio State University; Ph.D., The University of Queensland

MARK A. HORNBERGER

B.S., Bloomsburg State College; M.A., Southern Illinois University; Ph.D., The Pennsylvania State University

BRIAN A. JOHNSON

B.S., M.Ed., Indiana University of Pennsylvania; D.Ed., The Pennsylvania State University

JAMES R. LAUFFER

B.S., Allegheny College; M.S., University of Hawaii; Ph.D., University of Delaware

JAMES T. LORELLI

A.B., State University of New York at Binghamton; M.A., Syracuse University; Ph.D., Southern Illinois University

JOSEPH R. PIFER

B.S., Clarion State College; M.A., Arizona State University

KAREN M. TRIFONOFF

B.S., M.S., University of Akron

Department of Health, Physical Education, and Athletics

College of Arts and Sciences

Chairperson

Jerry K. Medlock

Professors

Jerry K. Medlock Roger B. Sanders William J. Sproule

Associate Professors

Charles W. Chronister Linda M. LeMura Ronald E. Puhl Burton T. Reese

Henry C. Turberville Jr.

Assistant Professors

Tamra Cash Mary T. Gardner Steve C. Goodwin Susan I. Hibbs Carl M. Hinkle Thomas F. Martucci Sharon L. O'Keefe David R. Rider Leon Szmedra

Instructors

Ellen J. Blemick Joe B. Hazzard Roch A. King Sheila A. Martucci

Degree Program

Bachelor of Science in Adult Health

A total of 35 to 41 semester hours is required for a major in adult health.

Goals and Objectives

The Department of Health, Physical Education, and Athletics serves the student community by providing academic credit to fulfill the university's General Education requirements. Credit is granted for participation in physical activities courses designed to be of lifelong benefit to the individual in the areas of fitness and recreation.

An interdisciplinary bachelor's degree program is available in adult health; an area of concentration is provided in elementary education. The department cooperates in several career concentrations including community recreation leader and outdoor leadership and program administration.

Students over 29 years of age must have medical clearance before participating in vigorous physical activity courses.

Required Courses

Required interdisciplinary courses are: Psychology 48.101; Sociology 45.211; Biology 50.173, 50.174, 50.205, 50.230 and 50.231; Philosophy 28.292; Health 05.298; 05.32105.411, 05.475, 05.477; and Management 93.344 or Biological and Allied Health Sciences 50.282.

Select one course from Health 05.250, 05.305, or 05.350

Select one course from Psychology 48.251, 48.311, 48.380 or 48.476

Select one course from Health 05.430, Philosophy 28.290 or Biology 50.254

Internship: 59.498-Natural Science and Mathematics.

A humanities minor in art, English, history, music, philosophy or theater, or a broad area cluster (24 semester hours) of selected courses at the 300 and 400 level, also is required.

HEALTH, PHYSICAL EDUCATION, and ATHLETICS (Code 05)

05.149 Aquatics

1 semester hour

Provides an opportunity for nonswimmers to make a proper physical and mental adjustment to water. Introduces basic skills as provided by the American Red Cross with specific emphasis on becoming safe in, on, or about a body of water.

05.150 Aquatics

1 semester hour

Contains same content as 05.149 but adapted for beginning skills.

05.151 Intermediate Aquatics

1 semester hour

Reviews basic aquatic skills; introduces advanced skills and swimming strokes with emphasis on form and efficiency, elementary rescue, and aquatic games.

05.155 Swimnastics

1 semester hour

Assists students to attain and maintain physical fitness through water activities.

05.160 Health and the Nature of Man 3 semester hours

Survey of a variety of health topics including human sexuality, mental health, substance abuse, fitness, nutrition, cancer, death, and dying.

05.200 CPR and Safety

1 semester hour

Designed for completion of Red Cross CPR certification and to develop a safety awareness expertise for accident prevention. Fee may be required.

05.214 Fencing

1 semester hour

Lecture aspect covers a study of the history of fencing, the weapons and equipment involved, rules of the sport, and safety procedures. Emphasis on learning and practicing the skills, and practice bouts; includes a tournament.

05.217 Bicycling

1 semester hour

An introductory course for novice cyclists who have access to a variable speed bicycle. Local touring is part of the course. Local bicycle rentals are available.

05.219 Tennis

1 semester hour

A beginning course that teaches basic stroke execution, strategy, and court etiquette.

05.221 Jazz Dance

1 semester hour

Develops fundamentals of jazz dance.

05,222 Creative Dance

1 semester hour

Develops the individual's capability for communication of thoughts, feelings and ideas through the medium of dance. Acquaints students with the basic elements of dance and guides them toward technique mastery with emphasis on expressive or creative movement.

05.224 Fitness Dance

1 semester hour

Attempts to provide a method of cardiovascular endurance in a particular interest area.

05.228 Gymnastics

1 semester hour

A co-ed introductory course that works primarily on floor exercise and includes instruction on a variety of apparatus including: the balance beam, pommel horse, parallel bars.

05.230 Weight Training and Fitness

1 semester hour

Develops knowledge and skill in and appreciation of weight training and conditioning programs.

05.231 Archery

1 semester hour

Course develops knowledge of, skill in, and

appreciation of target archery as a recreational requirement.

05.232 Bowling

1 semester hour

Students learn the mechanics of bowling in this beginner's course that meets off-campus. Students begin with appropriate ball selection, learn acceptable styles, practice proper etiquette, and bowl under the instructor's close supervision. Fee required.

05.233 Badminton

1 semester hour

Deals with the strokes, strategies, and game of badminton from a beginner's viewpoint. Also valuable to the intermediate player.

05.234 Golf

1 semester hour

An introductory course that develops basic skills. Rules, techniques, etiquette, and an emphasis on skill practice are stressed. Fee may be required.

05.235 Riflery

1 semester hour

Develops the skills, safety, understanding, and appreciation of riflery as a recreational pursuit.

05.236 Volleyball

1 semester hour

Develops the skills, understanding, and appreciation of volleyball as a recreational activity as well as a vigorous, competitive sport.

05.237 Modified Physical Education 1 semester hour

Independent and small group instruction for students who are unable to take part in other activities due to physical handicaps. Not offered on a regular basis.

05.238 Racquetball-Handball

1 semester hour

An introductory course that teaches history, etiquette, strokes, serves, and strategy in singles and doubles.

05.239 Square Dancing

1 semester hour

Develops skill in square and folk dances. Covers the sociological, physiological, and psychological values of square dancing. Students acquire a repertoire of western square dance moves and dance techniques.

05.240 Slimnastics and Fitness

1 semester hour

Develops an awareness and understanding of physical self and capabilities; teaches students how to improve their physical condition. Includes exercise and body mechanics.

05.241 Judo Self-Defense

1 semester hour

Provides a better understanding of the sport and a competency of judo and self-defense techniques. Should be used as an elective within the physical education service program requirements.

05.242 Physiological and Medical Aspects of Athletic Coaching

3 semester hours

Presents basic anatomical and physiological factors affecting movement, endurance, strength, and conditioning in sports; studies equipment, training, treatment of injuries, safety problems, and medical research relating to athletics.

05.243 Backpacking

1 semester hour

Reviews backpacking equipment and first aid procedures; includes how to select trails, menus, and cooking methods; teaches safety procedures; discusses how to adjust to the seasons, and how to protect the environment.

05.244 Orienteering

1 semester hour

Practical application of the knowledge and skills needed to satisfactorily follow a designated course through the wilderness with use of a watch, a compass, and a map.

05.245 Canoeing

1 semester hour

Offers instruction in the basics of canoeing, including skills that can be used recreationally in one's lifetime. Lake and river canoeing will be taught and experienced.

05.246 Beginning Skin and Scuba Diving 1 semester hour

Provides basic instruction in the use of snorkel, mask, fins, and scuba units and an understanding of the physics of diving with a great emphasis on safety.

05.247 Rock Climbing

1 semester hour

Provides rock climbing experiences for the beginning rock climbing enthusiast. Introduces basic knowledge, skills, and practical application of climbing. Serves as a foundation for further experiences in this area of recreation.

05.248 Basic Sailing

1 semester hour

A beginning course that includes terminology, maneuvering under normal and severe weather conditions, seamanship, boating, and safety. Swimming ability required.

05.249 Synchronized Swimming

1 semester hour

Provides background in fundamental skills, strokes, and movement progressions involved in developing a basic routine.

05.250 Lifeguarding

2 semester hours

Provides an opportunity to attain an American Red Cross Lifeguarding Certificate. CPR required (prerequisite or concurrent).

05.251 Techniques of Coaching and Officiating Baseball

3 semester hours

Classroom-laboratory provides an overview of baseball administration, organization, fundamental skills, drills, and techniques of umpiring.

05.252 Techniques of Coaching and Officiating Basketball

3 semester hours

Instruction in techniques of coaching, player-coach relationship, team strategy, program organization, and officiating.

05.253 Techniques of Coaching and Officiating Football

3 semester hours

Instruction in techniques of coaching, player-coach relationship, program organization and administration, and officiating.

05.254 Techniques of Coaching and Officiating Field Hockey

3 semester hours

Instruction in techniques of coaching and officiating all the phases of field hockey.

05.256 Techniques of Coaching and Officiating Cross Country, Track and Field

3 semester hours

Analysis of technique and the development of personal skills. Knowledge provided for development of a track program. Discusses rules, starting, officiating, scoring, and facility use.

05.257 Techniques of Coaching and Officiating Wrestling

3 semester hours

Gives prospective coaches an insight into problems and situations that may be encountered; prepares the individual to teach as well as coach wrestling.

05.260 Techniques of Coaching and Officiating Swimming

3 semester hours

Presents techniques of coaching, swimming, diving; covers rule interpretations and duties of officials.

05.265 Basketball

1 semester hour

Provides activity and instruction in the development of individual offensive and defensive fundamentals and their incorporation

into a team concept. Reviews basic strategy and current trends at all competition levels.

05.270 Exercise and You

2 semester hours

Studies appropriate physiological functions, exercise physiology, mechanical implications, and fitness measurement. Reviews procedures and practical application through programmed exercise. (3 contact hours)

05.271 Intermediate Archery

1 semester hour

Provides the opportunity for the student to develop shooting skills.

05.272 Intermediate Bowling

1 semester hour

Attempts to develop advanced skill and knowledge of bowling. Fee required.

05.273 Intermediate Golf

1 semester hour

Provides instruction in the techniques and strategy involved in improving the individual skills of the student. Fee may be required.

05.274 Intermediate Tennis

1 semester hour

Focuses on improving tennis skills.

05.275 Intermediate Volleyball

1 semester hour

Studies the development and history of volleyball. Attempts to improve fundamental skills, team play, and strategy through participation.

05.276 Intermediate Judo

1 semester hour

Provides an opportunity to develop higher levels of skill competencies in judo.

05.277 Advanced Sailing

1 semester hour

Intended for students who have sailing experience. Includes maneuvering, race tactics, sail tune, severe weather conditions, docking, and anchoring.

Prerequisites: Sailing and swimming ability

05.290 Special Topics

1-3 semester hours

Topics announced in the scheduling bulletin prior to each semester.

05.298 Fitness and Wellness

3 semester hours

Provides learners with the tools for lifelong healthful living. Personal health profiles, mental health, personal fitness programs, stress management, nutritional, and environmental health topics are explored. Successful completion of course fulfills one credit of the physical education requirement.

05.305 Aquatic Fitness Programming

2 semester hours

Develops fitness management leadership skills in an aquatic setting; covers physiological principles of exercise applied to swimming, and other water activities. No prior swimming experience necessary.

05.311 Methods, Materials in Elementary School Physical Education

3 semester hours

Provides principles and procedures to meet the needs and interests of elementary-age children in the area of physical education.

05.320 Health and Safety in the Elementary School

3 semester hours

Covers health knowledge, training, and health appraisal techniques for teaching elementary school health; the elementary school health program; and safety education in the elementary school.

05.321 First Aid Safety

3 semester hours

Provides training in first aid and safety. Red Cross standard, advanced, and cardiopulmonary resuscitation certifications may be earned.

05.330 Introduction to Coaching

3 semester hours

An overview of basic theories and coaching applications in sport philosophy, sport psy-

chology, sport pedagogy, first aid and sport management resulting in American Coaching Effectiveness Program Certificate.

05.331 Recreation Education

3 semester hours

Presents discussion of, and practice in, recreation activities used in school and play-ground situations. Emphasizes techniques of leadership, recreation planning, legal liability, and trends in recreation programming.

05.333 School Camping and Outdoor Education

3 semester hours

Acquaints students with the scope of organized camping and the acquisition of and practices in the basic skills required of individuals involved in camping and outdoor education training. Requires field experiences.

05.350 Water Safety Instructor 2 semester hours

Reviews the nine basic swimming strokes and advanced lifesaving skills; provides opportunity to analyze stroke mechanics, teaching methods, and provisions. An American Red Cross Water Safety Instructor Certificate is awarded after satisfactory completion.

Prerequisites: A valid American Red Cross Advanced Lifesaving Certificate; 17 years old prior to start of course, sound physical condition, and a Red Cross Swimmer's Certificate or ability to perform swimmer course skills.

05.397 Adult Health Development Program

3 semester hours

An intergenerational and multicultural health program that trains students to work one-on-one with older adults to promote health and well-being.

05.411 Adapted Physical Education

3 semester hours

Reviews the study and practice in techniques used by teachers to recognize and meet problems of persons with special needs.

05.420 Techniques in Health and Physical Education for Special Education Teachers

3 semester hours

Presents principles and procedures for meeting physical, emotional, and social needs of the mentally challenged.

05.430 Current Issues in Health Education

3 semester hours

Assesses major problems which concern communities today: drugs, sexually transmitted diseases, pollution, alcohol, and suicide.

05.476 Adult Exercise Programming

4 semester hours

Study of adult physiological functions under stress and the adjustment and regulatory activities of the body during exercise; development of a working knowledge of assessments, motor characteristics, and physical performance.

05.477 Methods and Materials in Adult Physical Education

3 semester hours

Emphasizes the academic and technical knowledge necessary to conduct health and fitness programs in public and private agencies. Students are prepared to assume leadership and management positions within the health and fitness industries.

Faculty Credentials

ELLEN BLAMICK

B.S., California University; M.S., West Virginia University

TAMRA L. CASH

B.S., Elon College; M.S. University of Tennessee; M.S., Eastern Kentucky University

CHARLES W. CHRONISTER

B.S., M.Ed., East Stroudsburg State College

MARY T. GARDNER

B.S., M.Ed., East Stroudsburg State College

STEPHEN C. GOODWIN

B.S., East Stroudsburg University; M.S., Ohio University; Ph.D., The Pennsylvania State University

IOE B. HAZZARD

B.S., Salem College; M.S., Shippensburg University

SUSAN J. HIBBS

B.S., Western Kentucky University; M.Ed., East Stroudsburg State College

CARL M. HINKLE

B.S., Montana State University; M.S., Ithaca College

ROCH A. KING

B.A., California State University at Fresno; M.S., Temple University

LINDA M. LEMURA

B.S., Niagara University; M.S., Ph.D., Syracuse University

SHEILA A. MARTUCCI

B.A., William Paterson College

THOMAS F. MARTUCCI

B.S., Trenton State College; M.A., University of North Carolina

IERRY K. MEDLOCK

A.B., Samford University; M.A., Ed.D., University of Alabama

SHARON L. O'KEEFE

B.S., Trenton State College; M.Ed., East Stroudsburg State College

RONALD E. PUHL

B.S., Lock Haven State College; M.S., West Chester State College

BURTON T. REESE

B.A., M.Ed., East Stroudsburg State College

DAVID R. RIDER

B.A., The University of Chicago; M.S., Indiana University of Pennsylvania

ROGER B. SANDERS

B.S., West Chester State College; M.A., Ball State University

WILLIAM J. SPROULE

A.B., Syracuse University; M.S., Brooklyn College; D.Ed., The Pennsylvania State University

LEON SZMEDRA

B.S., State University of New York at Brockport; M.A., University of Northern Colorado; Ph.D., Syracuse University

HENRY C. TURBERVILLE JR.

B.S., M.A., University of Alabama

Health Services

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Degree Program

Associate of Science in Health Services

Goals and Objectives

The programs in allied health sciences encompass those health areas in which individuals support, aid and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the Essentials. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

This advanced entry degree program is available to health workers who have obtained a clinical education from an accredited health agency and who desire additional education in communicative and interpersonal skills. Its initiation was encouraged by the fact that many certified health workers are now being strongly encouraged to continue their education in a collegiate setting. The role of the health worker has expanded to include greater responsibility in the hospital and nursing home setting as well as a more substantial commitment to improving community health. The program attracts medical laboratory technicians, licensed practical nurses, histologic technicians, and laboratory assistants, i.e., those workers who have satisfactorily completed the equivalent of one year's clinical education.

Most students in the program take courses on a part-time basis and require more than two years to complete the curriculum.

Candidates for the associate degree must have satisfactorily completed 22 semester hours of coursework, maintained a minimum QPA of 2.0, and have proof of satisfactory completion of a clinical program. Awarding of this associate degree is contingent upon the student being accepted for candidacy and completion of the program while maintaining good academic standing. Transfer credits from accredited institutions are accepted, but at least 15 semester hours must be taken at Bloomsburg University.

Required Courses

The following courses are required: English 20.101 and 20.201; Biological and Allied Health Sciences (for non-biology majors) 50.107, 50.173, 50.174, 50.205, 50.240, 50.282 (Special Topics: Health Care Leadership) or Management 93.346 or 93.445; Chemistry 52.101, 52.103; one course from Mathematics 53.101, 53.111, 53.113, 53.114, 53.118, 53.123, 53.141; Psychology 48.101, 48.210 or 48.211, 48.251, 48.311; Sociology 45.211; and Speech Communication 25.103; Computer Science 56.110.

Professional Clinical Courses

Proof of certification or licensure as a health worker—12 semester hours for this certification.

Department of History

College of Arts and Sciences

Chairperson

James R. Sperry

Professors

H. Benjamin Powell Theodore M. Shanoski Ralph Smiley James R. Sperry

George A. Turner

Associate Professors

Richard G. Anderson William Hudon Arthur W. Lysiak

Assistant Professors

Nancy Gentile Michael Hickey Walter Howard Jeanette Keith

Degree Program

Bachelor of Arts in History

A total of 33 semester hours is required for a major in history with at least 15 semester hours drawn from 300 and 400 level courses.

Goals and Objectives

The History Department fosters both broad based and specific objectives. Achievement of these goals enhances the university's academic climate and the department's professional effectiveness. The degree program prepares majors for the practical skills needed for employment as well as the knowledge and cultural understanding that is the mark of an informed citizen in a democratic society. The program also prepares students for graduate work and professional training, especially in the field of law.

Introductory history courses provide the basic factual information which places national and international events in their proper setting. Advanced courses develop interpretive and analytical abilities as well as those oral and written skills applied to historical inquiry and the day-to-day problem-solving situations confronted by the educated student. The ability to complete research and work independently on specialized research projects and the maturity associated with independent inquiry are essential ingredients of advanced study. Current political and social issues are handled within a flexible academic program which features traditional topical and/or time periods as well as issue-oriented courses which deal with current events. Diverse course offerings allow students the opportunity to study nations whose culture, values, and political goals differ from their own. The examination of earlier cultures, time periods, and emerging nations allow the student to place the evolution of civilization in a proper historical context.

Lastly, history is among the humanities. Like a great painting, a piece of music or a gorgeous sunset, history is viewed as something that enriches one's life and has an existence separate from the practical skills and professional preparation associated with the discipline.

Required Courses

Five history courses are required for the major: 42.112, 42.113, 42.121, 42.122, 42.398. It is strongly recommended that students take 42.398 Research and Writing Skills in their junior year.

One course, 3 semester hours, is selected from the following regional history courses: 42.141, 42.142, 42.143, 42.144.

One course, 3 semester hours, is selected from the following upper division courses in American history: 42.372, 42.379, 42.381, 42.383, 42.385.

One course, 3 semester hours, is selected from the following upper division courses in

early history: 42.315, 42.316, 42.318, 42.320, 42.324, 42.336, 42.337.

One course, 3 semester hours, is selected from the following upper division courses in European history: 42.319, 42.326, 42.327, 42.328, 42.452. See course descriptions under History, Code 42 listing, below.

Elective Courses

Two courses, 6 semester hours, are selected as electives from any of the 300 or 400 level history courses.

Minor in History

This program requires 18 semester hours of history courses with at least 6 semester hours in 300 or 400 level courses. The minor includes: 6 semester hours, any two 100 level history courses; 6 semester hours, any two 200 or 300 level history courses; 3 semester hours, any of the 300 or 400 level history courses; and 42.398 Research and Writing Skills.

The program for the history minor provides the following features: at least one directed exercise in independent historical research (42.398); a minimal background in those courses at the 100 level that are basic to and required of history majors; flexibility in framing a minor pertinent to the student's academic interest; and at least one course in addition to 42.398 at an advanced requirement level.

HISTORY (Code 42)

Prerequisites are subject to modification by the instructor.

42.100 Transatlantic World in the 20th Century

3 semester hours

Represents an analysis comparing and contrasting the experiences of Americans and Western Europeans since 1918. Focuses on the decay of Western traditions, the dilemma of the individual in an increasingly complex society, and the rise of "technocratic" civilization. Provides insight into roots of current events, promotes sense of historic awareness beyond the national level, and enhances appreciation of basic similarities and differences among Americans and Western Europeans.

42.112 Origins of the Modern World 3 semester hours

Describes the political, economic, social, intellectual military forces, and events that shaped the story of mankind from the early Renaissance to the early 19th century.

42.113 The Modern World

3 semester hours

Reviews the political, economic, social, intellectual, and technological elements of 19th and 20th century history, showing the progress of the Western tradition and the growing importance of the non-Western world.

42.121 United States History Survey: Colonial Period to 1877

3 semester hours

Presents a chronological history to 1877 with emphasis on foreign affairs and the evolution of political, economic, social, and cultural aspects.

42.122 United States History Survey: 1877 to the Present

3semester hours

Presents political, social, cultural, intellectual, economic, and foreign affairs developments of the United States from Reconstruction to the present.

42.133 The Ancient and Medieval Worlds 3 semester hours

Surveys from the Ancient Near East to the fall of the Roman Empire in the West, emphasizing Greece, Rome, and the rise of

Christianity; a study of the people and countries of the West that emerged after the fall of the Roman Empire, with emphasis on feudalism, manorialism, and the medieval church. Not offered every semester

42.141 The Modern Far East

3 semester hours

Focuses on modern China and Japan and closely studies the value system of these peoples as reflected in their politics, arts, and communications in the 19th and 20th centuries. Particular attention paid to the interaction between the old models provided by Confucianism and Buddhism with the models provided by the West during modernization. Not offered every semester.

42.142 Latin America: From European Colonization to the Present

3 semester hours

A concise introductory survey of Latin American history from 1492 to the present, stressing the significant economic and social factors in its evolution. Not offered every semester

42.143 **Black Africa

3 semester hours

Presents a survey of the transformation of the societies of Sub-Sahara Africa from colonialism to national independence.

42.144 Islamic and Hindu Worlds: Middle East, India, and Malaysia 3 semester hours

Introductory course that surveys the religious, cultural, economic, and political history of the Middle East, North Africa, the Indian subcontinent, the Malay Archipelago, and their bearing on contemporary Third World problems. Not offered every semester.

42.208 Contemporary Issues in U.S. History

3 semester hours

Examines selected issues of social, political, or foreign affairs within a historical context, describing the origin, evolution, current sig-

nificance, and importance in American society. The issues may vary each semester.

42.210 **Values in Conflict in 20th Century History

3 semester hours

Presents select American conflicts in the 1960s involving values of the individual and the civilization; resolutions achieved are reviewed and evaluated. The selection of conflicts varies each semester.

42.215 Global Issues in History: A Conflict of Values

3 semester hours

Introduces the historical and global nature of many of today's critical issues that have far reaching consequences. Population explosion, famine in the underdeveloped world, energy crisis, terrorism, and the spread of nuclear weapons are illustrative of some of the issues that will be examined. Attention will be given to defining values as related to these issues.

42.222 Business History of the United States

3 semester hours

Focuses on the evolution of business from 1600 to the present, entrepreneurial leadership of major businessmen and the history of major modern industries.

42.223 Economic History of the United States

3 semester hours

To understand the changing nature of the American economy, this course covers three time periods: the commercial-agricultural age, the industrial age, and the modern managerial age. Examines agriculture, banking, business administration, commerce, labor, manufacturing, mining and transportation, social and political factors that contributed to changing economic relationships in the United States.

42.224 The Immigrant Experience

3 semester hours

Surveys immigration to the United States

from colonial to present time, tracing the experience from conditions in native lands, through the transit to America, to settlement and attending problems during the earlier-years in the new country. Occasional case studies illustrate the experience. The sociohistorical framework of assimilation is used to describe separate eras of immigration. Not offered every semester.

42.226 Popular Culture in America 3 semester hours

Review of major forms of popular culture in America from colonial beginnings to the present, telescoped to permit fullest presentation of the period since 1920. Course blends continuity of values and ideas in American culture with dynamics of change to which the culture constantly adjusts. Not offered every semester.

42.227 **The American Woman: Accomplishments and Aspirations 3 semester hours

Studies the history of women in America from colonial times to the present; topics include women's work, family life, politics, sexuality, education, feminism and reactions against it, and the many facets of women's public and private roles in the nation's history.

42.228 **African-American History 3 semester hours

Examines the nature and meaning of the African-American experience in the United States surveyed from its beginnings to the present. Reviews black creative expressions in the visual arts, music, literature, philosophic thought, and social history.

42.229 Modern World Leaders

3 semester hours

Studies significant world leaders in religion, politics, war, and culture and their impact on world history. Focuses on different leaders each time offered and covers a selected period from the Renaissance to the present. Analyzes the conditions which helped produce these leaders and ends by discussing reasons

for their success or failure. Includes only leaders who have made a significant contribution outside their national boundaries.

42.246 Modern European Thought and Society

3 semester hours

Relates changes in currents of thought during the period to political, economic, and social developments. Special attention given to interpretations of major intellectual movements. Not offered every semester.

42.250 History of Science

3 semester hours

Studies historical development of the sciences and the nature of scientific thought and method; provides insight and understanding of the characteristics of the sciences as well as their significance to human progress from antiquity to the present. Not offered every semester.

42.255 Health Issues and Health Professionals in History

3 semester hours

Delineates major issues and personalities in rise of modern health care as well as ideas and attitudes prevalent in the histories of health professions. Compares and contrasts American, Western European, and Canadian health services. Explains relevance of cultural values for the theory and organization of health care. Not offered every semester.

42.260 Sport and Society in America 3 semester hours

Presents a cultural approach to organized sport in the United States; proceeds from the premise that sport mirrors the values, states of technology, and the conditions of society. Emphasizes the rise of the institution of sport and its impact on business, commercialism, leisure, affluence, urbanism, nationalism, and the problems of governance and law. Not offered every semester.

42.277 History of Christian Religion 3 semester hours

Surveys the ancient, medieval, and modern

roots of contemporary Christian denominations and movements and focuses upon key issues, personalities, and historical conditions in the development of Christian religion. Not offered every semester.

42.281 Military History I

3 semester hours

Studies organized warfare from its origins to the last campaign of Napoleon I, concentrating on strategy and tactics. Examines moral and social problems raised by warfare. Not offered every semester.

42.282 Military History II

3 semester hours

Studies organized warfare and the theory of war from the Napoleonic age to the present, concentrating on strategy and tactics. Examines the socio-political background, especially of the two world wars and the age of guerrilla warfare. Not offered every semester.

42.315 Origins of Civilization: The Ancient Near East

3 semester hours

Surveys known origins of civilization in the Neolithic, Bronze and Iron ages in Mesopotamia, Egypt, and Syria-Palestine, with some attention to India and China. Not offered every semester.

Prerequisite: 42.133, or consent of the instructor.

42.316 The Classical World: Ancient Greece and Rome

3 semester hours

Covers ancient Greek and Roman history and culture. Greece: emphasis on Aegean civilizations, the age of Pericles and the Hellenistic age after Alexander the Great. Rome: emphasis on early monarchy and republic, imperial expansion, the Pax Romana, and the decline and fall of the empire; concluding with the Barbarian age and the rise of Byzantium. Not offered every semester.

Prerequisite: 42.133, or consent of the instructor.

42.318 Early England: The Making of an Island State

3 semester hours

Reviews political, economic, social, and cultural life in England to the Glorious Revolution. Not offered every semester.

42.319 Modern England: The First Industrial Empire

3 semester hours

Examines political, social, economic, and cultural development in England from the Glorious Revolution to the present with emphasis on the development of democracy, the Industrial Revolution, and the growth and decline of the British Empire. Not offered every semester

42.320 French Revolution and Napoleon 3 semester hours

Analyzes 1789-1815 era in France and assesses its significance for the history of France and the world. Not offered every semester. Prerequisite: 42.112 or consent of the instructor.

42.324 Revolutionary Europe and the Rise of Modern Traditions, 1600-1789

3 semester hours

Discusses the rise of the modern state; the political, intellectual, social, economic, and cultural aspects of the eras of the Scientific Revolution and Enlightenment; the establishment of European world hegemony and a world economy; the diplomatic and military interaction of the European states. Not offered every semester.

42.326 Europe 1789-1914

3 semester hours

Studies political and military events within their economic, social, intellectual, religious, and artistic settings from the French Revolution through the Industrial Revolution. Examines the unification of Italy and Germany to the diplomatic crises that led to the first world war. Not offered every semester.

42.327 World War I and the Dictators 3 semester hours

Examines origins of World War I and alliance systems that fought it, diplomacy and military strategy and tactics of the war and the peace treaties of 1918-1920. The rise of Mussolini, Stalin, Hitler, and the lesser dictators along with the international crises that finally culminated in the outbreak of World War II. Course stresses idealogical and global patterns of which European events formed a part. Not offered every semester.

42.328 World War II and Its Aftermath 3 semester hours

Surveys European powers in the late 1930s with emphasis on the forces leading to war; military and diplomatic developments of World War II and the causes of the East-West rift; the reconstruction of democratic Europe and formation of the Soviet bloc; European integration and political trends in both power systems. Not offered every semester.

42.336 Medieval Europe

3 semester hours

An analysis of European history from 300 to 1400, focusing on political, social, religious, and intellectual trends during the period. Feudalism, church history, and commercial relations receive particular emphasis. Examines the status of women in medieval society. Prerequisite: 42.112

42.337 Europe in the Renaissance and Reformation

3 semester hours

A detailed analysis of European history from 1300 to 1650, focusing upon the intellectual and artistic movement known as the Renaissance and the religious upheaval associated with the terms "Reformation" and "Counterreformation." Political, social, intellectual, and religious trends are highlighted. Prerequisite: 42.112

42.347 History of the Holocaust

3 semester hours

Focuses upon the major theme-the genesis and implementation of the planned destruc-

tion of European Jewry from 1933 to 1945; briefly traces the history of anti-Semitism and evaluates scope of prejudice, discrimination, and genocide in contemporary civilization. Includes an analysis of literature of the Holocaust and evaluation of the Holocaust's impact on modern-day Israel and world Jewish community. Not offered every semester.

42.356 Russia to 1917

3 semester hours

Analysis of Russian political and social history from the ninth century to 1917, with emphasis on the 18th and 19th centuries. Not offered every semester.

42.372 Colonial America and the War of Independence

3 semester hours

Reviews European colonization in North America with major attention to the establishment and development of England's colonies, an emerging American society, and problems which created conflict between the Americans and the British resulting in the American War of Independence. Not offered every semester.

42.374 U.S. Social History

3 semester hours

Focuses on everyday life in the past and how ordinary people made history and were affected by historical change. Emphasis on family life, as a way of exploring issues of race, gender, and ethnicity.

Prerequisites: 42.121 and/or 42.122

42.379 The New Nation: United States, 1781-1845

3 semester hours

American life changed dramatically as the nation began its experiment with democracy. Course reviews the impact of the democratic experiment on government, the economy, culture, and society. Among subjects studied are political parties, railroads, popular music, and anti-slavery. Not offered every semester.

42.381 Civil War, Reconstruction and Industrialization: United States, 1845-1896

3 semester hours

During these years, the United States endured its most devastating war, rebuilt, and emerged as the world's leading industrial power. Surveys the causes of the Civil War, the war itself, reconstruction, and industrialization. Topics include politics, ideology, military technology and tactics, race and gender issues, the economy, labor, immigration, and popular culture.

Prerequisite: 42.121

42.383 Shaping of Contemporary America, 1896-1941

3 semester hours

During these years, the United States underwent major changes: imperialistic adventures, reluctant but expectant involvement in World War I, the "flaming '20s," and the nation's greatest depression. Out of these emerges the modern mass-centered welfare state. Not offered every semester.

42.385 Recent American History: 1941 to the Present

3 semester hours

Examines the major political, economic, social-cultural, and intellectual developments in the United States from 1941 to the present. Cold War, Korea and Vietnam, turmoil of the 1960s, nuclear concerns, and the role of the individual in an increasingly complex, technological society are some of the major themes examined. Not offered every semester.

42.388 Pennsylvania

3 semester hours

Examines major contributions of Pennsylvania to national life, relations between state and national movement. Not offered every semester.

42.391 Diplomatic History of the United States to 1898

3 semester hours

Presents a critical analysis of United States foreign relations from the Colonial Period to

the 1898 war with Spain. Not offered every semester.

42.392 Diplomatic History of the United States Since 1898

3 semester hours

Presents a critical analysis of United States foreign relations from the war with Spain in 1898 to present. Not offered every semester.

42.397 Independent Study in History

1-4 semester hours

The topic selected must be approved by a committee appointed by the chairperson. Independent reading and/or research related to some aspect of history is supervised by an appropriate member of the department. A student may register for this course no more than twice, and credits may not exceed 4 semester hours. See the section on *Independent Study* on page 10.

Prerequisite: 60 semester hours

42.398 Research and Writing Skills

3 semester hours

Focuses on the mechanics and processes of research and on the development of creativity and writing style through composition of a brief formal paper.

42.452 Soviet Russia

3 semester hours

Analysis of the 20th century Russian and Soviet political and social history, with emphasis on the relationship between state and society. Not offered every semester.

Prerequisite: 42.113

42.453 Problems of Contemporary Latin America

3 semester hours

Analyzes recent events or movements that may indicate recurrence of historical problems or major developments of international significance in selected countries of Latin America. Not offered every semester.

Prerequisite: 3 semester hours in history

42.460 Topics in European History 42.461 3 semester hours

Investigates select topics in European history. Seminar-style course studies variety of problems in European history, in the medieval, early-modern, and modern periods. Discusses and analyzes secondary materials on the history, philosophy, politics, science and art of a chosen period. Research paper required. Topics vary from semester to semester.

Prerequisites: 42.112 or 42.133

42.472 History of Labor in the United States

3 semester hours

Surveys the emergence and development of organized labor from the post-Civil War period to the present. A third of the course is an analysis of contemporary labor-management problems and labor's changing role in an increasingly technological society.

Prerequisite: 3 semester hours in history

42.497 Internship in History

3-12 semester hours

Provides a work-study experience jointly administered by an academic faculty member and a sponsoring employer, with about 40 hours of supervised work generating each semester hour.

Prerequisite: For history majors, 15 semester hours of history including 42.398. Other majors may enroll with consent of advisers.

Note: A student may not apply more than 3 semester hours of internship toward the fulfillment of the history major, although a student may enroll for more than 3 semester hours of 42.497.

**Indicates course approved as diversity-focused.

Faculty Credentials

RICHARD G. ANDERSON

B.A., Western Kentucky State College; M.A., Ph.D., Texas Christian University

NANCY GENTILE

B.A., M.A., Temple University

MICHAEL HICKEY

B.A., M.A., Ph.D., Northern Illinois University

WALTER HOWARD

B.A., M.A., University of West Florida; Ph.D., Florida State University

WILLIAM HUDON

B.A., Fordam University; M.A., Ph.D., University of Chicago

JEANETTE KEITH

B.A., Tennessee Technological University; Ph.D., Vanderbilt University

ARTHUR W. LYSIAK

B.S., M.A., Ph.D., Loyola University

H. BENJAMIN POWELL

A.B., Drew University; M.A., Ph.D., Lehigh University

THEODORE M. SHANOSKI

B.S., East Stroudsburg State College; M.A., Ohio University; Ed.D., Temple University

RALPH SMILEY

B.A., Brooklyn College; M.A., Ph.D., Rutgers University

JAMES R. SPERRY

B.A., Bridgewater College; M.A., Ph.D., University of Arizona

GEORGE A. TURNER

B.S., M.S., Eastern Illinois University

Interdisciplinary Studies

Interdisciplinary courses listed in this section are planned and often staffed by members of more than one department. The content of these courses subsequently spans two or more academic disciplines.

Broad Area Programs for Bachelor of Arts and Bachelor of Science

These programs offer opportunities for students to follow a less conventional curriculum according to their preferences. A student fulfills 54 semester hours of General Education requirements and then chooses to complete the prescribed core courses in the humanities, the social sciences, or the natural sciences and mathematics. He or she completes a total of 48 semester hours in the area of his or her core curriculum, with free electives sufficient to meet the 128 semester hour requirement for graduation. Students interested in the Broad Area Program should contact the program's adviser Roosevelt Newson in the College of Arts and Sciences.

Requirements for the Bachelor of Arts in the Humanities

20.302 Advanced Composition	3 semester hours
20.363 Shakespeare	3 semester hours
26.208 Introduction to Theater Arts	3 semester hours
25.321 Argumentation	3 semester hours
28.211 Introduction to Philosophy	3 semester hours
28.212 Logic	3 semester hours
Art history elective	3 semester hours
Music history/literature/theory	3 semester hours
History — choose two courses	6 semester hours
Languages and Cultures option:	3 semester hours

Choose from:

- •Intermediate foreign language course, 1 semester hour
- Foreign literature course (in original or translation), 1 semester hour
- Foreign culture and civilization course, 1 semester hour

Total Core	33 semester hours
Humanities electives	15 semester hours
Total Broad Area Humanities Requirements	48 semester hours

Requirements for the Bachelor of Arts in the Social Sciences

40.211 Principles of Economics I	3 semester hours
40.212 Principles of Economics II	3 semester hours
41.101 World Physical Geography	3 semester hours
41.102 World Cultural Geography	3 semester hours
44.101 Elements of Political Science	3 semester hours
44.161 U.S. Government	3 semester hours
45.211 Principles of Sociology	3 semester hours
Sociology elective	3 semester hours

46.101 Introduction to Anthropology or 46.200 Principles of Cultural Anthropology	3 semester hours
48.101 General Psychology	3 semester hours
Psychology elective	3 semester hours
Total Core	33 semester hours
Social Sciences electives	15 semester hours
Total Broad Area Social Sciences Requirements	48 semester hours
Requirements for the Bachelor of Arts in Natural Science	s and Mathematics
* 53.125 and 53.126 Analysis I and II	6 semester hours
53.175 Introduction to Computer Science	3 semester hours
** 54.211 and 54.212 General Physics I and II	8 semester hours
50.110 Biology of Animals, General Zoology	4 semester hours
50.120 Biology of Plants, General Botany	4 semester hours
52.115 Fundamentals of Inorganic Chemistry	4 semester hours
52.131 Fundamentals of Organic Chemistry	4 semester hours
51.101 Physical Geology	3 semester hours
51.111 Physical Geology Laboratory	1 semester hour
51.102 Historical Geology	3 semester hours
51.112 Historical Geology Laboratory	1 semester hour
Total Core	38-41 semester hours
Approved electives to complete	9-11 semester hours
Total Broad Area Natural Science and	50 semester hours
Mathematics Requirements	

*Subject to the discretion of the Department of Mathematics and Computer Science and the adviser, student will take 53.113 Pre-Calculus before 53.125 Analysis I.

**Or 54.111 and 54.112 Introductory Physics I and II, subject to the discretion of the instructor and the adviser, considering that 54.211 and 54.212 General Physics I and II have as prerequisites (or concurrent registration) 53.125 and 53.126 Analysis I and II, respectively, and are requirements for certain advanced courses in physics and chemistry.

Electives within the Broad Area requirements are to be chosen from a list compiled by the adviser for the program.

Harrisburg Internship Semester

During each semester of the academic year, Bloomsburg University selects an undergraduate student to participate in The Harrisburg Internship Semester Program (THIS), sponsored by the State System of Higher Education. Students selected are placed with policy makers in state government offices and agencies. Each THIS intern earns 15 semester hours: 9 semester hours for the internship program, 3 semester hours for a research project, and 3 semester hours for participating in an academic seminar.

To be eligible to apply a student must have maintained a 3.0 QPA in at least 45 semester hours. THIS interns are selected from all majors. Contact the Cooperative Education and Academic Internships Office in Ben Franklin Hall for application information.

INTERDISCIPLINARY STUDIES (Code 09)

09.100 University Seminar

1 semester hour

Promotes a successful transition to college life for new freshmen through the presentation of critical information about the university's academic program.

09.111 Introduction to the Peoples of the Third World

3 semester hours

Examines the peoples of the Far and Middle East, Africa, and Latin America; their art, literature, philosophy, cultural geography, and history, sketching their importance in the world.

09.211 History of Natural Scientific Thought

3 semester hours

Reviews the historical development of the natural sciences and mathematics, the nature of scientific and mathematical thought and methods, characteristics of these disciplines and their significance to human progress.

09.213 Science, Technology, and Human Values

3 semester hours

Compares the interaction of science and technology with human values. Studies past, present, and future technological developments and their impact on personal and social values.

09.231 Technical Writing

3 semester hours

Presents the principles of technical writing in the physical, natural, and social sciences and in technology and industry. Promotes effectiveness in communicating technical information to specialized and general audiences. Uses seminar approach involving class participation and individualized instruction.

09.311 Seminar in American Studies I 3 semester hours

Provides a thorough appreciation of our varied heritage and research materials and resources available for deepening the knowledge of this growing area of inquiry.

09.312 Seminar in American Studies II 3 semester hours

A continuation of 09.311.

09.401 History and Policies of USSR 3 semester hours

Combines the study of the history of the USSR with the approaches of political science. Usually offered during summer session. Involves students in a tour of areas of the USSR.

09.431 Socialism: Theory and History 3 semester hours

Provides an historical and theoretical study of the socialist idea and its various attempted realizations from biblical times to present.

09.487 THIS Internship Experience 9 semester hours

Internship provides outstanding students with enriching academic experience as an intern in the executive or legislative branches of state government or with state boards, agencies, or commissions.

09.488 THIS Research Project

3 semester hours

The student intern completes an individualized directed project involving substantial analysis and research. The project is related to the internship experience.

09.489 THIS Academic Seminar

3 semester hours

Student interns participate in a seminar coordinated by the resident director. The seminar is structured to integrate the student's work experience with a rigorous academic component and an exposure to multiple facets of state government.

09.491 Honors Independent Study in Humanities I

1-3 semester hours

An independent study course in which, under the guidance of a faculty mentor, the student completes the initial project(s) in the first stage of his/her proposed honors work.

09.492 Honors Seminar in the Humanities

3 semester hours

Allows for continued in-depth study of a particular research project of the student's choice and provides honor students the opportunity to discuss with peers and interested faculty concepts in the humanities related to the project and to the student's major field. Seminars organized around general themes selected by the humanities honors committee and announced in advance.

09.493 Honors Independent Study in the Humanities II

1-3 semester hours

Independent study in an area previously approved as part of the student's overall honors program.

09.495 Honors Seminar in the Natural Sciences and Mathematics

1 semester hour

Offers a cross-disciplinary perspective to students in the honors program with emphasis on student presentation and discussion of important topics in a student's area of expertise.

09.496 Honors Independent Study in the Social Sciences I

1-3 semester hours

Involves the student's selection of an honors adviser and project, initial exploratory reading, and a proposal for a major Honors Independent Study Project. Reserved for students who qualify for and wish to pursue an honors course of study in their last two years. Usually taken in the junior year.

09.497 Honors Seminar in the Social Sciences

3 semester hours

Allows for continued in-depth study of a particular research project and provides honor students the opportunity to discuss with peers and interested faculty concepts in the social sciences which relate to the research project and the student's major field. Focus of the seminar is interdisciplinary.

09.498 Honors Independent Study in Sciences II

3 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply theoretical and descriptive knowledge acquired in multiple humanities disciplines. Requires approval of the internship coordinator and the dean of Arts and Sciences.

47.498 Social Sciences Internship

1-9 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply theoretical and descriptive knowledge acquired in multiple social sciences disciplines. Requires approval of the internship coordinator and the dean of Arts and Sciences.

59.498 Natural Sciences and Mathematics Internship

1-9 semester hours

Internship provides on-site work experience and training program to give selected intern an opportunity to apply the theoretical and descriptive knowledge acquired in multiple natural sciences and mathematics disciplines. Requires approval of the internship coordinator and the dean of Arts and Sciences.

Department of Languages and Cultures

College of Arts and Sciences

Chairperson

Brenda Keiser

Professor

Brigitte L. Callay

Assistant Professors Gilbert Darbouze

Amarilis Hidalgo-Delesus

Luke Springman Jorge A. Topete

Brenda Keiser

Patricia Dorame

Instructors Jing Luo

Ramonita Marcano

Degree Programs

Bachelor of Arts in French, Bachelor of Arts in German, Bachelor of Arts in Spanish

A total of 36 semester hours is required for a major in French.

A total of 36 semester hours is required for a major in German. A total of 36 semester hours is required for a major in Spanish.

Students should inquire in the department about possible changes in requirements.

Goals and Objectives

The Department of Languages and Cultures offers language instruction in eight languages: Chinese, French, German, Italian, Japanese, Latin, Russian, and Spanish. A student interested in a teaching career may elect French or Spanish as an area of specialization leading to a Bachelor of Science in Education. Courses in culture, civilization, oral expression, literature, and phonetics are included in the area of concentration. Students wishing to combine proficiency in languages and cultures with another major may elect a minor in either French or Spanish, as well as basic and intermediate courses in the other languages offered. Area concentrations in French, German, and Spanish are offered for students in early childhood education, elementary education, and secondary education.

As part of the department's mission in general education, the languages and cultures curriculum serves to enhance the quality of the students' liberal arts education with an international and multicultural perspective. In addition to developing proficiency for communication with speakers of other languages, the program also offers courses in culture and civilization taught in English to support the goals of global/cultural awareness and international education.

Required Courses for Bachelor of Arts in French

Required courses are: 10.203, 10.204, 10.205, 10.206, 10.207, 10.211, 10.325 (for students pursuing teaching certification), 10.402, 10.422, 10.423, and English 20.311 or 20.411.

Elective Courses for Bachelor of Arts in French

Electives should be chosen from French courses numbered above 10.204 with advisement.

Required and Elective Courses for Bachelor of Arts in German

The bachelor's degree program in German is currently undergoing revision. Students should inquire in the department about new requirements.

Required Courses for Bachelor of Arts in Spanish

The following courses are required: Spanish 12.203, 12.204, 12.205, 12.206, 12.207, 12.211,

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12.214, 12.331, 12.325 (for students pursuing teaching certification), 12.402, 12.421, and English 20.311 or 20.411.

Elective Courses for Bachelor of Arts in Spanish

Electives should be chosen from Spanish courses numbered above 12.204 with advisement.

Required Courses for Bachelor of Arts in German

The bachelor's degree program in German is currently undergoing revision. Students should inquire in the department about new requirements.

General Education Courses

Other than the General Education distribution requirements, the department does not restrict the choice of courses in this area, however, students are encouraged to choose general education courses in consultation with their advisers.

Placement

Students who have studied a language elsewhere should consult the department chairperson for appropriate placement. Generally, the student should schedule courses as follows:

- With no previous language study, schedule special sections of FL (Foreign Language)
 101 for beginners, if schedule allows.
- With one year of high school study or equivalent, schedule FL 101.
- With two years of high school study or equivalent, schedule FL 102.
- With three years of high school study or equivalent, schedule FL 203.
- With four years of high school study or equivalent, schedule FL 204.

Individual Oral Practice

Tapes for language courses are available for individual practice in the language laboratory, located in Old Science Hall, Room 238.

Programs Abroad

All language students are urged to seek opportunities to study abroad. An exchange and internship program with the University of Nancy's Faculté des Lettres and the Commercial Institute in Nancy, France, brings French students to Bloomsburg University. It affords Bloomsburg University students in French, regardless of their major, to study at Nancy. French majors and/or business majors with a strong concentration in French, are especially encouraged to take part in this program.

On occasion, the department organizes a summer study-tour in France in conjunction with the Department of Art. Students also are encouraged to participate in other summer study abroad programs organized by the department and in accredited programs sponsored by other State System institutions and by other colleges and universities. The department chairperson should be consulted regarding study abroad plans.

Minors in French and Spanish

A minor is available in French and Spanish. Students should consult the chairperson. It is recommended that students who major and/or minor in French and Spanish also elect a curriculum in related fields such as a second foreign language, business, English, fine arts, history, philosophy, sociology, speech, and theater. A minor in German is planned.

Early Childhood Education, Elementary Education, Secondary Education

Students majoring in early childhood education and elementary education may elect an area of concentration in French, German or Spanish. Students should consult their advisers in the Department of Languages and Cultures about course selection. It is recommended that courses in culture and civilization, oral expression, literature, phonetics, and FL in elementary school be taken to complete the area of concentration.

The area of concentration for students in early childhood education and elementary education is under revision, and students should inquire about new requirements.

Requirements for a major leading to the Bachelor of Science in Education are found in the section on Secondary Education on page 176. Students in this program should also include a course in child psychology and a course in anthropology.

Language Awards

Outstanding Academic Achievement

This award is presented to any graduating senior who:

- a. has a minimum QPA of 3.8 for all courses in the major
 (A student majoring in more than one language may be considered for an award in each language.);
- b. has a minimum QPA in all work at the university of 3.5;
- c. is recommended by the majority of the faculty of the major language.

Chairperson's Award

This award is presented to a senior majoring in a foreign language who:

- a. has completed a minimum of 21 semester hours in the language;
- b. excels in the language;
- c. has rendered language-related service to the department and the university;
- d. is recommended by the majority of the faculty of the major language.

FRENCH (Code 10)

10.101 French I

3 semester hours

Seeks to develop the four language skills and acquaint students with elements of francophone culture. For students with no more than two years of French. Practice in the language laboratory required.

10.102 French II

3 semester hours

Continuation of 10.101.

Prerequisite: 10.101 or equivalent

10.203 French III

3 semester hours

Continuation of development of the four language skills. Emphasis on reading. Study of francophone culture. Practice in the language laboratory.

Prerequisite: 10.102 or equivalent

10.204 French IV

Fall 3 semester hours

Continuation of 10.203. Emphasis on culture and oral communication skills. Practice in the language laboratory.

Prerequisite: 10.203 or equivalent

10.205 Applied Phonetics and Pronunciation

3 semester hours

Analyzes French sound system. Drills on pronunciation and intonation. Selections of prose, poetry, and songs for imitation. Not offered every semester.

Prerequisite: 10.102 or equivalent

10.206 Structure of the French Language 3 semester hours

Thorough study of grammar and syntax and use of idioms through applied exercises. In-

troduction to French morphology. Not offered every semester.

Prerequisite: 10.204 or equivalent

10.207 Conversation: French Daily Life and Customs

3 semester hours

Prepared and free speaking activities about everyday life and customs in francophone countries. Not offered every semester.

Prerequisite: 10.204 or equivalent or concurrently with 10.204 with consent of the chairperson

10.211 Foundations of French Culture and Civilization

Fall 3 semester hours Reviews major developments of French culture from an historical point of view. Taught in English; knowledge of French unnecessary. Special projects for French majors.

10.212 France Today

3 semester hours

Presents major aspects of life in France today. Taught in English; knowledge of French unnecessary. Special projects for French majors. Not offered every semester.

10.281 Special Topics

10,289 1-3 semester hours Provides knowledge and training in fields usually not covered in regular courses. Content determined by instructor and varies each time course is offered. Topics may include French for travelers, French gastronomy, Quebec culture. Not offered every semester.

10.290 French Studies Abroad

1-6 semester hours

Prerequisite: Minimum 2 semesters of French or equivalent or consent of the chairperson.

10.295 Art and Culture of France

3 semester hours

Provides a study-tour of France with attention to French art as seen in relation to its social and cultural environment. Visits to places of artistic and cultural interest in and around Paris and the provinces. Not offered every semester.

Prerequisite: Consent of the instructor

10.309 Commercial French

3 semester hours

Acquisition of French business language and terminology in reading, writing, and speak-Includes cultural content of francophone culture. Provides an introduction to business correspondence. Not offered every semester.

Prerequisite: 10.204 or equivalent

10.325 French for Elementary School 3 semester hours

Methods and materials for teaching French in an elementary school including appropriate vocabulary, structures, and cultural items. Practical field experience in elementary school. Not offered every semester.

Prerequisite: 10.204 or equivalent or consent of the chairperson

10.331 Selected 20th Century Writers 3 semester hours

Students study French for reading and cultural knowledge; selected modern works. Prerequisite: 10.204 or equivalent

10.401 Advanced French Language 3 semester hours

Presents a thorough review of phonology, morphology, syntax, and semantics. Practical application in advanced speaking including activities with development of cultural proficiency. Not offered every semester. Prerequisite: 10.206 or consent of the chairperson

10.402 Contemporary Issues in Francophone Media

3 semester hours

Presents further development of language fluency through discussion of current topics and issues selected from francophone newspapers and magazines. Not offered every se-

Prerequisite: 10.207 or equivalent

10,409 Commercial French II

3 semester hours

Studies French business life aiming at preparing students for internships in business in France, Quebec or a branch of a French company in the U.S. Reviews business correspondence and cultural content. Not offered every semester.

Prerequisite: 10.309

10.422 Masterpieces of French Literature 3 semester hours

Studies the most significant writers and playwrights of France. Not offered every semester.

Prerequisite: 10.206 or consent of the chair-person

10.423 Black Francophone Writers and Culture

3 semester hours

Presents major aspects of life in Black francophone countries and major writers in those countries. Taught in French. Not offered every semester.

Prerequisite: 10.204 or consent of the chairperson

10.490 Independent Study in French

1-9 semester hours

Provides for individual study of a particular aspect of French civilization, language or literature under faculty supervision.

Prerequisites: Consent of the instructor and the chairperson

GERMAN (Code 11)

Requirements and curriculum are under revision. For current details, inquire in department.

11.101 German I

3 semester hours

Develops the four language skills and acquaints students with elements of German-speaking cultures. For students with no more than two years of German. Requires practice in the language laboratory.

11.102 German II

3 semester hours

Continuation of 11.101. Reading and writing given additional emphasis.

Prerequisite: 11.101 or equivalent

11.121 German Authors of the 20th Century I

3 semester hours

Examines works of major German authors such as Hesse, Brecht, Mann, Kafka, Durenmatt, and Boll. Taught in English; knowledge of German unnecessary. Readings in German and special projects for German majors. Not offered every semester.

11.122 German Authors of the 20th Century II

3 semester hours

Continuation of 11.121. Taught in English; knowledge of German unnecessary. Readings in German and special projects for German majors. Not offered every semester

11.203 German III

3 semester hours

Development of the four language skills. Basic grammar reviewed and new grammatical concepts presented. Reading and study of the culture given additional emphasis. Not offered every semester.

Prerequisite: 11.102 or equivalent

11.204 German IV

3 semester hours

Continuation of 11.203. Emphasizes culture and communication. Not offered every semester.

Prerequisite: 11.203 or equivalent

11.206 Grammar and Composition

3 semester hours

In-depth study of German grammar. Stresses application of grammatical principles in controlled and free written composition. Not offered every semester.

Prerequisite: 11.204 or equivalent

11.207 Conversation: Daily Life and Customs in German-Speaking Countries

3 semester hours

Emphasizes student participation in prepared and free-speaking activities on daily life in German-speaking cultures. Outside readings and oral reports assigned. Grammar reviewed when necessary. Not offered every semester. Prerequisite: 11.204 or equivalent or concurrently with 11.204 with consent of the chair-person

11.211 German Culture and Civilization I

3 semester hours

Provides an understanding of the geography, government, customs, education, arts, and history of the German-speaking countries, as well as a vivid sense of the current scenes in these countries. Taught in English; knowledge of German not required. Special projects for German majors. Not offered every semester.

11.212 German Culture and Civilization II

3 semester hours

Continuation of 11.211. Taught in English; knowledge of German not required. Not offered every semester.

11.290 German Studies Abroad

1-6 semester hours

Prerequisite: Minimum of two semesters of German or consent of the chairperson.

11.309 Commercial German

3 semester hours

Acquisition of German commercial language and terminology in reading, writing, and speaking. Background of business life in Germany today, in German culture and society. Not offered every semester.

Prerequisite: 11.206 or equivalent

11.331 Selected 20th Century Writers 3 semester hours

Current German writers for reading and cultural knowledge. Development of the four

skills continues. Not offered every semester. Prerequisite: 11.204 or equivalent

11.402 Contempoary Issues in German Media

3 semester hours

Further language development, especially of conversation, through discussion of current topics and issues selected from German language newspapers and magazines. Not offered every semester.

Prerequisite: 11.207 or equivalent

11.403 Workshop

11.503

3 semester hours

Presents selected materials for practical use. Offered on demand only.

Prerequisite: 11.206 or 11.207 or consent of the instructor

11.420 Seminar: Mass Culture and High Culture

3 semester hours

Readings and discussion of cultural issues from 1870 to 1933. Background in culture, society, and methods of cultural critique. Not offered every semester.

Prerequisite: 300 level German or consent of the instructor

11.490 Independent Study in German 1-9 semester hours

Provides for individual study of a particular aspect of German civilization, language, or literature under supervision of a faculty member.

Prerequisite: Consent of the instructor and the chairperson

Note: German curriculum is under revision. Additional courses will be available as approved. Please inquire in the Department of Languages and Cultures.

SPANISH (Code 12)

12.101 Spanish I

3 semester hours

Develops the four language skills; acquaints students with elements of Hispanic culture.

For students with no more than two years of Spanish. Requires practice in language lab.

12.102 Spanish II

3 semester hours

Continuation of 12.101. Reading and writing given additional emphasis.

Prerequisite: 12.101 or equivalent

12.203 Spanish III

3 semester hours

Continued development of skills and culture. Increased emphasis on reading and writing.

12.204 Spanish IV

3 semester hours

Continuation of 12,203

Prerequisite: 12.203 or equivalent

12.205 Phonetics: Theory and Practice 3 semester hours

Seeks to improve student's ability to communicate effectively in spoken Spanish. Provides a detailed study of Spanish sound and intonation patterns through group and individual practice. Attends to individual pronunciation problems. Not offered every semester.

Prerequisite: 12.102 or equivalent

12.206 Structure of the Spanish Language

3 semester hours

Study of Spanish grammar and syntax through applied exercises and introduction to Spanish morphology. Not offered every semester.

Prerequisite: 12.204 or equivalent

12.207 Conversation: Hispanic Daily Life and Customs

3 semester hours

Emphasizes student participation in prepared and free-speaking activities about everyday life and customs in Spanish-speaking countries. Not offered every semester.

Prerequisite: 12.204 or equivalent or concurrently with 12.204 with consent of the chairperson

12,208 Conversation for Health Professionals

3 semester hours

Emphasizes development of speaking and comprehension for communication with Spanish-speaking health care clients. For health services students and other interested persons. Not offered every semester.

Prerequisite: 12.204 or equivalent

12.211 Spanish Culture and Civilization Fall 3 semester hours

Provides an understanding of Spain through geography, education, customs, fine arts, and history. Taught in English; knowledge of Spanish not required. Special projects for Spanish majors.

12.212 Spanish-American Culture and Civilization

3 semester hours Spring

Provides an understanding and appreciation of the present and past life of the Spanish-American Republics. Studies Aztec, Maya, and Inca cultures using films and outside readings. Taught in English; knowledge of Spanish language not required.

12.214 The Hispanic World Today 3 semester hours

Provides an understanding and appreciation of the present Spanish-speaking world, in both Spain, Spanish-American countries, and Spanish-speaking groups in the U.S. through geography, history, economics, politics, education, customs, and fine arts. Taught in Spanish for Spanish majors and other interested people. Not offered every semester.

Prerequisite: 12.204 or consent of instructor

12.281 Special Topics

12,289 1-3 semester hours

Provides knowledge and training in fields not usually covered in regular courses. Content is determined by instructor and varies. Topics may include Spanish for Travelers and Women in Spanish Literature. Not offered every semester.

Prerequisite: Varies according to the nature of the topic

12.290 Spanish Studies Abroad

1-6 semester hours

Prerequisite: Minimum two semesters of Spanish or consent of the chairperson.

12.306 Structure and Composition 3 semester hours

Review of syntax and structure with application in composition. Not offered every semester

Prerequisite: 12.206 or consent of instructor

12.309 Commercial Spanish

3 semester hours

Acquaints students with basic skills in Spanish trade correspondence and commercial reading. Emphasizes vocabulary and commercial idioms. Stresses elementary knowledge of commercial life and methods. For business students and others who desire to enhance their knowledge of Spanish. Not offered every semester.

Prerequisite: 12.204 or an equivalent proficiency

12.325 Spanish for Elementary School 3 semester hours

Methods and materials for teaching Spanish in elementary school including appropriate vocabulary, structures, and cultural items. Not offered every semester.

Prerequisite: 12.204 or an equivalent proficiency

12.331 Selected 20th Century Writers 3 semester hours

Reading and discussion of selected modern works. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.402 Issues in the Hispanic Media 3 semester hours

Provides for further development of language fluency through discussion of a variety of topics and current issues in Hispanic media. Practice in advanced conversation emphasized. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.421 Hispanic Prose

3 semester hours

Reading and discussion of prose works by selected Spanish and Spanish American writers, concentrating on 20th century authors. Taught in Spanish. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.422 Hispanic Theater and Poetry 3 semester hours

Reading and discussion of plays and poetry by selected Spanish and Spanish American writers, concentrating on 20th century authors. Taught in Spanish. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.430 Short Story

3 semester hours

Acquaints students with the short story as an expression of culture by Spanish, Spanish American, Chicano, and Puerto Rican authors and sensitizes students to cultural values in the Hispanic world. Not offered every semester.

Prerequisite: 12.207 or an equivalent proficiency

12.490 Independent Study in Spanish 1-9 semester hours

Provides for individual study of a particular aspect of Hispanic civilization, language, or literature under the supervision of a faculty member.

Prerequisites: Consent of the instructor and the chairperson

RUSSIAN (Code 13)

13.101 Russian I

Fall 3 semester hours

Develops the four language skills and studies elements of Russian culture. Requires practice in the language laboratory. Also offered in spring on demand.

13.102 Russian II

Spring 3 semester hours Continuation of 13.101.

Prerequisite: 13.101 or equivalent

13,103 Russian III

3 semester hours

Continued development of four skills. Emphasis on reading and culture. Not offered every semester.

Prerequisite: 13.102

13.104 Russian IV

3 semester hours

Continuation of 13.103. Not offered every semester

Prerequisite: 13.103

13.290 Independent Study in Russian

Individual study of a particular aspect of Russian civilization, language, or literature under faculty supervision.

Prerequisite: Consent of the instructor and the chairperson.

ITALIAN (Code 14)

14.101 Italian I

3 semester hours

Develops the four language skills and studies the Italian culture. Stresses basic grammar. Not offered every semester.

14.102 Italian II

3 semester hours

Continuation of 14.101. Emphasizes reading and writing. Not offered every semester.

GENERAL (Code 16)

The sequence of courses in Japanese is not offered every semester. Students should inquire in the Department of Languages and Cultures.

16.101 Self-Instructional Learning Program in Japanese I 3 semester hours

16.102 Self-Instructional Learning
Program in Japanese II

3 semester hours

16.103 Self-Instructional Learning
Program in Japanese III
3 semester hours

16.104 Self-Instructional Learning
Program in Japanese IV
3 semester hours

16.105 Chinese I

Fall 3 semester hours

Basic elements of Mandarin Chinese, with emphasis on spoken language. Introduces the Chinese culture. Requires practice sessions in language lab.

16.106 Chinese II

Spring 3 semester hours Continuation of 16.105. Begin study of the Chinese characters. Requires practice sessions in language laboratory.

Prerequisite: 16.105 or equivalent

16.109 Language for Singing

1 semester hour

Practice and acquisition of correct pronunciation in French, German, and Italian for voice majors and students singing in choirs. Spanish upon demand. Not offered every semester.

16.211 Chinese Culture and Civilization I

Fall 3 semester hours

Chinese culture and civilization in historical perspective, with emphasis on art and philosophy. Taught in English.

16.212 Chinese Culture and Civilization II

Spring 3 semester hours Chinese culture and civilization today, with focus on art, political philosophy, customs, and new directions. Taught in English.

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16.400 Study Abroad

1-8 semester hours

By consent of the chairperson.

sizes correct classical pronunciation. Introduction to Roman culture and civilization. Not offered every semester.

LATIN (Code 18)

3 semester hours

Develops reading and writing skills; empha-

18.102 Latin II

3 semester hours

Continuation of 18.101. Develops reading and translation skills; teaches classical references through selected readings. Not offered every semester.

Prerequisite: 18.101 or equivalent

Faculty Credentials

18.101 Latin I

BRIGITTE L. CALLAY

B.A., M.A., University of Delaware; Ph.D., University of Louvain, Belgium

GILBERT DARBOUZE

B.A., M.A., City College of New York; Ph.D., Graduate School and University Center-CUNY

AMARILIS HIDALGO-DEJESUS

B.A., University of Puerto Rico; M.A., Temple University; Ph.D., University of Colorado

PATRICIA DORAME

Lic. in Spanish Lit., University of Veracruz, Mexico; Ph.D., University of Texas at Austin

BRENDA KEISER

B.A., Kutztown State College; M.A., Middlebury College; Ph.D., University of Pennsylvania

JING LUO

M.A., Beijing University, China; Ph.D., The Pennsylvania State University

RAMONITA MARCANO

B.A., M.A., Rutgers University

LUKE SPRINGMAN

B.A., Indiana University; M.A., Ph.D., Ohio State University

JORGE A. TOPETE

A.M., Ph.D., University of Pennsylvania

Department of Management

College of Business

Chairperson	
Mark D. Larson	Ŀ

Professors

M. Ruhul Amin Francis J. Gallagher Peter B. Venuto

Associate Professors

Mainuddin Afza Charles M. Chapman Howard J. Kinslinger Mark D. Larson Stephen J. Markell Irem Ozkarahan Minoo Tehrani Pamela M. Wynn

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in management under the business administration degree program. Majors also offered in accounting, business administration economics, finance, management information systems, and marketing.

Goals and Objectives

The curriculum in the Department of Management helps students develop analytical thinking and to apply those analytical abilities to business problem solving. To achieve these aims, faculty go beyond the confines of textbooks to the realities of the business world. Students gain a broad based understanding of the role, place, and purpose of business organization. The management major is especially appropriate for those who combine leadership abilities with an interest in business. The skills and knowledge gained by management majors enables them to suceed in a changing and competitive business environment.

Required Courses

A total of 15 semester hours is required from the following courses: Computer and Information Systems 92.254; Management 93.345, 93.449, and 93.457; and 3 semester hours of a business elective.

Required courses for the core curriculum of the business administration degree include: Economics 40.211, 40.212, 40.246 or Mathematics 53.123, 40.346; Mathematics 53.118; Accounting 91.220, 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

Elective Courses

Select courses in business and economics to complete a minimum of 63 semester hours. Courses designated with a 91, 92, 93, 96, 97, or 98 prefix are business courses and those with a prefix of 40 are economics courses. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 (a substitute for 42.224 and 40.423), 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

General Education Courses

English 20.101 and 20.201 are required as general education courses.

MANAGEMENT (Code 93)

93.344 Principles of Management

3 semester hours

Administrative, organizational, and behavioral theories and functions of management, contributing to the effective and efficient accomplishment of organizational objectives. Prerequisite: 40.212

93.345 Human Resource Management 3 semester hours

Provides an understanding of current corporate human resource practices. Discusses common human resource management problems, tools and procedures for dealing with such problems, EEO guidelines and their implications. Examines topics such as performance evaluation, human resource planning, compensation, and work motivation.

Prerequisites: Junior standing, Computer and Information Systems 92.150 or equivalent

93.346 Labor and Industrial Relations 3 semester hours

Describes administration of the relationship between management and the labor force, both where that relationship is governed by a collective bargaining agreement and where it is not. Includes development of the social and legal status of trade unions, organizing, negotiations, strikes, grievance procedure, and union security.

93.348 Operations Management 3 semester hours

Identification and integration of major components of operations and logistics management and their impact on organizational productivity and performance.

Prerequisites: 93.344, Economics 40.246 or Mathematics 53.123

93.432 Internship in Management

3-6 semester hours

Integrates classroom experience and practical work experience in industrial, business, or government work situations. Allows students to translate academic theories and principles into action, to test career interests, and to develop skills and abilities through carefully planned and supervised problems related to the field of management.

Prerequisites: 93.344 or approval of internship supervisor, QPA of 2.50, 80 semester hours

93.440 Small Business Institute Seminar 1-3 semester hours

Teams of students work with local businesses in a consultancy capacity to aid small businesses while applying business principles. Work includes analysis of a problem, determination of alternative solutions, recommendation of the optimum course of action by means of an oral presentation to business owners.

Prerequisite: 93.344 or consent of instructor

93.445 Managerial Communications 3 semester hours

Studies the process and structure of communication in the business organization and factors affecting the flow of information. Emphasizes verbal, nonverbal, and written communication, uses a number of models to understand miscommunication and conflict, and develops appropriate communication strategies. Provides insight into networking, groupthink, and lobbying in organizations. Prerequisites: 93.344, Marketing 97.310, and Junior standing

93.446 Business Policies and Strategies 3 semester hours

Provides a view of business problems from the perspective of the CEO. Strategic formulation and administration of the total organization including integrative analysis and strategic planning. Comprehensive case studies enabling students to deal with wide-ranging and complex issues are the primary tools by which integration is accomplished. This course is to be taken after all other business administration core requirements.

Prerequisites: 93.344, Finance 96.313, Marketing 97.310, and Senior standing

93.449 Organizational Behavior

3 semester hours

Focuses on personal, interpersonal, and group processes in organizations. Understanding human behavior as it is in organizations, finding the hidden aspects of groups and organizations, and leadership are among the major themes.

Prerequisite: 93.344

93.456 International Management

3 semester hours

Concepts and practices of multinational firms. Objectives, strategies, policies, and organiza-

tional structures for operating in various environments. Analysis of comparative management practices, problems, and issues. Impact of national and cultural environments.

93.457 Business and Society

3 semester hours

Relates the business system to the social, technological, political, and economic sectors. Examines the power and responsibilities of business as a major institution in the context of social responsiveness and ethics. Provides techniques and strategies for managing social issues.

Faculty Credentials

MAINUDDIN AFZA

B. Com., University of Rajshahi; M. Com., University of Rajshahi; M.B.A., Youngstown State University; Ph.D., National Academy of Science, Yerevan, Armenia

M. RUHUL AMIN

B.A., M.A., The University of Dhaka; M.A., D.P.A., Carleton University; M.A., Ph.D., The University of Akron

CHARLES M. CHAPMAN

B.A., University of Northern Colorado; M.A., New York University

FRANCIS J. GALLAGHER

A.B., Stonehill College; M.B.A., Temple University

HOWARD J. KINSLINGER

A.B., Brandeis University; M.B.A., The City College of New York; Ph.D., Purdue University

MARK D. LARSON

B.S., University of Iowa; M.A., Ph.D., The Ohio State University

STEPHEN J. MARKELL

B.A., SUNY at Albany; M.A., Ph.D., University of North Carolina at Chapel Hill

IREM OZKARAHAN

B.Sc., Middle East Technical University, Turkey; M.A.Sc., University of Toronto, Canada; Ph.D., Arizona State University

MINOO TEHRANI

Michigan Technological University; B.S., Pahlavi University, Shiraz, Iran; M.S., Ph.D., Arizona State University

PETER B. VENUTO

B.A., Syracuse University; M.B.A., Ph.D., University of Santa Clara

PAMELA M. WYNN

B.A., M.A., Ph.D., University of Texas at Arlington

Department of Computer and Information Systems College of Business

Chairperson James S. Dutt

Professor

Frank S. Davis Jr.

Associate Professors

Carl J. Chimi James S. Dutt Harold K. Frey Gene M. Gordon Charles I. Hoppel

Assistant Professors Patricia M. Boyne

Degree Program

Bachelor of Science in Business Administration

A total of 66 semester hours is required for a major in management information systems under the business administration degree program. Majors also are offered in accounting, business administration economics, finance, management, and marketing.

Goals and Objectives

The Department of Computer and Information Systems in the College of Business offers two degree tracks: the Bachelor of Business Administration with a major in Management Information Systems and the Bachelor of Science in Computer and Information Science. Both programs involve learning how to develop information systems for the business environment. They differ in emphasis. For information on the latter program, see Computer and Information Science on page 152.

The Management Information Systems (MIS) major provides both a broad background in business as well as an in-depth knowledge of the process of system analysis and design. Students gain a familiarity with the functions of management, accounting, marketing, and finance. Specialized courses focus on problem solving techniques, structured programming, systems analysis and design, and the process of developing managerial computer applications. The program stresses the importance of computer skills. Students learn a variety of programming languages and work on a number of different hardware platforms, including networked microcomputers, workstations, and multiuser minicomputers and mainframe systems.

The program prepares students for professional employment in the areas of system development and maintenance, information resource management, management of information systems, and end user computing support.

Admission

Students enrolled in other colleges within Bloomsburg University who wish to transfer into the MIS curriculum must have completed a minimum of 15 semester hours at the university.

Required Courses

A total of 24 semester hours in Computer and Information Systems courses is required for a major in MIS. Courses include: 92.177, 92.251, 92.252, 92.254, 92.256, 92.351, 92.352, and 92.456.

Core courses required for the degree program in business administration total 30 semester hours and include: Economics 40.211, 40.212, 40.246, and 40.346 or Mathematics 53.118; Accounting 91.220 and 91.223; Computer and Information Systems 92.150; Management 93.334, 93.445, and 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

Elective Courses

An additional 12 semester hours are required in business and economics courses. Courses designated with a 40, 91, 92, 93, 96, 97, or 98 prefix are eligible. Additional courses permitted as electives include: Speech Communication 25.307; History 42.223 and 42.472; and General Business 90.101, 90.241, 90.431, and 90.432.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

Free Elective Courses

An additional 8 to 11 semester hours in free elective courses are needed to meet the 128 semester hours required for graduation.

General Education Courses

English 20.101 and 20.201 are required as general education courses.

Internship

While an internship in MIS is not required for a degree, students are strongly encouraged to take 92.432. This course, which may be taken for a maximum of 6 semester hours, can be counted only as a free elective.

Faculty Credentials

PATRICIA M. BOYNE

B.A., Ladycliff College; M.S., The Pennsylvania State University; CDP

CARL CHIMI

B.A., M.B.A., Ph.D., University of Massachusetts

FRANK S. DAVIS

B.S., M.Ed., Shippensburg State College; Ph.D., University of Pittsburgh

JAMES S. DUTT

B.S., M.S., Ph.D., The Pennsylvania State University

HAROLD K. FREY

B.S., Lock Haven State College; M.A., State College of Iowa; M.S., Elmira College

GENE M. GORDON

B.A., Southampton College; M.A., Antioch University; Ed.D., University of Massachusetts

CHARLES J. HOPPEL

B.S., University of Scranton; M.E.E., Ph.D., Syracuse University

Department of Marketing

College of Business

Chairperson Stephen S. Batory Salim Qureshi Robert N. Watts Jr.

Associate Professors Stephen S. Batory Mary K. Ericksen Assistant Professors Robert S. Owen Julie Toner Schrader

Degree Program

Bachelor of Science in Business Administration

A total of 63 semester hours is required for a major in marketing under the business administration degree program. Majors also offered in accounting, business administration economics, finance, management information systems, and management.

Goals and Objectives

The marketing curriculum provides specialized knowledge and skills to prepare students for entry-level marketing positions in sales, sales management, retail management, promotion, research, distribution and other areas. These positions can be obtained in either the profit or non-profit sector. In addition, students are prepared for graduate study.

Required Courses

A total of 21 semester hours is required from the following courses in marketing: 97.360, 97.370, 97.430, 97.440, 97.460, 97.490, and 3 semester hours of a marketing elective.

Required courses for the core curriculum of the business administration degree include: Economics 40.211, 40.212, 40.246 or Mathematics 53.123, and 40.346; Mathematics 53.118; Accounting 91.220 or 91.221 (for accounting and computer and information science majors), 91.223; Computer and Information Systems 92.150; Management 93.344, 93.445, 93.446; Finance 96.313; Marketing 97.310; and Business Law 98.331.

Elective Courses

Select courses in business to complete a minimum of 63 semester hours. Elective courses in business may be drawn from courses designated with a 91, 92, 93, 96, 97, or 98 prefix. General Business 90.101, 90.341, and 90.432, and Business Law 98.332 and 98.450 also qualify as elective courses.

Note: 90.101 will not be allowed for credit as a business elective once a student has completed 6 semester hours in business administration courses.

In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

Free Electives

Select free elective courses as needed to meet the 128 semester hours required for graduation.

General Education Courses

English 20.101 and 20.201, and Speech Communication 25.103 are required as general education courses. No substitutions are permitted for the public speaking course.

MARKETING (Code 97)

97.310 Marketing: Principles and Practice

3 semester hours

Surveys the fundamental features of contemporary marketing systems and the planning required to make available satisfying goods and services to customers at a profit. Explains the role of marketing in society and the institutions which compose the market system. Describes components of the marketing mix-product planning, distribution, pricing, and promotion.

Prerequisite: Economics 40.211, 40.212

97.320 Marketing for Nonprofit Organizations

3 semester hours

Hospitals, social service agencies, universities, clubs, fraternities and sororities, political candidates, governments, churches, and libraries are some of the nonprofit organizations which are challenged to effectively solve their marketing problems. Through understanding and by applying established marketing theory, techniques, and methods, students realize how they can aid organizations in developing a better product, price, distribution, and promotion decisions for the publics they seek to serve.

Prerequisite: 97.310

97.350 Retail Management Concepts 3 semester hours

Presents retailing as a dynamic aspect of the marketing distribution system. Ultimate consumer/marketing analysis, store location, store layout, merchandising, pricing, promotional issues, and problems are considered. Prerequisites: 97.310, Economics 40.212

97.360 Advertising Management 3 semester hours

Studies the advertising element of the marketing/promotional program from a management perspective. Examines advertising's role in business and society. Advertising's use of the communication process is studied from a

theoretical and practitioner's perspective. Development of an ad campaign is highlighted with emphasis on management decisions involved in planning and execution. Special attention given to budgeting, copywriting, media analysis, and choice. Prerequisite: 97.310

97.370 Sales Management

3 semester hours

Studies the personal selling element of the marketing/promotional program from a management perspective. Recruiting, selecting, training, organizing, motivating, compensating, evaluating, and controlling the sales force are treated, as well as management's planning responsibilities which include designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management.

Prerequisite: 97.310

97.410 International Marketing Management

3 semester hours

Applies the managerial process to the development of international marketing programs. Emphasizes the development and determination of objectives and methods of organization including the execution of research, advertising, and distribution activities. Considers special problems of adopting marketing principles to fit conditions in different countries.

Prerequisite: 97.310

97.430 Consumer Motivation and Behavior

3 semester hours

Analyzes the role of the consumer as the ultimate buyer of the product and the strategy and forces directed at the consumer by the seller. Topics include models of consumer buying behavior, consumer motivation, impact of advertising on product, and consumer as decision maker in the market place.

Prerequisite: 97.310

97.432 Internship in Marketing

1 to 6 semester hours

Prerequisites: 97.310, 2.50 QPA, 80 semester hours, and Junior or Senior standing

97.440 Marketing Research

3 semester hours

Develops the skills of the scientific marketing research procedure (problem definition, research design, data collection, analysis, and interpretation). Applies recent developments in marketing information systems to product planning, advertising research, consumer and competitive analysis.

Prerequisites: 97.310 and Economics 40.346

97.460 Marketing Management

3 semester hours

Presents an advanced study of the marketing programs from the systems and managerial viewpoint. Applies analytic, communicative, and problem-solving skills to evaluation and creative planning in the marketing environment. Uses business marketing cases as a

vehicle for developing the marketing executive's abilities.

Prerequisite: 97.310

97.480 Industrial Marketing Strategy 3 semester hours

Strategies for marketing products and services to industrial, commercial, and governmental markets. Changing industry and marketing structures.

Prerequisite: 97.310

97.490 Contemporary Problems/Issues in Marketing

3 semester hours

Explores major issues, trends, and problems characterizing the current marketing scene. Encourages students to do extensive reading in current marketing and other related literature. Theoretical, environmental research, and trade-off issues in marketing are assessed. Case study, group projects, and group dynamics are used.

Prerequisites: Senior standing and 6 semester hours in marketing

Faculty Credentials

STEPHEN S. BATORY

B.S., King's College; M.B.A., Old Dominion University; D.B.A., University of Maryland

MARY K. ERICKSEN

B.S., M.S., The Ohio State University; Ph.D., Virginia Polytechnic Institute and State University

ROBERT S. OWENS

B.A., Park College; M.A., Central Michigan University; M.A., Ph.D., The Ohio State University

SALIM QURESHI

B.S., University of Karachi; M.B.A., Adelphi University; Ph.D., The Union Graduate School of Ohio

JULIE TONER SCHRADER

B.S., M.B.A., Central Missouri State University

ROBERT N. WATTS JR.

B.S., Susquehanna University; M.B.A., Ohio University

Department of Mass Communications

College of Arts and Sciences

Chairperson

Dana R. Ulloth

Associate Professors

Maria Teresita G. Mendoza-Enright

Professors

Walter M. Brasch Dana R. Ulloth Assistant Professor John Maittlen-Harris

Degree Program

Bachelor of Arts in Mass Communications

A total of 33 to 41 semester hours is required for a major in mass communications.

For information on the Bachelor of Science in Education which offers an area of specialization in communications/media, see the section on Secondary Education on page 176.

Goals and Objectives

The mass communications program is designed to balance the needs for broad knowledge of the liberal arts and natural sciences, professional preparation, and understanding of the critical and theoretical issues confronting people employed within the media. To achieve the first of these three goals, majors are expected to take at least 90 semester hours in the humanities and sciences. At least 87 semester hours must be outside the department spread widely among the other departments of the College of Arts and Sciences.

Courses within the department fulfill the second two goals by representing a balance of professional preparation (e.g., Newswriting, Broadcast Journalism, Public Relations Cases and Problems, practice and internships), and theoretical issues (e.g., Film History, Media Law, and Social Foundations of Mass Communications).

Most core courses focus attention on the social, political, and legal issues that reporters, producers, managers, and technical personnel must confront. The track courses provide the professional foundation needed to function in the fast paced media environment.

The internship experience in an appropriate off-campus site completes the professional training needed to enter the job market.

Admission Requirements

Admission to the mass communications program is by application to the chair and is limited to the maximum enrollment each semester that can be reasonably accommodated by departmental resources. Annual enrollment is limited to approximately 60 students who should have achieved a cumulative grade point average of 2.5 or higher. Acceptance into the program depends, however, not only on the QPA, but also on past experience and potential. Students should exhibit strong writing, visual, and creative qualities and a record of interest and participation in media-related extracurricular activities. Some variations also occur to help balance the number of students seeking entrance to each of the three major tracks available in mass communications. Students are, therefore, encouraged to make a case for their admission in the light of previous experience even if they feel their QPAs may not alone justify admission. Students will be notified of their acceptance as mass communications majors as quickly as possible. Students are expected to have declared their majors no later than the time they have accumulated approximately 72 semester hours.

The major in mass communications consists of a number of core courses, which are compulsory for all students and a series of sequence or major track courses, depending on the specialties students wish to study. The major consists of 15 semester hours in core subjects and a minimum of 15 to 21 hours in specialty sequence subjects. Requirements may vary in each

track, and students should ensure they are certain of the minimum requirements needed to graduate.

Students who wish to become mass communications majors must file a specific application with the department chairperson, submit with this application a copy of their latest transcripts, indicate which of the major sequences they propose to study, and present a portfolio of writing or production samples in one of the mass communications areas.

Note: This selection is not binding and may be changed. Students are advised to discuss the study tracks with their advisers to assure that course selections will count toward their final objectives.

Required Courses

Required courses in mass communications include: 27.230, 27.310, 27.315, 27.320, and 27.415, and either Mass Communications Technologies, a research course, or a statistics course selected from outside the department.

Major Tracks

Students also must select a major sequence track from one of the following: journalism, public relations/advertising, or telecommunications. Students may also take courses for a second sequence, and all mass communications majors are advised to study several courses in an area other than their major sequence.

The following sequence courses are required to make up the 15 to 21 semester hours required in addition to the 18 semester hours from the core sections. Students should note that sequence courses frequently have prerequisites and, therefore, they need to plan their studies to allow for these to be taken prior to enrollment in sequence courses. The departmental listing of courses indicates each prerequisite.

Journalism

27.334, 27.340, 27.435, 27.450, 27.446, and 27.497

Public Relations/Advertising

25.315, 27.251, 27.261, 27.340, 27.352, 27.366, 27.455, 27.466,

Art Studio 32.250, and Marketing 97.430

(Specific courses depend on student's emphasis in public relations or advertising.)

Telecommunications/Film

26.211, 27.371, 27.375, 27.388, 27.390, 27.482, 27.480, and Management 93.345 or 93.310

Practicums and Internships

Students are required to participate in practicums or internships during which they are expected to practice the technical aspects of their specialties. Semester hours earned are in addition to the core and specialty areas. Internships are available on and off campus; some are paid. Students are urged to take both an off-campus internship and an on-campus practicum to be as well prepared technically as possible. Some practicums are available on student productions such as *The Voice*, Bloom News, *Spectrum* magazine, and a range of other campus communications activities.

MASS COMMUNICATIONS (Code 27)

27.110 Mass Communications and the Popular Arts

3 semester hours

A comprehensive overview of mass communications and their relative impacts on society and culture. Covers magazines, newspapers, motion pictures, radio, television, public relations, advertising, ethical codes, and media regulations. Not generally applicable toward a major in mass communications.

27.190 History of Film

Spring 3 semester hours

An overview of the history and growth of the motion picture. Studies film genres, historical figures, technicians, and performers. Students must view approximately 15 films during the course in laboratory showings.

27.230 Newswriting

3 semester hours

Outlines the "theory" and techniques of news reporting; the historical development of reporting, its practices and principles, and the organizational patterns of news stories and gathering of news. An elementary outline of defamation and libel is included. Student should be able to type 30 to 40 words per minute before enrolling in this course.

27.251 PR: Theory and Practice

3 semester hours

An introduction to the development, principles, theories, and practice of public relations as a social and organizational implement. Looks briefly at the communication process, publicity, community relations, and public affairs practice.

27.261 Principles of Advertising

3 semester hours

Introduces students to the basic objectives and procedures of advertising in a modern economy. Examines the variety of components and methods used to achieve specific

objectives in advertising campaigns and the type of instruments used for advertising.

27.270 Contemporary Radio and Television

3 semester hours

Provides a survey of contemporary radio and television as an industry, an art, and a technology.

27.271 Media Operations

3 semester hours

Concentrates on the knowledge and physical use of technical requirements that operate the growing range of equipment needed to produce contemporary radio, television, and video programs.

27.285 Cinema Appreciation

Fall 3 semester hours

Examines film form, theory, and criticism to bring about a better understanding and greater appreciation of the motion picture. Enhances the visual appreciation required in modern media. Approximately 15 films viewed.

27.297 Mass Communications Practicum

3 semester hours

Requires participation in film, television, radio or print productions in any of the sequences offered in the department or other departments on campus having similar needs relevant to mass communications.

27.310 Media Law

3 semester hours

Surveys legal restraints that influence the nature and content of mass media messages and business practices. Covers historical developments, criminal libel, sedition, defamation, privacy, copyright, obscenity, shield law, freedom of information, free press-free trial, unique broadcast policies, advertising, and antitrust problems.

27.315 Social Foundations of Mass Communications

3 semester hours

An interdisciplinary study of the historical, philosophical, social, economic, and legal foundations of American mass media as a base for study of contemporary mass media. Examines media from the perspective of journalists, owners, audience, and govern-ment.

27.334 Editing

3 semester hours

Designed to improve writing for newspapers. magazines, and brochures. Indicates particular types of styles most used; emphasizes good, tight copy in news stories; offers practice in headline writing, and some elementary layout and design including photo editing. Suggests some defenses to possible defamation and libel problems for copy editors.

Prerequisite: 27,230

27.340 Feature Writing

3 semester hours

Outlines basic requirements for feature-type articles for newspapers and magazines. Studies various techniques used to gather information and to develop a range of feature articles. Includes practical work as well as the study and discussion of published articles and marketing strategies.

Prerequisite: 27.230

27.352 Publicity and Public Relations 3 semester hours

Comprehensive study of various publicity techniques used in public relations efforts of business, government, and nonprofit organizations. Students prepare press releases, public service announcements, speeches, slide programs, or other appropriate communication vehicles.

Prerequisite: 27.251

27.366 Design in Advertising

3 semester hours

Principles of advertising layout and design in print and broadcasting. Includes hands-on experience in layout, typography, and pasteup in addition to theory.

Prerequisite: 27.261

27.371 Broadcast Journalism

3 semester hours

Studies technical elements of broadcast writing, script formats, and nondramatic material; provides opportunities to study, write, and announce news, commercials, and other broadcast material.

Prerequisite: 27.271 and 27.230

27.375 Broadcast Programming and Management

3 semester hours

Studies television and radio management and programming; examines each medium as a business and the elements of success or failure. Studies some basic economics of media and methods of handling this material as well as codes, laws, and community interests. Prerequisite: Junior standing

27.388 Television Acting and Directing 3 semester hours

Provides instruction in acting and directing for television. Includes laboratory hours. Prerequisite: 27.271

27.390 Film and Video Production

3 semester hours

Reviews the basic processes of filmmaking in an introductory but comprehensive manner. Concentrates on making short silent films and requires laboratory hours and field work by arrangement. Students provide their own film stock for shooting, and pay film processing costs.

Prerequisite: 27.271

27.435 Journalism Seminar: Special Topics

3 semester hours

Studies a variety of ethical and practical problems in journalism. Topics may vary each semester. May be repeated with different topics to a maximum of three seminars with approvals of adviser and chairperson.

Prerequisite: 27.230

27.446 Magazine Editing and Production 4 semester hours

Acquaints students with principles and techniques of magazine production including manuscript selection and editing, advertising, design, production, circulation, promotion, and various business operations. Study of the nature of magazines as part of a mass communications system. Each semester students produce a community/regional consumer magazine.

Prerequisites: 27.334, 27.340, or consent of the instructor

27.450 Public Affairs Reporting 4 semester hours

An advanced reporting course on the role of public affairs in news reporting in mass media. Concentrates on a number of governmental "beats" most susceptible to news generation. Students learn basic abilities consistent with entry-level professional reporting requirements in public affairs coverage, including courts, police, and government. Prerequisite: 27,340

27.455 Public Relations Cases and

3 semester hours

A study of the use of publicity as a particular element of public relations. Examines specific publicity cases and requires practical hands-on production of written material. Prerequisite: 27.352

27.466 Advertising Media and Campaigns 3 semester hours

Study of the use of advertising media, methods of selection, and the skills and background required for media buying and traffic planning. Basic principles and applications of advertising research and campaign planning, preparation, and presentation are taught in a problem-solving format.

Prerequisites: 27.364 and 27.366

27.478 Independent Study

1-3 semester hours

Provides for individual work and study in an area of mass communications concentration.

Students find a faculty sponsor/adviser and prepare a written proposal, which must have departmental approval and approval of the dean, College of Aras and Sciences.

Prerequisite: 27.470

27.480 Telecommunications Production Workshop: Special Topics

3 semester hours

A practical workshop program in which telecommunications majors undertake specific instruction on the technical aspects of their major. Topics may change from semester to semester, and students may be required to work on specific projects, such as telethons or television news, as part of their workshop programs. Workshops may be repeated provided topics change. Instructor's and department chairperson's approvals required.

Prerequisite: 27.415

27.482 Telecommunications Seminar

3 semester hours

A seminar program that studies ethical and social problems resulting from the pervasiveness of new technologies. Topics may change from semester to semester. Students may repeat seminars, subject to a change in topic and with the approvals of the instructor and department chairperson.

Prerequisite: 27.415

27.485 RTF Authorship Theory and Practice

3 semester hours

A study of the construction of documentary and dramatic material in terms of telecommunications/film semiotics with an overall survey of production and business problems. A project course designed primarily for film, television, and radio majors moving into mass communications production seminars. Prerequisite: 27.271

27.497 Mass Communications Internship 3-9 semester hours

Open to junior and senior majors with a QPA of 2.75 in the major, although consideration will be given for other practical experience students may have. May include on-campus

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or off-campus study of a particular project arranged by the student, adviser, and department chairperson. Interns are expected to have completed several of their basic specialist courses prior to applying for internships. Projects must be submitted in writing at least a month before the project is expected to begin and must be approved by the student's adviser and department chairperson. Course may be repeated within catalog regulations. Internships will become a compulsory part of

the mass communications program. Credit is based on 3 semester hours for each 10 hours of work undertaken per week per semester. Limit is 9 total semester hours for internships. Special arrangements must be made for summer internships.

Prerequisite: 27.415

Note: Prerequisites may be waived by an instructor subject to the concurrence of the departmental chairperson.

Faculty Credentials

WALTER M. BRASCH

A.B., San Diego State University; M.A., Ball State University; Ph. D., Ohio University

MARIA TERESITA G. MENDOZA-ENRIGHT

B.A., M.A., University of the Philippines System; M.A., University of Chicago; Ph.D., University of Wisconsin-Madison

JOHN MAITTLEN-HARRIS

B.E., University of Sydney; B.L., University of New Enlgand; M.A., University of Florida; Ph.D., University of Texas at Austin

DANA R. ULLOTH

B.A., Southern Missionary College; A.M., Ph.D., University of Missouri

Mathematics and Computer Science

College of Arts and Sciences

Chairperson

Charles M. Brennan

Professors

Harold J. Bailey Stephen D. Beck Charles M. Brennan Paul C. Cochrane

JoAnne S. Growney Paul G. Hartung Reza Noubary James C. Pomfret Medhi Razzaghi John H. Riley Jr.

June L. Trudnak

Associate Professors

E. Dennis Huthnance Jr. Stephen Kokoska Clinton J. Oxenrider Erik Wynters

Assistant Professors

Helmut Doll
Anita Gleason
Scott Inch
Curt Jones
Zahira S. Khan
Timothy Phillips
Yixun Shi
Nancy Thornton

Degree Programs

Bachelor of Arts in Mathematics, Bachelor of Science in Mathematics The bachelor of arts program requires 45 semester hours for a major in mathematics. The bachelor of science program requires 56 semester hours for a major in mathematics.

Goals and Objectives

The primary objective of the mathematics program is to provide a thorough background in both the theoretical and real world applications of mathematics. The curriculum and instructional strategies are designed to encourage and promote critical thinking and problem solving skills and the articulation of mathematical ideas.

The Department of Mathematics and Computer Science offers three baccalaureate degree programs: Bachelor of Arts, Bachelor of Science in Mathematics, and Bachelor of Science in Computer Science (See section on Computer Science on page 156). The department also offers a minor in computer science, one in statistics, and another in mathematics.

The course sequence in all of the degree programs in mathematics is essentially the same through the first two years. The bachelor of arts program in mathematics offers a more flexible curriculum designed to accommodate varied career objectives while the bachelor of science program is specifically applications-oriented with more required courses in mathematical analysis and science. In the bachelor of science program, students select an area of concentration in their junior year to develop proficiency in an area of applied mathematics. Many students choose a joint program in mathematics and computer science, mathematics and statistics or mathematics and an area of business or physical sciences. A student majoring in education who chooses an area of concentration in mathematics essentially follows the bachelor of arts program in mathematics. The department strongly supports the implementation of mathematical and statistical software throughout all the mathematical programs Students who complete a degree program in mathematics are prepared to continue their studies of mathematics on the graduate level or to enter industry in an area where mathematics is used.

For admission to the major in mathematics, a student should have a thorough preparation in high school mathematics. Students who complete the Advanced Placement Examination with a score of 3 or higher may earn university credit for the first calculus course, 53.125 Analysis I.

General Education Courses

Advisement should be considered before selecting General Education courses in this major.

Required Courses for Bachelor of Arts in Mathematics

Mathematics 53.125, 53.126, 53.185, 53.225, 53.226, 53.241, 53.310, 53.314; at least two 3-semester-hours computer science courses numbered 56.122 or above, or 56.121; and at least one 3-semester-hours computer science course numbered 56.122 or above. At least three 3-semester-hours mathematics courses at the 300 level including at least one from the classical core consisting of 53.322, 53.331, 53.341, 53.360, 53.411, 53.421, 53.422, and 53.451. At least 6 semester hours in a discipline to which mathematics is traditionally applied (as approved by the adviser). Courses 53.311 and 56.305 may not be counted as requirements for the major.

Required Courses for Bachelor of Science in Mathematics

Mathematics 53.125, 53.126, 53.185, 53.225, 53.226, 53.241, 53.310, 53.314; Physics 54.211, 54.212; at least two 3-semester-hours computer science courses numbered 56.122 or above or 56.121; and at least one 3-semester-hours computer science course numbered 56.122 or above. At least three 3-semester-hours mathematics courses at the 300 level or above including one from the classical core (see above). A 9-semester-hours concentration in a special interest area within mathematics or in a related discipline; areas of concentration available upon request.

MATHEMATICS (Code 53)

53.101 Mathematical Thinking

3 semester hours

Presents mathematical topics and applications in a context designed to promote quantitative reasoning and the use of mathematics in solving problems and making decisions. Suitable for majors in humanities, education, and others seeking a broad view of mathematics. No background in algebra required.

53.111 Finite Mathematics

3 semester hours

Presents an introductory development of counting techniques, probability spaces, and game theory.

Prerequisite: two years of high school algebra or equivalent

53.112 Trigonometry

3 semester hours

Studies elementary algebraic functions and relations, exponential, and logarithmic functions, circular functions, and inverse functions, and their applications.

Prerequisites: 53.114 or two years of high school algebra or high school trigonometry or their equivalent

53.113 Pre-Calculus

3 semester hours

Studies elementary algebraic functions and relations, exponential, and logarithmic functions, circular functions and inverse functions, and their applications.

Prerequisites: 53.114 or two years of high school algebra or the equivalent. Not open to students with credit for 53.112

53.114 College Algebra

3 semester hours

Studies fundamental algebraic concepts and develops the mathematical and computation skills necessary to apply algebraic techniques to problems in business, economics, the social and natural sciences, and the liberal arts. Prerequisites: 1 1/2 years of high school algebra or the equivalent. Not open to students with credit for 53.112 or higher

53.118 Applied Matrix Algebra

3 semester hours

Introduces vectors, matrices, linear equations, and linear programming with applications to the social and biological sciences and business.

Prerequisite: two years of high school algebra or equivalent

53.123 Essentials of Calculus

3 semester hours

Presents the basic concepts of elementary calculus in a nonrigorous approach for students who are not mathematics majors. Pertinent topics in the real number system, analytic geometry, functions, and limits prepare the student for the study of the basic techniques of differentiation and integration. Course is not for chemistry, mathematics or physics majors.

Prerequisite: At least two years of high school algebra

53.124 Essentials of Calculus II

3 semester hours

Techniques and applications of integration with an introduction to infinite series and elementary differential equations as a continuation of 53.123. Course is not for mathematics, chemistry, or physics majors.

Prerequisite: 53.123

53.125 Analysis I

3 semester hours

Designed to meet part of the major-level mathematics requirement; first in the sequence of four calculus courses. Provides the basic tools for differentiation and the beginnings of integration for functions of a single variable.

Prerequisite: four years of high school mathematics including a year of elementary functions or equivalent of 53.113

53.126 Analysis II

3 semester hours

Studies techniques of integration, functions, infinite series, Taylor's theorem, some special differential equations, and polar coordinates

Prerequisite: 53.125

53.141 Introduction to Statistics

3 semester hours

Presents the concepts necessary to use and understand basic statistical techniques. Topics include: descriptive statistics, probability, random variables, sampling distributions, hypothesis tests, confidence intervals, and

analysis of variance.

Prerequisite: High school algebra

53.185 Discrete Mathematics

3 semester hours

An introduction to set theory, logic, combinatorics, and graph theory for those interested in mathematics or computer science. Not usually taken in first semester of freshman year.

Prerequisite: 53.125 or consent of instructor

53.201 Theory of Arithmetic

3 semester hours

Presents the language of sets, the four elementary operations through the real number system, and the elementary theory of numbers. Course is primarily for majors in elementary education, special education or communication disorders.

Prerequisite: Sophomore status or above

53.202 Geometry and LOGO for Elementary Teachers

3 semester hours

Presents the content of geometry for the elementary curriculum using geometric models, inductive reasoning, and the LOGO computer language. Course is primarily for majors in elementary education, special education or communication disorders.

Prerequisite: Sophomore status or above

53.225 Analysis III

3 semester hours

Presents infinite sequences and series, power series, Taylor and Maclaurin series, three dimensional vector analysis, and partial derivatives.

Prerequisite: 53.126

53.226 Analysis IV

3 semester hours

Presents an introduction to the differentiation and integration of real valued functions of several variables. Presents curves and parametric equations, surfaces, Taylor's, Stoke's, and Green's theorems, functions between Euclidean spaces, and multiple integrals. Prerequisite: 53.225

53.231 College Geometry

3 semester hours

Presents elementary geometry from an advanced standpoint. Discusses incidence in the plane and in space, congruence, inequality, and similarity concepts. Studies properties of circles, polygons, and spheres.

Prerequisite: High school geometry, 53.185

53.241 Probability and Statistics 3 semester hours

Calculus-based study of probability and statistics. Topics covered include: descriptive statistics, proability, discrete and continuous random variables, common distributions, sampling destributions, estimation procedures, and inferential statistics. A more rigorous course than 53.141.

Prerequisites: 53.126 (or concurrent) and 53.185

53.243 Nonparametrics Statistics

3 semester hours

Presents standard nonparametric statistical procedures. After a brief review of hypothesis testing fundamentals, topics such as goodness-of-fit tests, one and two-sample procedures for location parameter, tests of randomness, and association analysis are covered.

Prerequisites: 53.123 or 53.125 and 53.141 or the equivalent

53.310 Introduction to Abstract Algebra 3 semester hours

Provides an introduction to the language and methods of abstract mathematics. Subjects include sets, relations, rings, functions, groups, and fields.

Prerequisites: 53.185 and 53.225

53.311 Algebra for Secondary School Teachers

Fall/odd-numbered years

3 semester hours

Presents topics of elementary algebra from an advanced viewpoint. Considers topics of contemporary school mathematics pro-

grams. Intended for students in secondary education majoring in mathematics. Prerequisite: 53.310

53.314 Linear Algebra

3 semester hours

Studies abstract vector spaces, linear transformation, matrices, determinants, inner product spaces, and related topics.
Prerequisites: 53.185 and 53.225

53.322 Differential Equations

3 semester hours

Studies elementary ordinary differential equations, infinite series and power series solution, some numerical methods of solution, and LaPlace transforms.

Prerequisite: 53.225

53.331 Modern Geometry Spring/even-numbered years

3 semester hours

Presents non-Euclidean geometrics and their development from postulate systems and a formal approach to projective geometry.

Prerequisite: 53.231

53.341 Statistical Methods

Fall 3 semester hours

Presents common statistical techniques with emphasis on applications. Topics include: confidence intervals, hypothesis test, regression analysis, and analysis of variance. Strongly encourages use of statistical software, especially SAS.

Prerequisite: 53.141 or 53.241 or consent of the instructor

53.342 Design and Analysis of Experiments

Spring 3 semester hours Basic experimental statistics including med

Basic experimental statistics including methods of estimation and hypothesis testing, analysis-of-variance procedures, principles of experimental design, completely randomized and randomized complete block designs, factorial arrangements of treatments, linear regression and correlation analysis, covariance analysis and distribution-free methods.

Prerequisite: 53.141 or 53.241 or consent of the instructor

53.343 Applied Regression Analysis Fall 3 semester hours

A basic course in multiple linear regression methods including weighted least squares, stepwise regression, residual analysis, and applications to mathematical models. Treats problems which involve the use of computing equipment.

Prerequisite: 53.141 or 53.241 or consent of the instructor

53.360 Number Theory

3 semester hours

Presents the theory of numbers. Includes the topics of Euclidean algorithm, congruences, continued fractions, Gaussian integers, and Diophantine equations.

Prerequisites: 53.185 and 53.225

53.361 Coding and Signal Processing Fall 3 semester hours

A mathematical approach to codes and ciphers. Includes security codes, coding for efficiency in computer storage, error-correcting codes. Signal processing, including the Fourier transform and digital filters. Individual projects required.

Prerequisites: 53.126 and 56.210 or 56.122

53.373 Numerical Methods in Computing Fall 3 semester hours

Analysis and application of various methods of numerically solving problems in the areas of nonlinear equations; systems of equations, interpolation, and polynomial approximation; numerical integration; approximation theory; and differential equations. Students design and execute algorithms on the computer for specific numerical procedures.

Prerequisite: 56.210, Mathematics 53.126

53.374 Introduction to Discrete Systems Simulation

Spring/odd-numbered years

3 semester hours

Studies the ways that systems can be moduled for computer solution. Emphasizes stochastic behavior by discrete random processes and the simulation tools for their solution.

Prerequisites: One course each in calculus, programming, and statistics

53.381 Introduction to Operations Research

Fall/odd-numbered years

3 semester hours

A survey of the methods and models used in applying mathematics to problems of business. Topics drawn from decision making, linear, and dynamic programming, networks, inventory models, Markov processes, and queuing theory.

Prerequisites: 53.118 and 53.123 or 53.225

53.411 Introduction to Group Theory Alternate years 3 semester hours

Study of theorems and applications of group theory begun in abstract algebra continued. Prerequisite: 53.310

53.421 Advanced Calculus Fall/even-numbered years

3 semester hours

Presents a rigorous treatment of the concepts of limit, continuity, derivative, and integral for functions of a single real variable.

Prerequisites: 53.226, consent of instructor

53.422 Complex Variables Fall/odd-numbered years

3 semester hours

Presents a rigorous treatment of the complex numbers and theory of functions of a complex variable, limits, continuity, analytic functions, Cauchy-Riemann equations, contour integrals, conformal mappings, and applications.

Prerequisites: 53.226, consent of instructor

53.451 Introduction to Topology 3 semester hours

Introduces fundamentals of general topology; elementary set theory, topological spaces, mappings, connectedness, compactness, completeness, product and metric spaces; nets and convergence.

Prerequisites: 53.226, consent of instructor

53.461 Probability Models and Applications

Spring 3 semester hours An introduction to elementary stochastic processes and their applications to various phenomena in engineering, management science, the physical and social sciences, and operations research.

Prerequisite: 53.241

53.462 Introduction to Mathematical Statistics

3 semester hours

An introductory study of mathematical statistics including distributions of functions of random variables, interval estimation, statistical hypotheses, analysis of variance, and the multivariate normal distribution.

Prerequisite: 53.241

53.471 Numerical Analysis Spring/even numbered years

3 semester hours

Provides a computer-oriented analysis of algorithms of numerical analysis. Includes the topics of non-linear equations, interpolation and approximation, differentiation and integration, matrices and differential equations. Prerequisite: 53.322 and 53.373

53.472 Matrix Computation Spring/odd numbered years

3 semester hours

Presents a computer-oriented analysis of matrices. Includes Gaussian reduction, LDU

factorization, special reduction techniques for tridiagonal matrices, iterative methods, and a study of the matrix eigenvalue problem. Prerequisites: 53.225 and 53.373

53.491 Special Topics in Mathematics 3 semester hours

Presents an area of mathematics which is not available as a regular course offering.

Prerequisite: Consent of the instructor

53.492 Independent Study in Mathematics 1-3 semester hours

Provides for directed study of a particular area of mathematics as mutually agreed upon by the student and the instructor. Emphasizes individual scholarly activity of the highly motivated student.

53.493 Honors in Independent Study in Mathematics

3 semester hours

For students who have demonstrated a high level of interest and ability in mathematics and have mastered the required course work. Students investigate research problems selected under the supervision of a faculty member of the Department of Mathematics and Computer Science.

Prerequisite: Admission to the Honors Program in natural sciences and mathematics

Faculty Credentials

HAROLD J. BAILEY

B.S., Albright College; M.Ed., Ph.D., The Pennsylvania State University

STEPHEN D. BECK

B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer Polytechnic Institute

CHARLES M. BRENNAN

B.S.Ed., Bloomsburg State College; M.A., Montclair State College; Ph.D., The Pennsylvania State University

PAUL C. COCHRANE

B.S., M.S., Ph.D., State University of New York

HELMUT DOLL

B.A., University of Stuttgart; M.S., Oregon State University; Ph.D., University of California

ANITA GLEASON

B.S., M.S., Ph.D., New Mexico Institute of Mining and Technology

IOANNE S. GROWNEY

B.S., Westminster College; M.A., Temple University; Ph.D., University of Oklahoma

PAUL G. HARTUNG

B.A., Montclair State College; M.A., University of Colorado; Ph.D., The Pennsylvania State University

E. DENNIS HUTHNANCE JR.

B.S., M.S., Ph.D., Georgia Institute of Technology

SCOTT INCH

A.A., Williamsport Area Community College; B.S., Bloomsburg University; M.S., Ph.D., Virginia Tech

CURT JONES

B.S., Lock Haven; M.S., University of Iowa; Ph.D., The Pennsylvania State University

ZAHIRA S. KHAN

B.A., Punjab University; M.Sc., Islamabad University; B.S., Bloomsburg University; M.A., Temple University

STEPHEN KOKOSKA

B.A., Boston College; M.S., Ph.D., University of New Hampshire

REZA NOUBARY

B.S., M.S., Tehran University, M.Sc., Ph.D., University of Manchester, England

CLINTON J. OXENRIDER

B.S., Bloomsburg State College; M.A., The Pennsylvania State University; D.A., Idaho State University

TIMOTHY PHILLIPS

B.A., Kutztown University; M.S., Longwood College; Ph.D., The Pennsylvania State University

JAMES C. POMFRET

B.S., Bates College; M.S., New Mexico State University; Ph.D., University of Oklahoma

MEHDI RAZZAGHI

G.C.E., Lewes Technical College; B.S., Sussex University; Ph.D., University of London

JOHN H. RILEY JR.

B.A., Lehigh University; M.S., Ph.D., The University of Connecticut

YIXUN SHI

B.S., Anhui Normal University at Chuzhon, China; M.S., Shanghai Teachers University, China; Ph.D., University of Iowa

NANCY THORNTON

B.A., College of St. Catherine; M.S., Washington University; Ph.D., Arizona State University

IUNE L. TRUDNAK

B.S., Bloomsburg State College; M.S., Bucknell University; Ph.D., The Pennsylvania State University

Medical Technology

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Advisers

Judith P. Downing, professor, Department of Biological and Allied Health Sciences Judith A. Kipe-Nolt, assistant professor, Department of Biological and Allied Health Sciences James E. Parsons, associate professor, Department of Biological and Allied Health Sciences

Degree Program

Bachelor of Science

 $Ninety-six\ semester\ hours\ and\ 32\ clinical\ hours\ are\ required\ for\ a\ major\ in\ medical\ technology.$

Goals and Objectives

The programs in allied health sciences encompass those health areas in which individuals support, aid, and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. Programs in this area combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs may enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the Essentials. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

The medical technology program consists of a minimum of 96 semester hours of coursework prescribed by the university, followed by one calendar year of clinical education in a medical technology program accredited nationally by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association (AMA) through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Students enrolling in the curriculum leading to the Bachelor of Science will be admitted under the same policy governing other applicants to Bloomsburg University. These requirements may be found under the section on Admission beginning on page 30 and Readmission on page 34. Assistance with the admission application to the clinical year phase is offered by the university, but admission to that phase, as well as fees, is determined solely by the institution where the clinical work is done. The university cannot guarantee that a student will be accepted for the clinical education portion of the program. In general, students with the highest academic achievement, who interview well, and have a history of volunteer work are given priority.

Students who successfully complete all of the requirements and the clinical year earn a Bachelor of Science degree. All clinical year graduates become eligible to take the two certification examinations for medical technologists. Upon successfully completing one or both of these examinations, the student is awarded a certificate of registry and the designation Medical Technologist (M.T.) (ASCP) or Clinical Laboratory Scientists (C.L.S.) (NCA).

A student who fails to gain admission to a clinical program at the end of the junior year (3+1 program) or wishes to complete a degree prior to entering the clinical experience may remain at the university and complete the requirements for a baccalaureate degree. Ordinarily, a student can complete the degree requirements for a Bachelor of Arts in biology in one

additional year; other curricula may demand more time. Many students in the medical technology program select an option in microbiology. This option is detailed in the section on *Biology* on page 130.

Professional Education Courses

Biological and Allied Health Sciences 50.107, 50.110 or 50.120, 50.242, 50.271, 50.342, 50.343, 50.233 or 50.332, 50.371 or 50.472; Chemistry 52.115, 52.131, 52.216 and 52.341 or 52.216 and 52.232; Physics 54.107; Mathematics 53.141; and Computer Science 56.110.

Clinical Experience

A total of 32 semester hours must be earned from the Code 86 listing of courses in medical technology (see below) that are given at the clinical site.

Elective Courses

Students must select additional courses to complete the minimum program requirement of 96 semester hours. The following courses are recommended as electives: Biological and Allied Health Sciences 50.282, 50.364, 50.442, 50.455, 50.471, and 50.483.

MEDICAL TECHNOLOGY (Code 86)

86.401 Clinical Microbiology

6-10 semester hours

A lecture and laboratory study of bacteria, fungi, parasites, and viruses which cause disease in humans, their clinical pathology, and related diagnostic laboratory procedures.

86.402 Clinical Hematomology/ Coagulation

6-10 semester hours

A lecture and laboratory study of hematopoiesis and blood coagulation. Students acquire an understanding of the theory of hematological tests, skills in the performance of these tests, knowledge of blood disorders, and insight into the significance of test results.

86.403 Clinical Chemistry for Medical Technologists

6-10 semester hours

Lecture and laboratory study of enzymes, carbohydrates, lipids, proteins, nitrogenous end products, electrolytes, acid-base balance, body fluids, toxicology, endocrinology, and urinalysis. Lecture series includes anatomy, physiology, methods of analysis, and clinical significance of each biochemical determination. Laboratory study includes standardiza-

tion and quality control of procedures using spectrophotometry, chromatography, electrophoresis, and automated techniques.

86.404 Clinical Immunohematology

3-6 semester hours

Lecture and laboratory study of blood groups, genetics, antigens, and antibodies and their interaction as related to safe transfusion, prediction of immune incompatibilities, and probability of parentage. Donor collection, processing, blood component preparation, and therapy also studied.

86.405 Clinical Immunology/Serology

2-4 semester hours

Lecture and laboratory study of immunological concepts and theory and their relation to serologic reactions and clinical interpretations.

86.406 Clinical Seminar

1-6 semester hours

Covers courses not included above, such as orientation, laboratory management, education, clinical microscopy and/or areas unique to the individual hospital program.

Adjunct Faculty

Abington Memorial Hospital, Abington, Pa. Paul J. Cherney, M.D.

Medical Adviser
Barbara I. Scheelie, M.T. (ASCP)

Program Director

The Bryn Mawr Hospital, Bryn Mawr, Pa. Albert Keshgagian, M.D., Ph.D Medical Adviser

Nancy M.G. Calder, M.Ed., M.T. (ASCP)

Program Director

The Chester County Hospital West Chester, Pa. E.A. Bentley, M.D. Medical Adviser

Christine Ford, M.T. (ASCP)

Program Director

Divine Providence Hospital, Williamsport, Pa. Galal M. Ahmed, M.D. Medical Adviser Loretta A. Moffatt, M.T. (ASCP) Program Director

Geisinger Medical Center, Danville, Pa. John J. Moran, M.D. Medical Adviser

Alvin Swartzentruber, M.T. (ASCP)

Program Director

Harrisburg Hospital, Harrisburg, Pa. Him G. Kwee, M.D. Medical Adviser Judith Clark, M.T. (ASCP) Program Director

Lancaster General Hospital, Lancaster, Pa. Gerald R. Fahs, M.D. Medical Adviser Nadine F. Gladfelter, M.T. (ASCP)

Nadine E. Gladfelter, M.T. (ASCP) Program Director

Nazareth Hospital, Philadelphia, Pa. William J. Warren, M.D. Medical Adviser

Diane P. Bejsiuk, M.Ed., M.T. (ASCP) Program Director

Polyclinic Medical Center of Harrisburg Harrisburg, Pa. Julian W. Potok, D.O. Medical Adviser Janice Fogelman, M.Ed., M.T. (ASCP) Program Director The Reading Hospital and Medical Center Reading, Pa.

1. Donald Stuard, M.D. Medical Adviser

Program Director

Program Director

Sharon K. Strauss, M.T., (ASCP), CLS (NCA) Program Director

Robert Packer Hospital, Sayre, Pa. Joseph J. King, M.D. Medical Adviser Brian D. Spezialetti, M.S., M.T. (ASCP),

Medical College Hospital, Elkins Park, Pa. Vivan Anagnoste, M.D. Medical Adviser Phyllis Gotkin, Ph.D., M.T. (ASCP)

Sacred Heart Hospital, Allentown, Pa.
Francis V. Kostelnik, M.D.
Medical Adviser
Sandra Neiman, M.T. (ASCP), C.L.S. (NCA)
Program Director

St. Joseph Hospital, Reading, Pa. Jasper G. Chen See, M.D.

Medical Adviser
Kirk Ohlinger, M.T. (ASCP)

Program Director

Scranton, Medical Technology Consortium
Scranton, Pa.

Thomas V. DiSilvo, M.D.

Medical Adviser

Mary Gene Butler, M.S., M.T. (ASCP), *Program Director*

University of Virginia Medical Center Charlottesville, Va. M.R. Wills, M.D. Medical Adviser

Cheryl V. Leitch, M.T. (ASCP), S.H. (ASCP), Program Director

Wilkes-Barre Hospital, Wilkes-Barre, Pa. C. Warren Koehl Jr., M.D. Medical Adviser Helen M. Ruane, M.T. (ASCP) Program Director

York Hospital, York, Pa. John P. Whiteley, M.D., Medical Adviser Brenda L. Kile, M.A., M.T. (ASCP), Program Director

Aerospace Studies/Air Force ROTC

School of Extended Programs

Coadjutant Instructors in Aerospace Studies

Lt. Col. David A. Agee, chairperson

Capt. Steven S. Manley

Capt. L. Douglas Werder

Bloomsburg University participates with Wilkes University in a cross-enrollment program which allows students to earn commissions as officers in the U.S. Air Force while pursuing a university degree. Courses are taught on the Wilkes University campus in Wilkes-Barre, Pennsylvania, about a one-hour drive from Bloomsburg.

The Air Force Reserve Officer Training Corps (AFROTC) program provides both a fouryear and two-year program. The first two years of the four-year program are called the General Military Course (GMC). The last two years of the four-year program are the same as the twoyear program and are called the Professional Officer Course (POC). Students may enroll in either the two or four-year program to earn commissions.

GMC courses are open to any university student. However, students may apply for acceptance into the POC, usually in their sophomore year. To enter the POC, students must pass a physical examination, an officer qualification test, meet certain academic standards, and complete a four-week (or six-week, if enrolled in the two-year program) field training encampment, normally prior to their junior year. Applicants for the two-year program must start the application process as early as possible in their sophomore year.

All AFROTC cadets are eligible to compete for one, two or three-year Air Force scholarships generally valued from \$2,000 to \$8,000 a year. All POC cadets are eligible to apply for at least a \$2,000 per year scholarship, regardless of academic major.

Uniforms, equipment, and textbooks for the AFROTC work are supplied by Wilkes University and the U.S. Air Force. Students in the POC receive a \$100 per month allowance.

Students who successfully complete the POC are commissioned as second lieutenants in the U.S. Air Force and will serve on active duty in a career speciality they have chosen, consistent with USAF needs. Qualified students may compete for duty as pilots, navigators, nurses, engineers, missile or space operations, meteorologists, computer analysts, lawyers, security police or other career areas.

Four semester hours of credit may be earned in the GMC, 12 semester hours in the POC, and up to six in the field training program.

The field training required before entry into the POC is held at several operational bases each summer. Cadets have an opportunity to observe Air Force units and people at work and at home; participate in markmanship, survival, athletics, and leadership training activities; experience orientation flights; and work with contemporaries from other colleges and universities. Transportation to and from the legal residence of the cadet to the field training base, food, lodging, medical, and dental care are provided by the Air Force. The cadet receives approximately \$400 for the four-week field training program or \$600 for the six-week program.

The optional Advanced Training Program allows POC members to visit a USAF base for two weeks during ther summer between the cadet's junior and senior years and to work with an active duty officer in the student's chosen career area. The pariticipating cadet is provided a weekly salary during the program.

For information, call the Aerospace Studies Department at Wilkes University at 1-800-WILKES-U, ext. 4860/4861 or write P.O. Box 111, Wilkes-Barre, PA 18766. For registration information, contact the Bloomsburg University Registrar's Office.

AEROSPACE STUDIES (Code 61)

General Military Courses

The general military courses (GMC) constitute a two-year program for freshmen and sophomores and are designed to provide general knowledge of the role, organization, missions, and historical development of U.S. Air Power. Students enrolled in the GMC, who are not on Air Force scholarships, incur no military obligations.

61.110 Air Force Today I

1 semester hour

Presents background, missions, and functions of U.S. military forces with emphasis on U.S. Air Force organization, doctrine, and strategic forces. Develops individual communication skills.

61.120 Air Force Today II

1 semester hour

Reviews U.S. general purpose military forces, insurgency and counter-insurgency, aerospace support forces, and organizations. Develops individual communication skills.

61.151 Leadership Laboratory

O semester hours

Involves a progression of experience designed to develop each student's leadership potential in a supervised training laboratory. Examines Air Force customs and courtesies, drill and ceremonies, career opportunities, and life and work of an Air Force junior officer.

61.210 The Development of Air Power I 1 semester hour

Reviews air power development in historical perspective through the end of World War II including mission, concepts, doctrine, and employment evolution with emphasis on changes in conflict and technological development. Develops individual communications skills.

61.220 The Development of Air Power II 1 semester hour

Addresses air power development from the end of World War II to the present; changing missions and employment of air power in support of national objectives. Develops individual communications skills.

61.230 Basic ROTC Field Training 1-4 semester hours

Includes leadership training, survival training, and fitness training. Offered after successful completion of freshman and sophomore courses and by consent of the instructor.

Professional Officers Courses

The Professional Officer Courses (POC) constitute a four-semester program, normally taken during a student's junior and senior years, leading to commissioning as an Air Force officer. The POC concentrates on concepts and practices of management and leadership, national defense policy, and communication skills.

61.310 Concepts of Management

3 semester hours

Outlines general theory and practice of management with special reference to the Air Force. The evolution of management thought including classical, behavioral, and management science schools, study of information systems, quantitative approach to decision making, policy formulation, principles and practices in planning, organizing, staffing, directing, and controlling business and Air Force activities, resource control techniques, social and ethical issues within the management process, and development of communication skills.

61.320 Concepts of Leadership

3 semester hours

Studies Air Force leadership at the junior officer level, including its theoretical, professional, and legal aspects. Provides practical experience in influencing people, individually and in groups, to accomplish organiza-

tional missions effectively. Develops communication skills.

61.330 Advanced ROTC Camp

1-6 semester hours

Includes leadership training, survival training, and fitness training. Offered in lieu of the freshman and sophomore courses for transfer students and other students who enter the program at the junior level.

61.410 National Security Forces in American Society I

3 semester hours

Examines the role and functions of the professional military officer in a democratic soci-

ety and civil-military interaction; basic framework of defense policy and formulation of defense strategy; impact of East Asia, Latin America, Africa, the Middle East, and the Soviet Union on U.S. national security police. Develops individual communications skills.

61.421 National Security Forces in American Society II

3 semester hours

Studies the problems of developing defense strategy in a rapidly changing technological environment; effective deterrent posture and management of conflict; dynamics and agencies of defense policy making

Army ROTC

School of Extended Programs

Co-adjunct Instructors in Military Science

Capt. Eric Feindler, assistant professor of Military Science

MSG Richard Maloney, senior instructor

SFC Tommy Lovett, instructor

Bloomsburg University students can qualify for a commission in the U.S. Army, Army Reserve, or National Guard through the on-campus Reserve Officers' Training (ROTC) program while simultaneously pursuing a degree. Students may take the first two years of the ROTC without any military obligation. Opportunities also exist for Airborne, Air Assault, and Northern Warfare Schools.

Army ROTC provides a four-year curriculum open to both men and women regardless of academic major or area of study. The program is divided into two parts, the Basic Course and the Advanced Course. The Basic Course consists of four courses given during the freshman and sophomore years. During this period, instruction covers such subjects as military history and organization, traditions, and leadership development.

The Advanced Course consists of four courses given during the junior and senior years. This portion of the curriculum concentrates on practical application of leadership skills such as tactics, training, ethics, and continued leadership development.

Students receive academic credit for all ROTC courses. The basic program does not require the student to make any commitment to the U.S. Army and allows the student to develop an understanding of the role of the commissioned officer within the Army. Coursework provides training in leadership and management skills which help the individual develop the ability to communicate effectively, think analytically, and make independent and responsible decisions.

Two, three, and four year academic scholarships are available. Benefits include full tuition and fees, a flat fee for books, and \$100 a month during the academic year. Students enrolled in the advanced program also receive the \$100 a month regardless of whether or not they were awarded a scholarship. During the summer between the junior and senior year, students attend a six-week camp where they are paid at a rate equal to half the basic pay of a second lieutenant.

Veterans can receive constructive credit for the first two years of ROTC and are eligible to enter directly into the Advanced Course. There are a variety of options available to qualify students for the Advanced Course who did not take ROTC their first two years. Students belonging to the Army Reserve or National Guard are also eligible for the Simultaneous Membership Program.

Army ROTC also offers a ranger detachment for students who wish to gain more experience in outdoor activities such as orienteering and survival skills.

Students who successfully complete the ROTC curriculum receive a commission as a Second Lieutenant in the U.S. Army, Army Reserve, or National Guard. Time served on active duty varies, dependent upon the type of program the student elects. Students can be guaranteed Reserve or National Guard duty if they desire.

MILITARY SCIENCE (Code 67)

Basic Program Freshman and Sophomore Years

67.110 Introduction to Military Science 1 semester hour

Provides an overview of the organization of the ROTC program. Introduces skills such as rappelling, marksmanship, military customs, preparing military correspondence, and practical field training.

*One 75-minute class per week, 6 evening laboratories per semester.

67.120 Introduction to Military Issues 1 semester hour

Provides a background in basic skills essential to leaders. Skills may include markmanship, tactical movement, first aid, and communication skills.

*One 75-minute class per week, 6 evening laboratories per semester.

67.210 Applied Leadership and Management I

1 semester hour

Provides an overview of the Army rank structure and a specific survey of the junior officer's duties and responsibilities within that rank structure. Practical training consists primarily of advanced land navigation skills as well as rappelling and practical field training.

*One 75-minute class per week, 7 evening laboratories per semester.

67.220 Applied Leadership and Management II

1 semester hour

Presents the fundamentals of small unit leadership and mission planning techniques, to include the reverse planning process and problem-solving techniques. Students learn through case studies how to evaluate different leadership styles and techniques.

*One 75-minute class per week, 6 evening laboratories per semester

67.230 ROTC Basic Camp

4 semester hours

Sophomore summer semester course offered in lieu of the Basic Course for students who want to enter the Advanced Program. The camp is six weeks in duration and students are paid at the rate of half the basic pay for a second lieutenant.

*Note: Leadership laboratories consist of adventure/survival training, land navigation, first aid, and dismounted drill exercises which cannot be conducted in the classroom.

Advanced Program Junior and Senior Years

67.310 Advanced Military Science I

3 semester hours

Provides a detailed study of the leadership techniques and the principles introduced in 67.220. Course places students in role model situations to provide first-hand experience in problems of small unit leadership.

**One 3-hour class per week, seven laboratories per semester.

67.320 Theory and Dynamics of the Military Team

3 semester hours

Practical application of the skills learned in 67.310. Students learn how to apply planning and management skills properly in conjunction with small unit tactics.

**One 3-hour class per week, seven laboratories per semester

67.330 ROTC Advanced Camp 6 semester hours

A six-week practical application and evaluation phase required of each cadet prior to commissioning. Advanced camp places cadets in leadership positions where they must put into practice the techniques learned on campus in both tactical and nontactical situations.

67.410 Advanced Leadership and Management I

3 semester hours

Presents advanced leadership and management skills required of a manager in a military environment. Students perform roles in management of a military organization using skills in administration, training, conduct of meetings, briefings, and logistics.

67.420 Advanced Leadership and Management II

3 semester hours

Acquaints students through a series of case

studies and role playing simulations with the high ethical standards required of a manager and leader. Students learn the basic procedures of military law and their application in a military environment. Students continue to perform roles in management of a military organization, using skills developed in prior military science courses.

**One 3-hour class per week, six laboratories per semester

**Note: Students gain further practical leadership training during the leadership laboratories while performing in leadership positions and conducting training.

U.S. Marine Corps Platoon Leaders Program

This program provides selected students an opportunity to be commissioned as officers in the U.S. Marine Corps after completing summer training courses and a baccalaureate degree program at Bloomsburg University. Programs in Marine aviation and law also are available.

Contact: Captain B.N. Shultis, USMC, Veteran's Administration Building, North Main St., Wilkes-Barre, PA 17801; phone (717) 823-4131.

Department of Music

College of Arts and Sciences

Chairperson

Stephen C. Wallace

Associate Professors

John H. Couch Wendy L. Miller Stephen C. Wallace **Assistant Professors**

Mark R. Jelinek B. Eric Nelson Terry A. Oxley

W. Ann Stokes

Degree Program

Bachelor of Arts in Music

A total of 45 to 61 semester hours is required for a major in music.

Goals and Objectives

The goals of the Department of Music are to provide a balanced and diverse program of quality music activities, to provide a student-generated music performance element for the entire university community, and to achieve better understanding of the art of music and the principles guiding effective music education. This goal is supported by a generous number of course offerings (classroom music courses in appreciation, skill development, music history, style and repertoire, harmony and application), maintenance of seven prominent performance ensembles appearing regularly on campus and through tours, and opportunities to study voice, piano, organ, and the standard orchestral string and wind instruments on a weekly private lesson basis. In addition, opportunities exist for solo work, recitals, and leadership roles.

Program offerings include: a Bachelor of Arts in Music, a liberal arts-oriented preparation for studio teaching and postbaccalaureate study having either a performance or music history specialization; a minor in music, a 22-semester hour program packaged according to seven specialty areas in music; a music concentration for education majors; and certificate programs in music (22 semester hours) and theater-music (18 semester hours). Selection of either the music major or minor program is highly encouraged in the freshman year.

Prospective performance music majors must audition by cassette or in person before acceptance as a music major into the applied music (performance) specialization.

A maximum of 6 semester hours may be earned in seven ensembles: Maroon and Gold Band, Concert Choir, Women's Choral Ensemble, University-Community Orchestra, Husky Singers, Studio Band, and Chamber Singers. Enrollment in an ensemble is based on invitation or successful audition. The ensembles are described as courses 35.106 through 35.112.

Private lessons in voice, organ, piano, strings, woodwinds, brass, and percussion are available to qualified students. Eight semester hours of private instruction may be earned in eight fall/spring semesters, 16 semester hours for music majors. (For voice, contact Drs. Nelson or Miller; for organ, Nelson; for piano, Couch; for class piano, Stokes or Couch; for woodwinds and percussion, Oxley; for brass, Wallace; and for strings, Jelinek and Stokes.)

Each performance ensemble carries both a lower division and an upper division course number; the latter indicates enrollment from the fourth semester of participation. The upper division course number is always a 300 level number. Similarly each applied studio instruction (private lesson) carries two division course numbers, the upper division number indicating enrollment from the third semester of study.

A limited number of music scholarships are available.

Required Courses and Options

Required courses include: 35.101, 35.201, 35.202, 35.210, 35.211, 35.301, 35.321, 35.322, 35.410, and 35.411; demonstration of piano proficiency by examination and/or election of 35.302; 6 semesters (4 semester hours) of ensemble; and one of the following two options:

Music History and Literature-16 semester hours; 35.430, 35.431, and 9 semester hours through courses 35.324, 35.325, and 35.327; also 4 semester hours of the instruments or voice.

Applied Music (Performance) Option-16 semester hours: one instrument or voice for 8 semesters. Selection of voice as the applied music area requires 16 semester hours in language courses: 16.109 Language for Singing, French 10.101 and 10.102, German 11.101 and 11.102, and Italian 14.101.

Early acceptance as a music major is necessary to complete the program in eight semesters.

General Education Courses

Specific course area (4 categories) as desired (18 semester hours)

Group A (Humanities): 12 semester hours necessary

30.101 Introduction to Art

25.103 Public Speaking

42.112 Origins of the Modern World

14.101 Italian I

11.101 German I

10.101 French I

28.111 Introduction to Philosophy

26.102 Introduction to Theater Arts

26.215 History of the Theater

Group B (Social/Behavioral Sciences): 12 semester hours necessary

41.102 World Cultural Geography

46.200 Principles of Cultural Anthropology

48.101 General Psychology

48.131 Psychology of Adjustment

48.211 Child Psychology

48.212 Adolescence

Group C (Natural Science and Mathematics): 12 semester hours necessary

52.100 Chemistry and the Citizen

53.101 Mathematical Thinking

54.101 Basic Physical Science

54.104 Elementary Electronics

54.106 The Science of Sound

Minor in Music

The minor provides a music emphasis in areas designated applied voice, applied instrumental music, applied keyboard, music history – literature, theory (harmony and application), music skills (general music development), and audio recording techniques.

The minor in music is a 22-semester hour emphasis that may be selected by students who major in a program other than the Bachelor of Arts in Music. The minor, which may be completed in 8 or fewer semesters, is built from Code 35 courses that include music theory, ear training, music history and style, applied study, and performing ensembles.

Career Concentration

The audio recording techniques career concentration is a cross-discipline vocational preparation, available through the Department of Music in cooperation with the departments of mass communications and physics and private business. Internships are required.

MUSIC (Code 35)

Courses are offered each semester unless otherwise noted.

35.101 Music Listening

3 semester hours

Provides an approach to music listening through study of basic vocal and instrumental styles. Analysis of various masterpieces, composers, and musical forms. Requires no previous musical experience. Recommended first-course in non-applied music.

35.103 Fundamental Musicianship

Spring 3 semester hours Explores personal music understanding and development through elementary terminology, symbols, theory, music reading, singing, playing, and chording of simple instruments and bodily movement to music. Suggested for students with little musical background as preparation for applied study and courses 35.201, 35.210, and 35.320. Recommended first-course in applied music.

35.106 Maroon and Gold Band

35.306 0-1 semester hour Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires 5 hours per week each fall and 4 hours per week each spring.

35.107 University-Community Orchestra 35.307 0-1 semester hour Performs music appropriate to the symphony orchestra. Requires 3 hours per week. Rehearses Monday evenings. Election for wind

and percussion players requires permission of the instructor.

35.108 Concert Choir

35.308 0-1 semester hour

Performs choral music of varied styles and periods. Membership by audition only. Requires 4 hours per week.

35.109 Women's Choral Ensemble

35.309 0-1 semester hour

Performs varied styles from popular to masterworks. Requires 3 hours per week. No audition required.

35.110 Husky Singers

35.310 0-1 semester hour

Performs varied music for men's chorus. Requires 2 hours per week. No audition required.

35.111 Chamber Singers

35.311 0-1 semester hour

Performs music of many styles and periods, Renaissance to present. Open to singers from other university vocal ensembles. Requires 3 hours per week. Membership by audition only.

35.112 Studio Band

35.312 0-1 semester hour

Performs jazz, swing, and other forms representing the big band style. Requires 3 hours per week. Election requires permission of the instructor. Audition may be necessary.

35.201 Sight Singing I

Spring 1 semester hour

Development of the musical ear through progressive training. Elected by music majors or as a single course by non-music majors. Requires 2 hours.

Prerequisites: 35.103, 35.210 or consent of the instructor

35.202 Sight Singing II

Fall 1 semester hour Continues musical ear training. Elected by music majors or as a single course by non-music majors. Requires 2 hours.

Prerequisite: 35.201

35.203 Class Voice

Fall 2 semester hours Provides group voice instruction for the beginner. Emphasizes fundamental singing techniques and solo performance. Requires 3 hours per week.

35.204 Class Piano I

2 semester hours

Provides group piano instruction for the beginner. Emphasizes solo playing, sight-reading, and creative accompaniment. Requires 3 hours per week. Limited seating.

35,205 Class Piano II

2 semester hours

Develops independence in solo playing and accompanying. Continuation of 35.204 or students with demonstrated abilities. Requires 3 hours per week. Consent of instructor.

35.206 Class Strings

2 semester hours

Provides learning of fundamental string skills and information related to string instruments. Requires 3 hours per week.

Prerequisite: 35.103 or consent of instructor

35.207 Class Brass Fall/even-numbered years

2 semester hours

Provides group brass instruction for the beginner or the brass player who wishes to double. Emphasizes fundamental technique and elementary performance. Requires two hours per week.

Prerequisite: 35.103 or consent of instructor

35.210 Music Theory I

Fall 3 semester hours Studies harmony, voice leading, and written harmonization. Requires 3 hours per week. Prerequisite: 35.103 or consent of instructor

35.211 Music Theory II

Spring 3 semester hours

Continues Music Theory I with the study of seventh chords and common-chord and chromatic modulations. Includes melodic and rhythmic dictation and keyboard realization. Requires 3 hours per week.

Prerequisite: 35.210

35.213 Violin

35.313 1 semester hour

Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor

35.214 Viola

35.314 1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor.

35.215 Violoncello

35,315 1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.216 Double Bass

35.316 1 semester hour

Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.217 Organ

35.317 1 semester hour

Private instruction for those who have previously studied organ or who have strong piano backgrounds. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.230 Voice

35.330 1 semester hour Private instruction for students with demonstrated vocal abilities. One-half hour per week. May be repeated at 1 semester hour each election.

Prerequisite: 35.203 except music majors and declared music minors

35.235 Piano

35.335 1 semester hour Private instruction for students with previous piano study. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.240 Trumpet

35.340 1 semester hour Private instructions for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.241 Horn

35.341 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.242 Trombone

35.342 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.243 Baritone

35.343 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.244 Tuba

35.344 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.251 Flute

35.351 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35,252 Oboe

35.352 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.253 Clarinet

35.353 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.254 Bassoon

35.354 1 semester hour Private instruction for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.255 Saxophone

35.355 1 semester hour Private instruction for students with ability or potential. One-half per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.256 Percussion

35.356 1 semester hour Private instruction with snare, timpani, and mallets for students with ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor.

35.270 Violin for Music Majors 35.470 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music, program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.271 Viola for Music Majors

35.471 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.272 Violoncello for Music Majors 35.472 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.273 Double Bass for Music Majors 35.473 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.274 Organ for Music Majors

35.474 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.275 Voice for Music Majors

35.475 2 semester hours

Two weekly half-hour lessons for students electing the applied voice specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.276 Piano for Music Majors

35.476 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.277 Trumpet for Music Majors 35.477 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.278 Horn for Music Majors 35.478 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.279 Trombone for Music Majors 35.479 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.280 Baritone for Music Majors

35.480 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.281 Tuba for Music Majors 35.481 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.282 Flute for Music Majors

2 semester hours

Two weekly half-hour lessons for students electing applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.283 Oboe for Music Majors 35.483 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.284 Clarinet for Music Majors 35.484 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.285 Bassoon for Music Majors 35.485 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.286 Saxophone for Music Majors 35.486 2 semester hours

Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours.

35.300 Music Theory III Fall/odd-numbered years

3 semester hours

Continuation of music theory. Includes formal analysis, design, original composition, harmonic dictation, and perception skills. Requires 3 hours per week.

Prerequisite: 35.211

35.301 Music Theory IV Spring/even-numbered years

3 semester hours

Continuation of music theory. Reviews 20th century compositional practice. Includes analysis and composition. Requires 3 hours per week.

Prerequisite: 35.211

35.302 Piano Proficiency

1 semester hour

Provides opportunity for majors in music to gain proficiency at the keyboard. May be repeated.

35.303 Seminar in Piano Accompanying 2 semester hours

Provides instruction, coaching, systematic score study, and critical performing experience for pianists. Requires 3 hours per week and includes performing.

Prerequisite: Consent of the instructor

35.304 Special Topics in Music Performance

3 semester hours

Provides a unique experience in performance or the study of performance practice. Instructor develops a one-time-only study. Information is available by contacting the Department of Music. Offered as needed.

35.305 Special Topics in Music Appreciation

3 semester hours

Provides a study of music beyond currently available course topics. Instructor develops a one-time-only study. Information is available by contacting the Department of Music. Offered as needed.

35.320 Music in the Elementary School 3 semester hours

Provides students with practical skills, theoretical background, and musical knowledge that will enable them to teach general music effectively in the elementary classroom. Course designed primarily for elementary education majors. Limited seating.

35.321 Music History to 1750

Fall 3 semester hours

Emphasizes understanding and appreciation of music from medieval times to 1750 through listening and development of a technical vocabulary.

35.322 Music History-1750 to Present Spring 3 semester hours

Provides an overview of music history from the Classical era to the present time. Includes discussion of composers and significant persons, works, and development of forms and genres during this time frame.

35.323 Choral Conducting and Methods Spring/even-numbered years

3 semester hours

Examines the development of techniques and abilities for participating in and supervising choral ensembles. Stresses tone production, proper breathing, choral conducting, and reading of appropriate literature. Prerequisite: 35.211

35.324 American Music Fall/even-numbered years

3 semester hours

Studies works of selected American composers with reference to characteristics indigenous to American music.

Prerequisite: 35.101

35.325 Opera and Music Theater Spring/odd-numbered years

3 semester hours

Studies major works of the lyric stage. Emphasizes listening to and reading works of opera, operetta, and the popular theater. Prerequisite: 35.101

35.327 Survey of Popular Music Fall/odd-numbered years

3 semester hours

Analyzes factors and elements of American popular music with emphasis on developments in the 20th century. Includes a chronological study of jazz, balladry, spiritual, country-western, theater, film, and rock in comparative listening situations.

Prerequisite: 35.101

35.329 Instrumental Conducting

2 semester hours

Develops skills in baton technique and score reading with emphasis on practical application in the instrumental organizations. Labo-

ratory course with three 50-minute sessions per week.

Prerequisites: music major and 35.211

35.410 Music Theory V, Counterpoint Fall/even-numbered years

2 semester hours

Continuation of music theory. Studies melodic writing in two and three voices using 18th century style. Requires 2 hours per week. Prerequisite: 35.211

35.411 Music Theory VI, Orchestration Spring/odd-numbered years

2 semester hours

Continuation of music theory. Examines instrumental transposition, idioms, score writing, and analysis. Requires 3 hours per week. Prerequisite: 35.211

35.430 Seminar in Music History I

2 semester hours

Emphasizes development of skill in independent research in areas of music history for majors in music electing the music history specialization. Offered as needed.

Prerequisite: 35.321, 35.322

35.431 Seminar in Music History II 1 semester hour

Continuation of 35.430 with emphasis on academic research and musicology for majors in music electing the music history specialization. Offered as needed.

Prerequisite: 35.430

35.497 Internships in Music

3-15 semester hours

Provides for extended off-campus field experience to be arranged by the major in music, a faculty adviser, and an off-campus agency. Requires consent of music department during pre-scheduling.

35.498 Independent Study in Music

1-3 semester hours

Provides for a student project of a creative nature in music history, education or performance. Requires consent of music department during pre-scheduling.

35.350 Seminar in Music Theater 3 semester hours

Studies the Broadway musical with special emphasis on works currently in production.

Offered in conjunction with productions during spring and summer semesters. Prerequisite: 35.101

Faculty Credentials

JOHN H. COUCH

A.R.C.T., Royal Conservatory of Music; M.M., Indiana University School of Music; D.M.A., Catholic University

MARK R. JELINEK

B.M.E., M.A., Eastern New Mexico University; D.M.A., Arizona State University

WENDY L. MILLER

B.S., Bluffton College; M.M., D.Mus., Indiana University

B. ERIC NELSON

B.M., Houghton College; M.M. Westminister Choir College; D.Mus., Indiana University

TERRY A. OXLEY

B.M.E., University of Wisconsin, Eau Claire; M.M.E., University of Wisconsin, Steven's Point; D.A., University of Northern Colorado

W. ANN STOKES

B.Mus., M.Mus., University of North Carolina-Greensboro: Ph.D., Northwestern University

STEPHEN C. WALLACE

B.S., Mansfield State College; M.M., University of Michigan; D.Ed., The Pennsylvania State University

Department of Nursing

School of Health Sciences, College of Professional Studies

Chairperson

M. Christine Alichnie

Professors

M. Christine Alichnie Nancy A. Onuschak

Associate Professors

Mary A. Gavaghan Annette Gunderman Dorette E. Welk

Assistant Professors

Jean E. Berry Julia Bucher Robert L. Campbell

Mary Ann Cegielsky
Carolyn M. Dalton, part-time nutritionist

Sandra E. Girton Sharon S. Kribbs Cathy E. Livengood Bernadine T. Markey Gloria I. Schechterly

Joan B. Stone

Patricia B. Torsella, assistant chairperson

Instructors

Mary Alexandrakos-Koko Carol Moore

Degree Program

Bachelor of Science in Nursing

A total of 57 semester hours is required for a major in nursing.

Goals and Objectives

The nursing program prepares students for the basic goal of nursing which is to promote, restore, and maintain health and to facilitate the realization of the client's optimal potential for wellness throughout the lifespan. Nurses accomplish this goal through the application of knowledge, critical thinking, and effective communication in the use of the nursing process, therapeutic skills, and technology as they administer nursing services to clients in diverse cultures in a variety of settings.

The Bachelor of Science in Nursing (BSN) is awarded to those students who successfully complete the requirements for the degree. Degree recipients (non-RN) are then eligible to take the NCLEX licensure examination administered by the Board of Nursing in the state of their choice.

For information on the policies related to admission, promotion, retention, transfer, advanced placement, and dismissal, see the section on the *College of Professional Studies* on page 13.

Generic Students

Generic is a term used by the National League for Nursing and the Pennsylvania State Board of Nursing to designate students who are not registered nurses. Four types of candidates fall into the generic category: freshman candidates, external transfer candidates, internal transfer candidates, and second degree candidates.

General Education Courses

A number of the prescribed courses in the physical sciences and social sciences, required as prerequisites for the nursing curriculum, may also apply toward General Education Requirements in Groups B and C.

Required Courses

Prerequisite Courses

Psychology 48.101, 48.210; Sociology 45.211; Biology 50.173, 50.174, 50.240; Chemistry 52.101, 52.103, 52.108

Professional Courses

Nursing 82.210, 82.211, 82.212, 82.213, 82.306 (an introductory course in statistics is prerequisite—either Psychology 48.160 or Mathematics 53.141), 82.311, 82.312, 82.410, 82.411, 82.412, 82.413

Elective Courses

Additional courses must be taken as necessary to complete the minimum graduation requirement of 128 semester hours.

Registered Nurses

Required Courses

Prerequisite courses to the major are: Psychology 48.101, 48.210; Sociology 45.211; Biological and Allied Health Sciences 50.173, 50.174, 50.240; Chemistry 52.101, 52.103, and 52.108.

Professional Courses

The following courses are required for RN students: Nursing 82.305, 82.306 (a statistics course, either Psychology 48.160 or Mathematics 53.141, is prerequisite); 82.410 and 82.413.

Elective Courses

Additional courses must be taken as necessary to complete the minimum graduation requirement of 128 semester hours.

General Education Courses

A number of the prescribed courses in physical sciences and social sciences, required as prerequisites for the nursing curriculum, may also apply toward meeting General Education Requirements in Groups B and C.

Advanced Placement

RNs may earn credits through examinations if they meet the required prerequisites and provisions to the course(s) being challenged. The mechanisms for advanced placement are as follows:

- a. Credit by Examination (faculty prepared examinations) procedure as explained earlier in this catalog. In the Department of Nursing, the RN may petition for credit by examination in courses 82.211, 82.212, and 82.410. Nursing study guides are available to facilitate review for these examinations. Petitioning for credit by examination can only occur following admission to the university. Other departments can be contacted to petition for credit by examination based upon university policy. The student must go directly to the chairperson of the individual department (i.e. Department of Biological and Allied Health Sciences, Department of Chemistry).
- b. College Level Equivalency Examination Program (CLEP), procedure as explained elsewhere in this catalog.
- c. NLN Mobility Profile II: 36 semester hours of advanced placement may be earned through the successful completion of four NLN Mobility Profile II tests. A failure on the

examination will require enrollment in the recommended Bloomsburg University course. Information about the NLN Mobility Profile II tests may be obtained from the Department of Nursing.

The following is a suggested four-year sequence for the BSN curriculum, including the code number, title, and semester hours for each course.

FRESHMAN YEAR

Fall Semester		Spring Semester	
50.173 Anatomy/Physiology I	4	50.174 Anatomy/Physiology II	4
52.101 Introductory Chemistry	3	52.108 Physiological Chemistry	4
52.103 Introductory Chemistry		45.211 Principles of Sociology	3
Laboratory	2	48.210 Life-Span Psychology	3
48.101 General Psychology	3	20.201 Composition II	3
20.101 Composition I	3	or 20.200 Writing Proficiency	
or 20.104 Honors Composition		Examination	
05.000 Survival	1	05.000 Survival	1

SOPHOMORE YEAR

Fall Semester		Spring Semester	
50.240 Introductory Microbiology	3	82.213 Nursing II	6
82.210 Nursing I (non-RNs)	3	Statistics	3
82.211 Nutrition	3	Quantitative-Analytical	
82.212 Pharmacology	3	Elective	
Communication elective	3	or General Education	
05.000 Survival	1	requirement	3
		General Education	
		requirement	6

In the junior and senior years, the class is divided in half so that half the students take the level classes in a different sequence.

JUNIOR YEAR

Fall or	Spring Semester		Fall or Spring Semester	
82.305	Role Development for N	Jurse	82.312 Nursing IV	8
	Generalist (RNs only)	3	General Education	
82.311	Nursing III	8	requirement	9
	Values electives	3		
82.306	Methods of Inquiry	3		
SENIC	OR YEAR			

Fall or Spring Semester		Fall or Spring Semester	
82.410 Nursing V	6	82.412 Nursing VII	8
82.411 Nursing VI	6	82.413 Nursing Trends and Issues	3
Free elective	3	Free elective	3

NURSING (Code 82)

Courses within the nursing curriculum are restricted to students in the B.S.N. program, except for 82.217 Alcohol: Use and Abuse which is a values or free elective open to all students.

82.200 Nursing Placement

Variable semester hours

A number used to transfer in advanced placement credits resulting from NLN Mobility II Profile tests or ANA certification examinations which may be taken by registered nurses.

82.210 Nursing I

3 semester hours

Focuses on the roles of the professional nurse and the use of the nursing process. Content includes the philosophy and conceptual framework of the university, Department of Nursing, health care delivery systems, and legal and ethical aspects of nursing practice. Prerequisites: Sociology 45.211; Psychology 48.101, 48.210; Biological and Allied Health Sciences 50.173, 50.174, concurrent 50.240; sophomore nursing student status

82.211 Nutrition

3 semester hours

Introduces the principles of nutrition and ways in which these principles are applied to promote an optimal level of wellness for all individuals. Topics include nutritional requirements for maintaining health and development throughout the lifespan as well as factors affecting food choices of individuals and society.

Prerequisites: Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101, 52.103, 52.108; concurrent 50.240; sophomore nursing student status

82.212 Pharmacology

3 semester hours

Provides a foundation in pharmacology for pharmacologic content integration throughout the curriculum. Explores the legal, social, ethical, historical, and political dimensions of pharmacotherapeutics.

Prerequisites: Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101, 52.103, 52.108; concurrent 50.240; sophomore nursing student status

82.213 Nursing II

6 semester hours

Focuses on the use of the nursing process to facilitate an optimal level of wellness of adult individuals in a diverse and multicultural society in nonlife-threatening, adaptive situations in community hospitals. Content is organized within the framework of the basic human needs of self-concept, security, mobility, nutrition/elimination, and oxygenation and developed through application of the nursing process. Beginning role behaviors are applied in the clinical setting.

Prerequisites: 82.210, 82.211, 82.212; Biological and Allied Health Sciences 50.240

82.217 Alcohol: Use and Abuse

3 semester hours

Provides comprehensive overview of alcohol use and misuse in the American population. Because alcohol is a leading public health problem in the U.S., this course is intended for students in all disciplines. Examines the nature of alcohol problems as well as sociocultural attitudes towards drinking. Explores alcohol's effects on the body. Discusses the impact of alcoholism on adolescents, professional workers, women, the elderly, and the family. Examines prevention, intervention, and referrals. An overview of treatment and rehabilitation that includes spiritual, moral, and legal aspects.

82.305 Role Development for the Nurse Generalist (RN)

3 semester hours

Resocializes the registered nurse for professional practice. Introduces the purpose, objectives, and conceptual framework of the Department of Nursing's program. Through increased knowledge and integration of varied professional nursing concepts, the student develops the roles of practitioner,

teacher, leader/manager, and consumer of research.

Prerequisites: Current state RN's license; Biological and Allied Health Sciences 50.173, 50.174, 50.240; Sociology 45.211; Psychology 48.101, 48.210; 48.160 or Mathematics 53.141; Chemistry 52.101, 52.103, 52.108; Nursing 82.211, 82.212; NLN Mobility Profile II examinations

82.306 Methods of Inquiry

3 semester hours

Introduces research methods and techniques to assist students in becoming consumers of research. Emphasizes the contribution of research to the discipline and the consumer's role in critically evaluating, applying, and disseminating research findings. Requires students to demonstrate use of research principles and skills in scholarly written and oral communications.

Prerequisite: Psychology 48.160 or Mathematics 53.141; Junior standing; 82.305 (if RN) or consent of instructor

82.307 Geriatric Nursing

3 semester hours

Focuses on the physiological, psychological, and social aspects of aging with emphasis on the assessment of problems and appropriate nursing intervention.

Prerequisite: Junior or Senior standing or RN

82.311 Nursing III

8 semester hours

Focuses on the use of the nursing process in helping adult individuals and families reach their optimal level of wellness as they adapt to chronic and potentially life-threatening situations. Content is organized within the framework of five basic human needs. Professional role behaviors continue to develop in clinical settings in medical centers/hospitals as the student achieves a broader perspective of the client as an individual and a family. Prerequisite: 82.213

82.312 Nursing IV

8 semester hours

Focuses on the use of the nursing process, in

accord with ANA standards, to facilitate optimal level of wellness of beginning and developing families. Theories of growth and development and family developmental tasks provide the framework for planning and implementing nursing care with clients of diverse cultures. Students develop in their role performance as they interact with clients and a variety of providers to assist families to attain an optimal level of wellness.

Prerequisite: 82.213

82.313 Special Topics

1-6 semester hours

Presents a diversity of topics focusing on contemporary trends, issues, and problems relevant to the principles and practice of professional nursing in the health care system.

Prerequisite: Junior standing

82.405 Independent Study

1-6 semester hours

Requires investigation of an area of special interest and value to the student under the direction of a faculty member following a plan approved by the department chairperson. Course may be interdisciplinary.

Prerequisite: Senior standing or consent by department

82.410 Nursing V

6 semester hours

Focuses on the use of the nursing process in assisting the community with its adaptive responses to facilitate an optimum level of wellness of holistic humankind. Process of role development is fostered through independent and interdependent activities with a variety of culturally diverse population aggregates in community settings.

Prerequisites: 82.305 (if RN), 82.306, 82.311, 82.312

82.411 Nursing VI

6 semester hours

Provides a holistic focus on a diverse, multicultural client population at various points on the mental health/mental illness continuum. Relevant principles and theories

of human behavior, adaptation, and therapeutic intervention provide a framework for the planning and implementation of nursing care. Students employ a "therapeutic use of self" as they implement the nursing process to assist individuals, families, and communities in attaining and maintaining an optimal level of mental wellness. Enhances the student's pro-fessional role development through a variety of independent and interdependent activities with clients and the interdisciplinary team which are designed to improve the quality of mental health care. Prerequisites: 82.305 (if RN), 82.306, 82.311, 82.312

82.412 Nursing VII

8 semester hours

Focuses on meeting the health care needs of a diversity of adult clients in complex and life-threatening situations. Students use critical thinking skills in assisting clients to attain and maintain an optimal level of wellness. They collaborate with clients and the interdisciplinary team in acute care and community settings in the implementation of preventive, restorative, and rehabilitative activities designed to maintain optimal health of holistic man. Learning experiences are provided in medical centers/hospitals so that the student can continue to develop proficiency as a practitioner, teacher, and consumer of research. Emphasis directed toward learning activities which allow student to function as a leader/manager to improve the quality of health care.

Prerequisites: 82.305 (if RN), 82.306, 82.311, 82.312

82.413 Nursing Trends and Issues 3 semester hours

Explores the nature of professional nursing as it occurs in our society with particular reference to the health care system and the future. Uses seminar format to explore and analyze current issues and trends in professional nursing.

Prerequisites: 82.305 (if RN), 82.306, 82.311, 82.312

Faculty Credentials

M. CHRISTINE ALICHNIE

B.S., University of Pittsburgh; M.S., Wilkes College; M.S., Ph.D., University of Pennsylvania

JEAN E. BERRY

B.S.N., Georgetown University; M.S.N., University of Pennsylvania

IULIA A. BUCHER

B.S.N., University of Delaware; M.S.N., University of Washington; M.S., Seattle University; Ph.D., The Pennsylvania State University

ROBERT L. CAMPBELL

R.N., Robert Packer Hospital School of Nursing; B.S.N., University of Pittsburgh; M.N., University of Washington

MARY ANN CEGIELSKY

R.N., Ashland State Hospital School of Nursing; B.S.N., The Pennsylvania State University; M.S.N., Villanova University

CAROLYN M. DALTON

B.S., M.S., The University of Connecticut

MARY A. GAVAGHAN

B.S.N., M.S.N., University of Pennsylvania; Ed.D., Temple University

SANDRA G. GIRTON

B.S.N., M.N., University of Pittsburgh

ANNETTE GUNDERMAN

B.S.N., Bloomsburg University; M.S.N., The Pennsylvania State University

SHARON S. KRIBBS

R.N., Harrisburg Hospital School of Nursing; B.S., Bloomsburg State College; M.N., The Pennsylvania State University

MARY ALEXANDRAKOS-KOKO

Diploma, St. Luke's Hospital School of Nursing; B.S.N., Thomas Jefferson University; M.S.N., University of Pennsylvania

CATHY E. LIVENGOOD

B.S., Alderson-Broaddus College; M.S.N., West Virginia University

BERNADINE T. MARKEY

B.S., Bloomsburg University; M.S, The Pennsylvania State University

CAROL M. MOORE

B.S.N., Bloomsburg University; M.S.N., University of Pennsylvania

NANCY A. ONUSCHAK

B.S., M.S.Ed., Wilkes College; M.N., The Pennsylvania State University; Ed.D., Temple University

GLORIA J. SCHECHTERLY

Diploma, Geisinger Medical Center School of Nursing; B.S.N., Wilkes College; M.S., The Pennsylvania State University

IOAN B. STONE

R.N., Harrisburg Hospital School of Nursing; B.S.N., University of Pennsylvania; M.S.N., D.Ed., The Pennsylvania State University

PATRICIA B. TORSELLA

B.S.N., M.S.N., University of Pennsylvania

DORETTE E. WELK

B.S.N., D'Youville College; M.S.N., University of Pennsylvania; Ph.D., The Pennsylvania State University

Courses for Non-Matriculating RNs

The following courses are offered through the School of Extended Programs on a demand basis for RNs not matriculated with the BSN program. The courses are designed to expand their knowledge and skills bases in the research process in nursing.

82.204 Critical Evaluation of Research in Nursing

1 semester hour

Introduces research methods and techniques. Focuses on the student as a consumer of research with emphasis critiquing research studies for application and the ethics of research with human subjects.

82.205 Research Application in Nursing 1 semester hour

Focuses on the contribution of research to the discipline and the consumer's role in applying research findings. Emphasizes identifying researchable problems and improving practice through application of research findings.

Prerequisites: 82.204, statistics course

82.206 Proposal Writing in Nursing 1 semester hour

Focuses on the research process in identifying a researchable problem and formulating a beginning level research prospectus. Emphasizes conceptualization of a design to study a research problem.

Prerequisite: 82.204,82.205, statistics course, or consent of instructor

HEALTH SCIENCES (Code 80)

ately credentialed preceptor. Open to stu-

80.400 Health Sciences Internship

3-6 semester hours Provides the opportunity to apply acquired knowledge in an on-site practicum experience under the supervision of an appropri-

dents in the health sciences. Prerequisite: Senior standing

Department of Business Education and Office Administration College of Business

Chairperson Roger W. Ellis

Professor John J. Olivo Jr. Associate Professors

Ellen M. Clemens Donna J. Cochrane Nancy A. Dittman Roger W. Ellis

Assistant Professors

Dennis O. Gehris Janice C. Keil

Degree Program

Bachelor of Science in Office Administration

A total of 81 to 84 semester hours is required for a major in office systems. This total reflects program requirements and General Education courses.

Goals and Objectives

Office systems is a relatively new field of study that focuses on the impact of technology on the end-user. Office systems is one component of business information systems. The program in office systems at Bloomsburg is modeled after the Office Systems Research Association Curriculum, which has been endorsed by business, industry, and educational institutions of higher learning. This program provides the student with the skills and knowledge to manage human resources, technology, and the environment and to update procedures in today's highly competitive business world. Currently, only 68 universities in the nation offer a degree in office systems, and the program at Bloomsburg University is considered a national model.

Required Courses

Required courses include: General Business 90.101 and 90.333; Accounting 91.220 (91.221 and 91.222) and 91.223; Computer and Information Systems 92.150; Management 93.344, 93.446, and 93.449; Office Systems 94.221, 94.302, 94.330, 94.401, 94.403, and 94.405. Finance 96.313; Marketing 97.310; and Business Law 98.331.

Electives and Free Electives

Students must choose 9 to 12 semester hours in elective courses from General Business, Accounting, Computer and Information Systems, Management, Office Systems, Finance, Marketing, and Business Law. Students must choose 8 semester hours in free elective courses.

General Education Courses

The following are required General Education courses: English 20.101 and 20.201; Speech Communication 25.103; Economics 40.211,40.212, and 40.346 or Mathematics 53.118; 53.142; and 3 semester hours in values; 3 semester hours in fitness and recreation, 12 semester hours in humanities, 6 semester hours in social and behavioral sciences, and 9 semester hours in natural sciences and mathematics.

OFFICE SYSTEMS (Code 94)

94.221 Office Systems Concepts

3 semester hours

An overview of office systems—technology, people, and procedures — within organizational and environmental contexts. Major technologies, both hardware and software, that support information creation, storage, retrieval, manipulation, and distribution are covered. Introduces applications and systems software using computer laboratory projects.

94.302 Business Document Generation

3 semester hours

Provides the student with the opportunity to use computer and business application software to produce business documents.

94.330 Telecommunications

3 semester hours

An introduction to telecommunications in the business environment. Topics include telephone, data codes, protocols, network architectures, local area networks, communications media, hardware, and software. Management issues and practical applications are integral to course. Emphasis on application of telecommunications to facilitate information interchange in whatever form the information takes: data, voice, text, and image. Prerequisite: lunior standing

94.401 Information Resource Management

3 semester hours

Provides a study of records creation, inventory and analysis, active and inactive records maintenance, storage and retrieval, micrographics, and computer information management systems.

Prerequisite: Senior standing

94.403 Office Systems Management 3 semester hours

A study of the most acceptable methods and practices of office systems. Topics include organization and planning of office systems, human relations, controlling operations, and processing information. Emphasis on competencies needed for organizing and administering automated office systems.

Prerequisite: Senior standing

94.405 Training and Development in Office Systems

Spring 3 semester hours
Application of theories of learning and in-

structional development to the education and training of employees in office systems. Topics include instructional design, technology, and the implementation, evaluation, and management of training in an organizational environment.

Prerequisite: Senior standing

Faculty Credentials

ELLEN M. CLEMENS

B.S., M.Ed., Bloomsburg State College; D.Ed., The Pennsylvania State University

DONNA J. COCHRANE

A.A.S., Dutchess Community College; B.S., M.S., State University of New York at Albany; Ed.D., Temple University

NANCY A. DITTMAN

B.S., Florida State University; M.Ed., University of Florida; Ed.D., University of Colorado

ROGER W. ELLIS

B.S., M.Ed., Bloomsburg State College; Ed.D., Arizona State University

DENNIS O. GEHRIS.

B.S., M.A., Rider College; Ed.D., Temple University

JANICE C. KEIL

B.S., M.Ed., Bloomsburg State College; Ed.D, Temple University

JOHN J. OLIVO JR.

B.S., Davis and Elkins College; M.Ed., Trenton State University; Ph.D., Michigan State University

Department of Philosophy

College of Arts and Sciences

Chairperson

Richard J. Brook

Professors

Richard J. Brook Marjorie A. Clay Oliver J. Larmi **Assistant Professors**

Lee Cooke Wendy Lee-Lampshire Scott C. Lowe

Degree Program

Bachelor of Arts in Philosophy

A total of 30 semester hours is required for a major in philosophy.

Goals and Objectives

The Department of Philosophy offers a broad range of courses designed to provide both a general acquaintance with the issues and methods of philosophy as well as a solid foundation for advanced work in the discipline. In all of its courses, the department seeks to encourage students to develop their thinking skills, by engaging them with the best minds of the past and present, by challenging them to examine and to criticize the arguments of others, and by leading them to question their own valuers and commitments. Regardless of topic or level of difficulty, philosophy courses provide a unique opportunity to acquire and to practice a variety of valuable skills, such as the ability to solve problems, to communicate effectively, and to assess the strength and cogency of opposing arguments and proposed plans of action.

The five-member department offers both a major and a minor in philosophy, and also supports the university's liberal arts mission by including courses that satisfy various General Education requirements (i.e., in the Humanities division and in the area of Values, Ethics, and Responsible Decision-Making). Students who complete a major or a minor in philosophy are well prepared to pursue advanced work in the discipline or to apply their philosophical skills in multiple career settings such as law, medicine, business, or government.

Required Courses

The following courses are required: Philosophy 28.212, 28.221, 28.224, 28.228 or 28.229; 28.213 can be substituted for 28.212.

Elective Courses

Six elective courses must also be selected in addition to the required courses for this degree program. Two courses must be from the 300 level sequence: 28.303, 28.305, 28.306, 28.307, 28.308 or 28.351.

Minor in Philosophy

A total of 18 semester hours is required for a minor in philosophy. Required courses are: 28.111, 28.212, and 28.220. Course 28.110 as well as 28.213 will meet the logic requirement for the minor. Three elective courses must be selected. Choose one elective from either the historical sequence, 28.221, 28.224, 28.228 or 28.229, or one systematic course (a 300 level course).

PHILOSOPHY (Code 28)

28.110 Critical Thinking

3 semester hours

Designed for students to learn how to think critically. Emphasis is on the construction and evaluation of arguments. Surveys several forms of argument including inductive, deductive, analogical, and legal reasoning.

28.111 Introduction to Philosophy

3 semester hours

Presents reflective inquiry into selected problems of general philosophic interest. Considers the types of knowledge, individual and social values, the nature of reality, and the existence of God.

28.212 Logic

3 semester hours

Reviews methods and principles of reasoning with applications to contemporary debates. Examines informal fallacies, the syllogism, predicate calculus, sentential calculus, quantification, and induction.

28.213 Logic and Computing

3 semester hours

Introduces fundamental areas where logic and computation intersect including the propositional calculus and the design of logic circuits; validity and proof; Turing machines and logic programming. Stress on algorithmic methods for translation and proof.

28,220 Ethics

3 semester hours

Studies ethical theory focusing on such issues as ethics as a branch of knowledge, egoism vs. altruism, and role of intentions and consequences in moral judgments. Reviews theories such as relativism, utilitarianism, and Kantianism. Investigates concepts of "rights" and "justice."

28.221 Plato and Aristotle

Fall 3 semester hours

Studies the origins of Western philosophy in ancient Greece. Examines Plato's philosoph-

ical writings in light of pre-Socratic speculation on one hand and in terms of Aristotle's criticisms and developments on the other.

28.224 Descartes to Kant

Spring 3 semester hours

Examines the writings of the 17th and 18th century philosophers: Descartes, Hobbes, Locke, Berkeley, Hume, Kant, and others. Topics include: the nature of reality, the sources and limits of knowledge, the relation between mind and body, and the possibility of a rational basis for religious belief.

28.228 Existentialism Springleven-numbered years

3 semester hours

Studies the writings of philosophers and theologians such as Kierkegaard, Nietzsche, Husserl, Sartre, and Tillich. Major themes include human subjectivity, human freedom, alienation, and meaning.

28.229 Contemporary Philosophy Fall/odd-numbered years

3 semester hours

Examines 20th century philosophical movements. Emphasizes the relation between language and philosophy, particularly views about truth, free will, the nature of morality and religion, and the nature of mind.

28.290 Medical Ethics

3 semester hours

Investigates moral issues that arise in such medical contexts as human experimentation, death and dying, medical care and its distribution, genetic engineering, and the definition of health and illness.

28.292 Contemporary Moral Problems 3 semester hours

Investigates some of the major contemporary (and perennial) moral problems: abortion and the rights of the fetus; pornography and its control; crime and its punishment; obedience to laws; discrimination based on race and sex; decision-making procedures; social justice; drugs, suicide, and euthanasia; freedom and its limits.

28.294 Ethics, Politics, and Public Policy 3 semester hours

An examination of normative, descriptive, and metaethical approaches employed by politicians and policy makers in confronting issues of responsibility and choice in public programs and policies. Focuses on the ethical problems and responses in civic life and emphasizes the ways alternatives impact on society.

28.295 Business Ethics Spring/even-numbered years

3 semester hours

Review of moral canons in relation to business practice. Moral concepts are applied in analyzing situations. Utilitarianism, Kantianism, and contemporary Egalitarianism are introduced as aids in decision making. General principles and concrete cases considered.

28.303 Philosophy of Science Fall/even-numbered years

3 semester hours

Analyzes the logic of inquiry in the natural and social sciences; the nature of scientific explanation, problems of causality, measurement, prediction, and verification. Considers case studies, such as evolutionary theory.

28.304 Philosophy of the Social Sciences Spring/odd-numbered years

3 semester hours

Examines philosophical problems in the social sciences including objectivity, classification, explanation, the nature of laws, and the nature of social facts.

28.305 Philosophy of Law Fall/even-numbered years

3 semester hours

Examines the theoretical background of the law and legal systems. Encourages students to develop their own views about the proper use of the law. Topics include the concepts of "law" and "legal system," limits of the law, and justification of punishment.

28.306 Philosophy of Religion

3 semester hours

Presents a critical analysis of the origins and nature of faith. Emphasizes types of religion, evidence supporting religious belief, and problems in and challenges to religion.

28.307 Contemporary Political Philosophy

Fall/odd-numbered years

3 semester hours

Studies the nature of the good and just state. What are the limits and powers of the state? Investigates competing theories of neo-Aristotelianism, utilitarianism, contractarianism, libertarianism, Marxism, and anarchism. Important questions concerning the obligations of an individual citizen to the state are also addressed.

28.308 Feminist Philosophy

3 semester hours

Explores the major trends in feminist philosophy including liberal, Marxist, socialist, radical, and psychoanalytic approaches. Explores such questions as whether women's experience differs from men's, and the extent to which male domination informs woman's experience. Considers recent feminist attempts to articulate an emancipating standpoint.

28.350 Environmental Ethics

3 semester hours

Surveys attitudes towards nature, our relationship to it, the role of technology, and discusses the ethical dimensions of the environmental crisis.

28.351 Theory of Knowledge Spring/odd-numbered years

3 semester hours

Inquires into the problem of knowledge, certainty, and skepticism. Reviews theory of perception; discusses concepts of meaning and truth.

28.352 Minds, Brains and Computers Fall/even-numbered years

3 semester hours

Explores the philosophical foundations of the interdisciplinary field of cognitive science. Topics discussed include contemporary scientific solutions to the mind-body problem, the possibility of artificial intelligence, and the nature and success of cognitive explanations in psychology.

28.470 Independent Study in Philosophy 3/6 semester hours

Provides for individual study of a particular

philosophical problem under the guidance of the staff. Emphasizes independent research on topics selected by the student and the faculty member. Course may be taken twice. Prerequisite: 6 semester hours of philosophy See section on *Independent Study* on page 10.

28.471 Seminar

3 semester hours

Studies selected problems in philosophy.

Faculty Credentials

RICHARD J. BROOK

B.A., Antioch College; M.A., Columbia University; Ph.D., New School, N.Y.C.

MARJORIE A. CLAY

B.A., University of Oklahoma; M.A., Northwestern University; Ph.D., State University of New York at Buffalo

LEE COOKE

B.A., Ph.D., University of Virginia

OLIVER J. LARMI

A.B., Dartmouth College; Ph.D., University of Pennsylvania

WENDY LEE-LAMPSHIRE

B.A., University of Colorado; Ph.D., Marquette University

SCOTT C. LOWE

B.A., College of William and Mary; M.A., Ph.D., University of Virginia

Department of Physics

College of Arts and Sciences

Chairperson

P. James Moser

Professors

David J. Harper P. James Moser M. Gene Taylor

Associate Professors

Jack G. Couch P. Joseph Garcia Stephen G. Wukovitz

Assistant Professors

Christopher Bracikowski Gunther L. Lange Peter C. Stine

Degree Programs

Bachelor of Arts in Physics, Bachelor of Science in Physics, Bachelor of Science in Health Physics

The bachelor of arts program requires 54 semester hours for a major in physics. The bachelor of science program requires 63 semester hours for a major in physics. The bachelor of science program requires 68 semester hours for a major in health physics.

Goals and Objectives

The Bachelor of Arts in Physics provides a background suitable for direct entry into employment by industry or government. It meets the specifications for qualification as a physicist of the Civil Service Commission. This degree also provides the qualifications necessary for admission to graduate study in most colleges and universities offering master of science and doctor of philosophy degrees in physics and in other specialized interdisciplinary fields. Students may combine the physics degree with an engineering degree through the engineering/liberal arts program offered by Bloomsburg University in cooperation with The Pennsylvania State University or Wilkes University (See section on Engineering and Liberal Arts on page 185.)

The Bachelor of Science in Physics provides the opportunities and qualifications of the Bachelor of Arts degree, with greater emphasis on the area of specialization.

The profession of health physics is devoted to the protection of people and their environment from potential radiation hazards, while at the same time making it possible for our advancing civilization to enjoy all the benefits resulting from the controlled use of radiation. Health physicists are employed in industrial laboratories, medical centers, and government agencies.

The Bachelor of Science in Health Physics provides a sound background of courses in physics, mathematics, chemistry and biology, as well as specialized courses in health physics. Modern laboratories introduce students to state-of-the-art instrumentation and advanced techniques of measurement. An internship course provides experience of the application of health physics in industrial, medical; or government environments. The program provides the qualifications needed for direct entry into the practicing profession or into graduate school for greater specialization in health physics.

Bachelor of Arts in Physics

Required courses: Physics 54.211, 54.212, 54.302, 54.310, 54.314, 54.400; 12 semester hours chosen from other physics courses numbered above 300; Mathematics 53.125, 53.126, 53.225, 53.322; Computer Science 56.210; Chemistry 52.115, 52.216.

Bachelor of Science in Physics

Required courses: Physics 54.211, 54.212, 54.302, 54.310, 54.314, 54.400, 54.450; 15 semester hours chosen from other physics courses numbered above 300; Mathematics 53.125, 53.126, 53.225, 53.322; Computer Science 56.210; 3 semester hours chosen from Mathematics 53.226, 53.314, or Computer Science 56.373; Chemistry 52.115, 52.216.

Bachelor of Science in Health Physics

Required courses: Physics 54.211, 54.212, 54.310, 54.315, 54.320, 54.330, 54.360, 54.420, 54.460, 54.470; Mathematics 53.125, 53.126, 53.225, 53.241, 53.322; Computer Science 56.210; Chemistry 52.115, 52.216; Biological and Allied Health Sciences 50.110, 50.120, 50.411.

Minor in Physics

Required courses: Physics 54.211, 54.212, 54.315, 54.316, 54.317. These courses must be taken in sequence.

Requirements for the Bachelor of Science in Education with a concentration in physics are found in the section on Secondary Education on page 176.

For more information on the associated engineering program, see the section on Engineering and Liberal Arts on page 185.

PHYSICS (Code 54)

54.101 Basic Physical Science

3 semester hours

An introductory integration of concepts and principles from chemistry, physics, and astronomy, with consideration for the nature of scientific thought and the interaction of science with human and community concerns. For posscientists.

54.103 Principles of Physical Science 3 semester hours

An integrated physical science course emphasizing laboratory experience. Provides an introduction to the basic concepts of physical science by studying such topics as the structure and properties of matter, motion and forces, energy, light and sound, electricity and magnetism, and astronomy. For elementary education majors. Four hours class/laboratory per week.

54.104 Elementary Electronics

3 semester hours

An introduction to basic electronics that

gives students in nonphysical science areas some theoretical and practical knowledge of electronic circuits, instruments, and devices. No experience of physics or electronics required.

54.105 Energy: Sources and Environmental Effects

3 semester hours

Explains energy in elementary scientific terms and examines present national and international energy situations in regard to sources, utilization, and environmental effects. Surveys fossil fuels and nuclear, solar, geothermal, and other energies with respect to availability and promise for the future.

54.106 The Science of Sound

3 semester hours

Provides an introduction to the principles of sound and its reproduction for students in nonphysical science disciplines. Knowledge of basic algebra required, but no experience in physics or electronics necessary.

54.107 Applied Physics for Health Sciences

Spring 4 semester hours Studies selected principles of physics with applications to the processes and instrumentation of medical technology. Examines mechanics, fluids, kinetic energy and heat, optics, electricity and magnetism, electronics, atomic structure, radiation, and data acquisition and readout. Six hours per week: 3 classes, 3 laboratories.

54.110 Introduction to Astronomy 3 semester hours

Surveys the physical state of the universe and the variety of objects it comprises: solar system, stars, galaxies. Provides a descriptive account of the present state of our knowledge of the cosmos and an understanding of how such knowledge is obtained. Intended for nonscience majors.

54.111 Introductory Physics I

Fall 4 semester hours Presents an approach to selected topics such as mechanics, heat, kinetic theory, molecular theory of gases, wave motion, and sound. Not intended for students specializing in physics or chemistry. Six hours per week: 3 classes, 3 laboratories.

54.112 Introductory Physics II

Spring 4 semester hours Studies electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, nuclear physics and particle physics. Continuation of 54.111. Six hours per week: 3 classes, 3 laboratories.

Prerequisite: 54.111 or consent of instructor

54.210 Observational Astronomy

Spring 3 semester hours
Provides hands-on experience in observations of the night sky. Focuses on the interpretation of astronomical measurements, including the students' own telescopic observations of stars, planets, nebulae, and other
objects. Open to non-science majors.
Prerequisite: 54.110 or consent of instructor

54.211 General Physics I

4 semester hours

An introduction to physics using calculus. Studies mechanics, the physics of fluids, kinetic theory, heat, and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week: 3 classes, 3 laboratories.

Prerequisite: Mathematics 53.125 or concurrent registration

54.212 General Physics II

4 semester hours

Studies wave motion, sound, geometrical and physical optics, electricity, and magnetism. Continuation of 54.211. Six hours per week: 3 classes, 3 laboratories.

Prerequisites: Mathematics 53.126 or concurrent registration; 54.211, or 54.111 with consent of instructor

54.301 Mechanics: Statics

Fall/alternate years 3 semester hours

Introduces the fundamentals of statics, with an emphasis on vector methods, at a level appropriate for physical science majors and for students considering a career in the engineering field.

Prerequisites: Mathematics 53.126 or concurrent registration; 54.211, or 54.111 with consent of instructor

54.302 Mechanics: Dynamics

Spring/alternate years 3 semester hours

Introduces the fundamentals of dynamics, with an emphasis on vector methods, at a level appropriate for physical science majors and for students considering a career in an engineering field.

Prerequisites: Mathematics 53.225 or concurrent registration; 54.212, or 54.112 with consent of the instructor

54.310 Modern Atomic Physics

Fall 3 semester hours

Presents some of the basic concepts and phenomena that constitute modern physics, including studies of the quantum nature of radiation, atomic structure and spectra, X-rays, relativity, wave-particle duality, the un-

certainty principle, and a brief introduction to nuclear physics and radioactivity. Prerequisite: 54.212 or 54.112 with consent of instructor; Mathematics 53.126

54.314 Electricity and Magnetism Alternate years 3 semester hours Studies electric and magnetic fields and potentials, electric and magnetic properties of

matter, electrodynamics, and electromagnetic waves.

Prerequisites: 54.212, or 54.112 with consent of instructor: Mathematics 53.225

54.315 Electronics

Alternate years 4 semester hours Presents the theory and application of semiconductors with special emphasis on circuitry. Studies basic electronic instrumentation as related to the gathering, processing, and display of scientific data in any discipline. Six hours per week: 3 classes, 3 laboratories.

Prerequisite: 54.112, or 54.212

54.316 Digital Electronics

Alternate years 3 semester hours

An introduction to the techniques and devices of digital electronics. Includes practical experience of the building and testing of digital circuits. Supplies the background necessary for the understanding of microprocessors and computer circuits.

Prerequisite: Junior standing or consent of instructor

54.317 Computer Electronics

Alternate years 3 semester hours An introduction to the electronics and operation of digital computers. Intended for students with a background in digital circuitry. Includes practical experience of the operation and interfacing of microprocessors and other devices.

Prerequisite: 54.316 or consent of instructor

54.318 Optics

Alternate years 3 semester hours Presents a combination of geometrical optics including lens theory with physical (wave)

optics including diffraction, interference, polarization, lasers, and coherent light. Prerequisite: 54.212, or 54.112 with consent of the instructor

54.320 Nuclear Radiations I

Alternate years 2 semester hours Presents a laboratory-oriented course using modern nuclear electronics and detectors for measuring and analyzing nuclear radiations. Four hours per week: one class, 3 laboratories. Prerequisite: 54.310 or concurrent registration

54.330 Radiation Physics

Alternate years 3 semester hours Presents properties and models of nuclei, radioactive decay, radiation and its interaction with matter, and nuclear applications. Prerequisite: 54.310 or concurrent registration

54.360 Health Physics

Alternate years 3 semester hours Presents a study of the principles of health physics, including biological effects of radiation, dosimetry, radiation measurement and radiation protection.

Prerequisite: 54.310 or concurrent registration

54.400 Advanced Physics Laboratory Alternate years 2 semester hours

Presents the basic tenets of lab work in physics, involving considerations of experimental error, proper research and preparation of an experiment. Includes experiments primarily from the areas of atomic physics, electricity, magnetism, and optics. Four hours per week: one class, 3 laboratories.

Prerequisites: 54.310, 54.314

54,420 Nuclear Radiations II

Alternate years 2 semester hours A laboratory course which presents advanced techniques of nuclear measurement, and includes applications involving environment monitoring and health physics. Four hours per week: one class, three laboratories.

Prerequisite: 54.320 or consent of instructor

54.421 Solid State Physics

Alternate years 3 semester hours Examines physical properties of matter in the solid state. Reviews basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semiconductors, band theory and the p-n junction. Studies dielectric and magnetic properties of matter.

Prerequisites: 54.310, 54.314; Mathematics

53.225

54.422 Thermodynamics

Alternate years 3 semester hours Presents concepts and principles of classical thermodynamics, thermodynamics of simple systems, introduction to kinetic theory, and statistical thermodynamics.

Prerequisites: 54.212 or 54.112 with consent of instructor: Mathematics 53.225

54.450 Introduction to Quantum Mechanics

Alternate years 3 semester hours Examines the development and interpretation of Schroedinger's wave mechanics, its mathematical formalism, and the results and predictions of this quantum theory as applied to one-dimensional systems, the hydrogen atom, and multi-electron atoms.

Prerequisites: 54.310; Mathematics 53.225

54.460 Applied Health Physics

Alternate years 3 semester hours Presents advanced topics involving health physics principles and radiation protection standards as applied to science, industry, and medicine.

Prerequisite: 54.360 or consent of instructor

54.490 Seminar in Physics

1 semester hour

A selected topic in physics is studied, and prepared in a form suitable for presentation. Student attends and participates in physics seminars and makes a presentation in the same semester of enrollment in the course.

54.491 Independent Study in Physics

1-3 semester hours

Investigates an area of special interest and value to the student, under the direction of a faculty member, following a plan approved in advance by the department chairperson. May be partly interdisciplinary and may involve limited experimental work.

54.493 Independent Research

1-3 semester hours

Provides for an application of theoretical and/or experimental research methods to a special problem. May be interdisciplinary. Requires the preparation of a report and a plan, approved in advance by the department chairperson, which is acceptable to the student and the supervising faculty member.

54.494 Honors Independent Study in Physics

3 semester hours

Provides the qualified student with an opportunity to participate in an advanced experimental or theoretical investigation of a current problem in physics, under the supervision of a physics faculty member having expertise in the student's proposed research area.

Faculty Credentials

CHRISTOPHER BRACIKOWSKI

B.S., University of Rochester; Ph.D., Georgia Institute of Technology

JACK G. COUCH

B.A., Utah State University; M.A., Vanderbilt University; Ph.D., Texas A & M University

P. JOSEPH GARCIA

B.S., Kent State University; M.S., New Mexico Highlands University; D.Ed., The Pennsylvania State University

DAVID J. HARPER

B.Sc., Ph.D., University of Nottingham, England

GUNTHER L. LANGE

B.S., Ph.D., The Ohio State University

P. JAMES MOSER

B.S., M.S., Ph.D., The Pennsylvania State University

PETER C. STINE

B.A., Wesleyan University; Ph.D., The Pennsylvania State University

M. GENE TAYLOR

B.S., Muskingum College; M.S., Ph.D., Brown University

STEPHEN G. WUKOVITZ

B.A., M.A., Montclair State College

Department of Political Science

College of Arts and Sciences

Chairperson

George Agbango

Associate Professor Iames W. Percev **Assistant Professors**

George Agbango Marla Brettschneider Gloria T. Cohen Richard L. Micheri

Degree Program

Bachelor of Arts in Political Science

A total of 30 semester hours is required for a major in political science.

Goals and Objectives

The department offers courses in all the major subfields of political science for students who wish to acquire a thorough understanding of the art, science, theories, processes, and structures of governments and politics.

Introductory courses are designed for both majors and non-majors. The importance of government and politics (locally, regionally, nationally, and internationally) clearly points to political science as a critical element in the liberal education of any university student.

Advanced courses are offered for students who need in-depth study and specialized subject matter to serve as a foundation for careers in politics, law, public administration, community service, international relations, criminal justice, communications, or teaching.

All courses attempt to develop the student's ability to read carefully, communicate effectively, think critically, analyze logically, and research thoroughly. A balance is sought between abstract concepts and theories on the one hand and concrete structures, processes, and applications on the other. Field work and internships give students an opportunity to apply what they have learned in the classroom to the realities of contemporary society.

Required Courses

Required courses total 12 semester hours and include the following four courses in political science: 44.120, 44.160, 44.210, and 44.280.

Elective Courses

Select a total of 18 semester hours, 12 semester hours of which must be accrued from upper division courses, i.e., at the 300 level or above.

Minor in Political Science

A total of 18 semester hours is required for a minor in political science. There are no required courses. Students should consider building a minor around one of the four subfields of political science, namely, U.S. Government, Comparative Government, International Politics, and Political Theory. Contact the Department of Political Science for details.

POLITICAL SCIENCE (Code 44)

44.101 Elements of Political Science 3 semester hours

Uses the procedures of political science to study power and examines the processes of politics and the practices of governments, the performance of and the pressures on the political system. For non-majors.

44.108 Contemporary Political Ideologies 3 semester hours

An introduction to those political beliefs that shape contemporary politics: nationalism, liberalism, conservatism, capitalism, socialism, feminism, religious fundamentalism, populism.

44.120 United States Government 3 semester hours

Introduces government and politics in the United States, emphasizing constitutional development, political development, civil rights, parties, elections, pressure groups, the Congress, the president, courts, and contemporary problems, such as foreign affairs, defense, inflation, unemployment, energy, and poverty.

44.160 Nations, States, and Governments

Presents a comparative study of the governance of countries or nation-states in selected developed and less-developed regions of the world.

44.181 Contemporary Issues in World Politics

3 semester hours

An introduction to international politics through an examination of such critical problems as war and peace, East-West relations, nuclear disarmament, nation-building, and revolution.

44.207 Ethics, Politics, and Public Policy 3 semester hours

Examination of normative, descriptive, and metaethical approaches employed by politi-

cians and policymakers in confronting issues of responsibility and choice in public programs and policies. Focuses on ethical problems and responses in civic life and emphasizes the ways alternatives impact on society.

44.210 Introduction to Political Theory 3 semester hours

An introduction to fundamental political concepts such as liberty, justice, equality, power, and authority, as well as the main ideas of some representative political philosophers from Socrates to the present.

44.244 Introduction to Criminal Justice 3 semester hours

Provides students with a comprehensive survey and basic understanding of the role and function of the criminal justice field. Focuses on crime and criminal law, the police, law enforcement, courts, corrections, and juvenile justice.

44.280 Introduction to International Relations

3 semester hours

Examines sources of international conflict and cooperation, power politics in the international arena, problems of collective security, the settlement of disputes, diplomacy, revolution, and international law.

44.303 Politics and the Arts

3 semester hours

Surveys painting, music, films, poetry, and novels to show the relationship between these media and political concepts, philosophies, and problems.

44.322 Political Violence

3 semester hours

Surveys individual, group, and mass political violence, concentrating on causes and manifestations. Studies positive and negative effectiveness of political violence with the object of placing the phenomena in meaningful historical and contemporary contexts.

44.326 Parties, Groups, and Public Opinion

3 semester hours

Examines the development of political parties in the United States; elections, voter behavior, and political participation; and the role of interest groups and political propaganda.

44.331 Legal and Political Aspects of

3 semester hours

Describes and analyzes the legal environment surrounding business, concentrating on the role of government, especially the courts, in affecting business relationships. The impact of administrative regulatory agencies and government policies, such as affirmative action, are analyzed.

44.336 Public Administration Theory 3 semester hours

Includes leadership/followership and motivation/manipulation propositions on personnel management; conflict, competition, and cooperation propositions about budgeting; and information-communication propositions in relation to planning.

44.363 Soviet and Post Soviet Politics 3 semester hours

Studies the history, development, ideology, institutions, and policies of the Soviet political system.

44.366 Political Systems of Western Europe

3 semester hours

Democracy as practiced in Western Europe; the politics and government of Great Britain, France, and Germany; comparisons with the United States; principles of comparative analysis.

44.371 Political Systems - Africa

3 semester hours

Examines problems of newly independent states, the struggle for independence, attempts to create national unity and create political stability, economic and political development, the role of the military in politics, and politics in the Republic of South Africa.

44.373 Government and Politics in China and India

3 semester hours

Studies politics and government in selected states with an emphasis on the forces which shape domestic and foreign politics and processes.

44.376 Government and Politics of the Middle East

3 semester hours

Introduces the political history and governments of particular states in the region and considers their interactions regionally and internationally. Considers in particular the importance of Islam in politics, the Arablsraeli conflict, the Iranian revolution, the Iraqi wars.

44.405 Development of Political Thought

3 semester hours

A chronological survey from the ancient Greeks to the present. Examines the ideas of seminal political thinkers as they grapple 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 a historical, chronological way but reworking them to show their relation and relevance to actions and institutions. Includes the main ideas of the leading political thinkers in America from the colonial period to the present.

44.412 Scope, Approaches, and Methods of Political Science

3 semester hours

Analyzes the various approaches and methods currently in use in political science.

44.437 Public Administration Applications

3 semester hours

Uses readings, cases, and simulations and requires a term paper based on a government agency's data.

44.438 Public Personnel Administration 3 semester hours

Public service as a career; personnel needs of national, state, 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, and constitutional issues. Examines problem areas and proposals for reform.

44.446 Constitutional Law I

3 semester hours

Analyzes the evolution, structure, and function of the Supreme Court, concentrating on a case-study approach to the court's interpretations of the powers of the president, Congress, and federal-state relationships.

44.447 Constitutional Law II

3 semester hours

Studies decisions of the Supreme Court as they relate to the individual and the government, concentrating on nationalization of the Bill of Rights, rights of persons accused of crime, equal protection, and voting rights.

44.448 The Judicial Process

3 semester hours

Studies policymaking by the federal courts, primarily the Supreme Court. Analyzes the nature of the policymaking function as well as the impact of policy-making on American society.

44.452 State and Local Government 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.

44.456 Public Policy

3 semester hours

Studies the institutional and political context of policy formation and implementation; the process for designing and administering government programs; and the techniques of analysis and evaluation that are or could be employed in formulating policy objectives, choosing from among alternatives, and assessing performance. The approach is pragmatic, applied, and interdisciplinary.

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, policymaking machinery, and implementation matters.

44.464 Government and Politics of Ireland

3 semester hours

A survey of historical, social; cultural, and religious developments in Ireland with concentrated 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 Organization

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

1-6 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 consultations between instructor and student. Designed for group or individual study.

44.492 Seminar in Government and Politics

3 semester hours

Examines problems in government and politics in an attempt to review and unify theories and methods of political science. Emphasizes individual research projects.

44.496 Field Experience in Political Science

1-6 semester hours

Research beyond the classroom in applied areas of political science. May be taken to prepare for, or to follow-up, the "Internship" course. The student is supervised by an instructor. A paper is required.

44.497 Internship in Political Science

1-15 semester hours

Provides for on-site work experience and training designed to give an opportunity to apply the theoretical and descriptive knowledge acquired in the classroom, or the "Field Experience" course, to the political, legal, organizational, and administrative operations of contemporary institutions. The student is supervised by an instructor and an on-site person. A paper is required.

Faculty Credentials

GEORGE AGBANGO

Specialist Certificate (Geography), University of Cape Coast, Ghana; M.P.A., Atlanta University; Ph.D., Clark Atlanta University

MARLA BRETTSCHNEIDER

B.A., State University of New York at Binghamton; M.A., Ph.D., New York University

GLORIA T. COHEN

B.S., M.P.A., Temple University

RICHARD L. MICHERI

B.A., Fordam University; M.A., Columbia University

JAMES W. PERCEY

A.B., University of Pennsylvania; M.A., Rutgers University

Department of Psychology

College of Arts and Sciences

Chairperson

J. Calvin Walker

Professors

John S. Baird Jr. Steven L. Cohen James H. Dalton Jr. Michael W. Gaynor Alex J. Poplawsky Constance J. Schick Eileen C. Astor-Stetson J. Calvin Walker

Associate Professors

Winona J. Cochran L. Richard Larcom

Assistant Professors

Brett L. Beck Kambon Camara Julie M. Kontos Marion G. Mason Joseph G. Tloczynski John E. Waggoner

Degree Program

Bachelor of Arts in Psychology

A total of 36 semester hours is required for a major in psychology.

Goals and Objectives

The Department of Psychology is committed to providing a strong undergraduate program for psychology majors and minors and to providing support courses for the university's general education curriculum. All classes for the major are taught by faculty who have earned doctorates in their specialty. Students in the major are expected to demonstrate a firm grounding in basic statistics and in experimental methodology and research, thus allowing them to excel in advanced theory and content courses. A degree in psychology from Bloomsburg University gives quality students an appropriate background for graduate study and research in all areas of the discipline and also offers qualified students a broad range of career possibilities with the potential for employment in settings such as: hospitals, clinics, counseling centers, nursing homes, community human services agencies, educational institutions, research organizations, or businesses.

The program of study in psychology requires the courses specified below:

Freshman/Sophomore years:

Core courses (18 semester hours)

48.101, 48.160, 48.281, 48.282, and two courses from 48.211 or 48.212, 48.253,

48.311

Note: 48.281 and 48.282 must be taken concurrently.

11. Junior/Senior years:

Content courses (12 semester hours)

two course from 48.360, 48.375, 48.380

one course from 48.335, 48.436

one course from 48.321, 48.350, 48.356, 48.451, 48.453, 48.463, 48.476

III. Senior year:

Capstone courses (6 semester hours) two courses from 48.341, 48.401, 48.406, 48.464, 48.466, 48.497

Minor in Psychology

A minimum of 18 semester hours in psychology as specified: 48.101, 48.160 (or Economics 40.346 or Sociology 45.260 or Mathematics 53.141), 48.281, and 9 semester hours, 6 of which must be at the 300 or 400 level.

PSYCHOLOGY (Code 48)

48.101 General Psychology

3 semester hours

Studies psychology as a system of scientific inquiry into the nature and behavior of humans. Presents major concepts, principles, and processes concerned with human functioning in individuals and social settings.

48.131 Psychology of Adjustment

3 semester hours

Examines the personal and social meaning of adjustment. Presents an operational approach to mental health including such concepts as anxiety, frustration, conflict, aggression, and defense.

48.160 Basic Statistics

3 semester hours

Introduces fundamental statistical concepts and principles providing a foundation for research methodology for students who need not be mathematically inclined. Discusses computation, interpretation, and application of commonly used descriptive, correlation, and inferential statistical procedures for analyzing data.

48.210 Life-Span Psychology

3 semester hours

Examines the psychology of human development from conception to death. Discusses traditional topics and issues in developmental psychology such as cognition and personality, but within a life-span developmental perspective.

Prerequisite: 48.101

48.211 Child Psychology

3 semester hours

Studies normal development and the interrelationships among various aspects of biological, cognitive, personality, and social factors. Emphasizes prenatal to adolescent development.

Prerequisite: 48.101

48.212 Adolescence

3 semester hours

Studies developmental, personal, and social issues confronting adolescents as they emerge from childhood and strive for adulthood.

Prerequisite: 48.101

48.251 Psychological Foundations of Education

3 semester hours

Examines principles of psychology as applied to the classroom. Emphasizes learning processes as affected by environmental, experiential, and developmental factors.

Prerequisite: 48.101

48.253 Social Psychology

3 semester hours

Studies interpersonal behavior with emphasis on affiliation, interpersonal perception and attraction, group behavior and conformity, attitude change, and compliance.

Prerequisite: 48.101

48.254 Psychological Aspects of Social Issues

3 semester hours

Examines the application of psychological theories and techniques to existing social issues and their relationship to alternative ethical viewpoints regarding social issues selected by the instructor for study.

Prerequisite: 48.101

48.281 Experimental Psychology: Methodology

3 semester hours

Introduces experimental design, statistical analysis, and issues of control and confounding. Surveys classical and learning experi-

mentations as well as issues in social, developmental, educational, and clinical psychology from an experimental perspective.

Prerequisites: 48.101 and 48.160 (with a minimum grade of C in each)

48.282 Experimental Psychology: Applications

3 semester hours

Surveys the application of designs and statistics to problems encountered in psychology. Addresses ethical issues in experimentation, the value of experimentation, and the limitations of research designs. Emphasizes discussion and application of various research strategies to contemporary and traditional problems in psychology.

Prerequisites: 48.101 and 48.160 (with a minimum grade of C in each), and 48.281 or concurrently taking 48.281

48.311 Adulthood and Aging

3 semester hours

Studies the development of adults in our culture. Includes topics on the effects of social environment on aging, special problems of aging, sex differences during adulthood, vocational, marital, and familial developments, and psychology of death and dying. Emphasizes human behavior between young adulthood and senescence with emphasis on the aging process.

Prerequisite: 48.101

48.321 Psychological Tests and Measurements

Fall 3 semester hours Introduces the logic of psychological measurement including the applied and practical aspects of psychological testing with emphasis on reliability, validity, and test norms. Provides background for test evaluation. Prerequisite: 48.101, 48.160, or consent of the instructor

48.335 Abnormal Psychology

Spring 3 semester hours Surveys the description, causation, prevention, and treatment of maladaptive behavior, as well as the ethical aspects of these issues. Considers biological, psychological, and social factors.

Prerequisites: 48.101, 48.160, 48.281 or consent of the instructor

48.341 Theory and Practice of Academic Psychology

3 semester hours

Sharpens and expands knowledge of the basic principles of psychology. Provides an intensive review of the content taught in General Psychology and requires students to lead discussion groups.

Prerequisites: Junior standing; 48.101, 48.160, 48.281, 48.282 and consent of the instructor

48.350 Psychology of Sex and Gender 3 semester hours

Examines the theoretical and research issues in psychological experiences of males and females. Views gender role development and implications for the daily lives of men and women from historical, biological, psychoanalytic, learning, sociological, and anthropological perspectives.

Prerequisites: 48.101, 48.160, and 48.281

48.356 Psychology of Motivation Fall 3 semester hours

Surveys the fundamental determinants of human and animal activities. Studies theories, research methodologies, and experimental evidence related to the activation and the direction of behavior.

Prerequisites: 48.101, 48.160, 48.281 or consent of the instructor

48.360 Cognitive Psychology

Spring 3 semester hours Examines the major theoretical perspectives and research in the area of cognition and presents the ways in which mental processes such as memory, perception, language, and problem solving may be empirically studied. Prerequisites: 48.101, 48.160, and 48.281

48.375 Psychology of Learning

Fall 3 semester hours

Examines the theoretical and experimental

bases of learning in animal and human behaviors. Studies situational and drive factors affecting learning, stimulus generalization, and discrimination, retention, and forgetting.

Prerequisites 48.101,48.160,48.281, 48.282, or consent of the instructor

48.380 Physiological Psychology

Spring 3 semester hours Studies the relationship between psychological processes and physiological activity. Reviews neurological and biochemical bases of behavior with emphasis on the synergistic functions of the nervous system, sense organs, and glandular system.

Prerequisites: 48.101, 48.160, 48.281, 48.282, or consent of the instructor

48.401 History of Psychology

3 semester hours

Studies the historical development of modern psychology and compares present-day models of behavior within an historical framework.

Prerequisites: 48.101 and Junior standing

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.

Prerequisites: 48.101 and consent of the instructor

48.436 Theories of Personality

Fall 3 semester hours

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, 48.160, 48.281, or consent of the instructor

48.439 Introduction to Clinical Psychology

Spring 3 semester hours
Surveys clinical psychology and the role of

the clinical psychologist in community and hospital mental health programs, clinical assessment, and diagnosis. Examines concepts in and models of psychotherapy.

Prerequisites: 48.101, 48.335 or 48.436, or consent of the instructor

48.451 Laboratory Training in Group Processes

Spring 3 semester hours Offers on-going experience on topics including norm-setting, leadership, problem solving, role playing, cooperation/competition,

ing, role playing, cooperation/competition, and decision making. Class size limited to 20 students.

Prerequisites: 48.101 and consent of the instructor

48.453 Organizational Psychology

Spring 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 climates, and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations. Prerequisites: 48.101, 48.253, and consent of the instructor

48.463 Personnel Psychology

Fall 3 semester hours

Surveys behavioral principles, techniques of investigation, recent research literature, and practice in the application of psychological knowledge relevant to a wide range of personnel management problems. Considers the impact of the EEO guidelines for personnel management in the areas of recruitment, selection, promotion, training, and performance appraisal.

Prerequisites: 48.101, 48.160 or 40.346 and Junior standing (48.321 recommended)

48.464 Advanced Experimental Design 3 semester hours

Presents an advanced consideration of the planning, conduct, and evaluation of re-

search in the behavioral and biological sciences, employing parametric and nonparametric statistics. Emphasizes inferential statistics, design, analysis, interpretation, and computer utilization.

Prerequisites: 48.101, 48.160, 48.281, 48.282, or consent of the instructor

48.466 Independent Study in Psychology 3 semester hours

Provides for the study of a topic via review and research of technical psychological literature or empirical manipulation of variables in the field or laboratory under supervision of a psychology faculty member. Documents results in a written report.

Prerequisites: Consent of the instructor and departmental approval

48.476 Principles of Behavior Modification

3 semester hours

Studies the application of learning principles to change behavior in both individual and group settings.

Prerequisite: 48.101 and 6 semester hours in psychology

48.497 Practicum in Psychology 1-15 semester hours

Provides application of psychological knowledge through study, observation, and practice in a community setting. May be repeated for a total of 15 semester hours.

Prerequisite: Consent of the instructor

Faculty Credentials

JOHN S. BAIRD JR.

B.A., University of Virginia; M.S., Ph.D., North Carolina State University

BRETT L. BECK

A.A., James H. Faulkner State Junior College; B.A., University of West Florida; Ph.D., University of Alabama

KAMBON CAMARA

B.S., Florida A & M University; M.S., University of Wisconsin-Stout

WINONA I. COCHRAN

A.S., Dalton Junior College; B.S. University of Tennessee; M.S., Ph.D., University of Georgia

STEVEN L. COHEN

B.A., Oakland University; Ph.D., University of Maine

JAMES H. DALTON IR.

B.A., King College; M.A., Ph.D., The University of Connecticut

MICHAEL W. GAYNOR

B.A., Muhlenburg College; M.S., Lehigh University; Ph.D., Colorado State University

JULIE M. KONTOS

B.A., M.S., University of Georgia

L. RICHARD LARCOM

B.S., M.A., Ph.D., The Ohio State University

MARION G. MASON

B.S., Southern Nazarene University; M.A., Ph.D., The Ohio State University

ALEX J. POPLAWSKY

B.S., University of Scranton; M.S., Ph.D., Ohio University

CONSTANCE J. SCHICK

B.B.A., Angelo State University; Ph.D., Texas Technological University

EILEEN C. ASTOR-STETSON

A.B., Douglass College-Rutgers University; Ph.D., Vanderbilt University

JOSEPH G. TLOCZYNSKI

B.A., Bloomsburg State College; M.A., West Chester University; Ph.D., Lehigh University

IOHN E. WAGGONER

B.A., Shippensburg State College; M.S., Ph.D., The Pennsylvania State University

J. CALVIN WALKER

B.A., Muskingum College; Ed.M., Ed.D., Temple University

Radiological Technology

School of Health Sciences, College of Professional Studies

Program Coordinator

James E. Cole, professor, Department of Biological and Allied Health Sciences

Degree Program

Bachelor of Science

Goals and Objectives

The programs in allied health sciences encompass health areas in which individuals support, aid, and increase the efficiency and effectiveness of other health professionals by becoming a contributing member of a health care team. These programs combine natural science and liberal arts education with clinical instruction. In general, students who complete any of the programs enter their professions immediately. Others may select postgraduate education in health care. Central to most allied health programs, especially the clinical portion, is satisfactory completion of the clinical standards, often referred to as the *Essentials*. These standards establish requirements related to curriculum, personnel, financing, resources, and records.

Program of Study

Radiological technologists are allied health professionals who have expertise in the operation of X-ray equipment and the preparation of patients for various diagnostic procedures. Recent trends indicate that many clinically educated technologists pursue managerial or teaching roles within their disciplines. In order to meet the varying needs of radiological technologists, the program offers a means of entering Bloomsburg at an *advanced entry level*. Students select a group of courses comprising either a management emphasis or an education emphasis.

Students entering at this advanced level are awarded 30 to 60 semester hours for satisfactory completion of an AMA-approved program and the passing of the ARRT examination. It is assumed that most advanced level students will be part time and will require more than two years to complete the program. The required third and fourth year courses comprise an allied health core similar to that taken by other allied health majors. Although advanced entry is most common, other academic pathways exist for this program. For details, students should contact their adviser.

Professional Courses

Biological and Allied Health Sciences 50.173, 50.174; Chemistry 52.101; Physics 54.107; Psychology 48.101, 48.160 or Mathematics 53.141; Computer Science 56.110 or Computer and Information Systems 92.150; 4 semester hours required elective in biology.

Emphasis Courses

Select an emphasis in either management or education, both require a total of 15 semester hours in courses:

Management Emphasis

General Business 90.101, Accounting 91.220; Management 93.344, 93.345, and 93.346 or 93.445 or 50.282 (Special Topics, Health Care Leadership)

Education Emphasis

Educational Foundations 60.204, 60.251, 60.291, 60.311, and 60.393

Department of Sociology and Social Welfare

College of Arts and Sciences

Chairperson

I. Sue Jackson

Associate Professors

I. Sue Jackson Charles W. Laudermilch Dale L. Sultzbaugh

Degree Program

Bachelor of Arts in Social Welfare

A total of 46 to 54 semester hours is required for a major in social welfare.

Goals and Objectives

The Department of Sociology and Social Welfare offers a baccalaureate degree in social welfare which is accredited by the Council on Social Work Education. The primary program objective is to prepare students for the beginning level of professional social work practice with individuals, families, groups, organizations, and communities. The curriculum integrates basic social work knowledge with a liberal arts perspective.

Required Courses

Required courses for this degree program include: Social Welfare 45.133, 45.297, 45.334, 45.450, 45.452, 45.453, 45.497, 45.498, 45.211, 45.215, 45.260, 45.462, and 45.466; Biological and Allied Health Sciences 50.101; Economics 40.211; Political Science 44.120; Psychology 48.101 and 48.210, plus one additional three credit course in psychology.

For information about admission criteria and details on the course sequence, please see Associate Professor Dale L. Sultzbaugh, director of the social welfare program.

SOCIAL WELFARE (Code 45)

45.133 Introduction to Social Work and Social Welfare

3 semester hours

An orientation to the profession of social work and field of social welfare. Includes an examination of historical and current social work processes, values, and practices in various settings and with special population groups.

45.236 Child Welfare

3 semester hours

Examines child welfare services, issues, and the institutions which affect the social functioning of children. Course is not in the social welfare degree program.

45.297 Introductory Practice Experience in Social Welfare

3-6 semester hours

Exploratory practice experience for students

considering a social welfare major. Provides an overview of the agency system under the direction of a practice supervisor.

Prerequisite: 45.133

45.334 Social Work Practice with Individuals and Families

Fall 3 semester hours

Examines several orientations to problem solving with individuals and families. Emphasizes the essential knowledge, values, and interviewing skills for beginning social work practice.

Prerequisites: 45.133, 45.211, 45.215, 45.297; Psychology 48.101, 48.210; Biology 50.101

45.450 Social Work Practice with Small Groups

Fall 3 semester hours

Uses problem-solving interventions in small groups integrating social work knowledge, skills, and values.

Prerequisites: 45.133, 45.211, 45.215, and 45.297; Psychology 48.101, 48.210; Biology 50.101

45.451 Family Counseling

3 semester hours

Surveys major theoretical models for family assessment and intervention with primary emphasis on ecological systems. Working knowledge of rudimentary assessment and intervention skills for problem solving with families acquired. Course is not in the social welfare degree program.

45.452 Social Work Practice With Organizations and Communities

Spring 3 semester hours Examines problem-solving interventions with large groups, communities, and organizations using the conceptual framework of social work knowledge, skills, and values. Prerequisites: 45.133, 45.215, and 45.297; Economics 40.211; Political Science 44.120

45.453 Social Welfare Policy

Spring 3 semester hours Frameworks for analyzing social and economic policies presented with special focus on legislative, judicial, and administrative policies.

Prerequisites: 45.133, 45.215, and 45.297 (may be taken concurrently); Economics 40.211; Political Science 44.120

45.497 Social Welfare Internship 10-15 semester hours

Provides the social welfare major with the opportunity to integrate and apply knowledge, theory, and understanding extracted from the foundation courses. Fosters skill development and evaluates the demonstration of beginning competencies in working with individuals, families, groups, organizations, and communities. 45.466 and 45.498 may be taken concurrently.

Prerequisites: 45.133, 45.215, 45.260, 45.297, 45.334, 45.450, 45.452, and 45.453; Economics 40.211; Political Science 44.120; Psychology 48.210

45.498 Integrative Methods Seminar in Social Work and Social Welfare 3 semester hours

An examination of social work practice from a system theory perspective and its functional relevance to contemporary social problems. Internship and other practice experiences are critical elements in this review course. Course is taken concurrently with or after the social welfare internship.

Prerequisites: 45.133, 45.215, 45.260, 45.297, 45.334, 45.450, 45.452, 45.453, and 45.466 and 45.497 (both may be taken concurrently); Economics 40.211; Political Science 44.120; Psychology 48.210

Faculty Credentials

I. SUE JACKSON

A.B., Lycoming College; M.S.S.W., Graduate School of Social Work, University of Texas

CHARLES W. LAUDERMILCH

B.A., Moravian College; M.S.W., Wayne State University

DALE L. SULTZBAUGH

B.A., Gettysburg College; M.Div., Lutheran Theological Seminary; M.S.W., West Virginia University

Department of Sociology and Social Welfare

College of Arts and Sciences

Chairperson

I. Sue Jackson

Frank G. Lindenfeld Chang Shub Roh Anne K. Wilson

Professors

Christopher F. Armstrong Leo G. Barrile Iames H. Huber

Associate Professors

Thomas A. Bonomo David E. Greenwald I. Sue Jackson

Degree Program

Bachelor of Arts in Sociology or Sociology/Criminal Justice
A total of 36 semester hours is required for a major in sociology.
A total of 42 semester hours is required for a major in sociology/criminal justice.

Goals and Objectives

Designed to give students a firm liberal arts education in sociology, this program exposes students to the theoretical concepts and research methods of the field, introduces them to computer data analysis, and prepares them for graduate study. The program provides students the opportunity to explore the causes of social problems with respect to race, class, gender, crime, the political economy, age, health, work, punishment, victimization, and deviance. Students are encouraged to think critically about the structure and dynamics of social groups, institutions, ideology, and the society.

Required Courses

The following courses (12 semester hours) are required for this major: Sociology 45.211, 45.260, 45.462, and 45.466. Students also must select eight additional courses, 24 semester hours, from Code 45 courses; four of these must be drawn from 300 and 400 level courses. The sociology internship and social work courses may not be counted as part of these eight courses.

Option in Criminal Justice

Students who wish to channel their education in sociology more specifically toward a career in criminal justice may choose the option in criminal justice. Through the sociology/criminal justice sequence, students are exposed to justice, enforcement, and corrections systems, investigation, and victim's services. A total of 42 minimum semester hours is required for this option; this includes the four core courses (Sociology 45.211, 45.260, 45.462, 45.466) stipulated for the major in sociology. A G.P.A. of 2.2 is required to remain in the criminal justice option.

Required courses are: 45.211, 45.242, 45.244 or Political Science 44.244, 45.260, 45.341, 45.342, 45.343, 45.462, 45.466, 45.496, and three of the following courses: 45.133, 45.334, 45.215, 45.213, 45.443, 45.216. The Sociology Internship Program (45.496) accounts for 6 to 15 semester hours. Internships which can be at local, state or federal agencies, or private institutions, provide first-hand experience in the field.

SOCIOLOGY and CRIMINAL JUSTICE (Code 45)

45.211 Principles of Sociology

3 semester hours

Introduces the basic concepts, theories, and perspectives in sociology. Sociology is the scientific study of the influence of groups, institutions, and cultures upon individuals. For example, the extent to which race, gender, class, religion, and education affect the behavior and opportunities of individuals is probed.

45.213 Contemporary Social Problems 3 semester hours

Examines social issues such as plant closings and unemployment, the impact of multinational corporations on the economy and the environment, mobility, aging, family problems – sex roles, abuse, incest, divorce, alcohol and drug abuse, social change and disorganization, racism, sexism, employment discrimination, crime, alienation, and poverty.

45.215 Racial and National Minority Groups

3 semester hours

Presents a sociological examination of some of the major racial, ethnic, and religious minorities and their divergent heritages in the contemporary American scene.

Prerequisite: 45.211

45.216 Urban Sociology

3 semester hours

Presents a sociological analysis of origin and growth of cities with an emphasis on the dynamic patterns of social interaction in the changing contemporary urban scene. Views cities mainly from a multinational perspective with a special focus on urban regions. Prerequisite: 45.211

45.217 Sociology of Sport

3 semester hours

An introduction to and critical examination

of the role of sports in society. Focuses on the reciprocal impact of sports and various institutions of society. Students examine the sociological perspective on sports as a human activity.

45.219 Religion and Society

3 semester hours

Examines religion as a means by which people, as members of communities, order their lives and endow them with meaning. Topics include ritual and belief systems, the social organization of religion, and the relationship between religion and other parts of the social structure.

45.231 Marriage and Family

3 semester hours

Provides a sociological examination of the traditional and changing institutions of marriage and the family in contemporary society. Focuses on family and marital interaction, roles, and interpersonal familial relations.

45.242 Juvenile Delinquency

3 semester hours

Examines social pressures operative upon children in American society, which leads to formation of delinquent personality. Consideration of treatment and prevention, juvenile courts, clinics and correctional institutions, evaluation of theories, concepts, and relevant empirical research.

45.244 Introduction to Criminal Justice 3 semester hours

Offers a comprehensive survey and basic understanding of the role and function of the criminal justice field. Attention is given to crime and criminal law, law enforcement, police, courts, corrections, and juvenile justice.

45.260 Basic Social Statistics

3 semester hours

Presents principles and techniques of statistical analysis used by sociologists and others in social sciences: descriptive tables and graphs, measures of dispersion, significance tests,

correlation, and regression. Students collect and analyze data using computers. Emphasis on understanding concepts underlying statistical analysis in order to permit intelligent use and interpretation of statistics.

45.276 Science and Society

3 semester hours

Explores science as the organized activities of an occupational community. Examines the development of science as an institution, its social organization in modern society, and its internal and external politics.

Prerequisite: 45.211 or consent of instructor

45.318 Social Stratification

3 semester hours

Examines the role of social class in terms of structure, function, and persistence in any society. Examines classical theoretical statements and evaluates current American class relations in terms of status, power, authority, and social mobility. Covers notable studies of the American class system and provides a close look at power relations and styles of life among the various American classes.

Prerequisite: 45.211

45.341 Criminology

Fall 3 semester hours

Discusses the major sociological theories of crime and justice. Presents the scope of crime in the United States and other countries. Probes each major type of crime, namely, homicide, rape, white-collar crime, political crime, organized crime, property crimes, drug crimes, prostitution, and pornography. Describes and analyzes law enforcement system. Prerequisite: 45.211

45.342 Penology

Spring 3 semester hours

Penology studies the social rationales, methods, and consequences of punishing and rehabilitating law breakers. Includes a social history of prisons, jails, and punishment, the interpersonal dynamics within the institution, the inmate social order, causes of riots, treatment programs, and alternative models and policies.

Prerequisite: 45.211

45.343 Victimology

Spring 3 semester hours

Examines the short-term and long-term effects of victimization on individuals and groups from such crimes as family violence, rape, street crime, business fraud, corporate negligence, and political wrong doings. Prerequisite: 45.211

45.345 Medical Sociology

3 semester hours

Facilitates student's ability to understand. analyze, and evaluate sociological factors in relation to illness, medical behavior, and health care systems.

Prerequisite: 45.211 or consent of instructor

45.400 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 the communications industry, particularly its influence on media content, and the political use of mass media. Students critique latest research articles in the field.

Prerequisite: 45.211 and Junior status

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. 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.

Prerequisite: 45.211

45.457 Sociology of Community 3 semester hours

Reviews and examines theories and research of communities. Gives special emphasis to the American community.

Prerequisite: 45,211

45.461 Social Problems in Rural-Urban Communities

3 semester hours

Focuses on social problems peculiar to and characteristic of rural and small urban communities. An eclectic theoretical interpretation will be made of the major social problems. Emphasizes problems which result in the dysfunctioning of patterned social relationships.

45.462 Sociological Theory

3 semester hours

Examines classical forms of social theory from the 19th century and their impact on the development of theory in the 20th century. Studies the views of Max Weber, Emile Durkheim, and Karl Marx on the social structure, social organization, economy, and human condition as well as their influence on contemporary perspectives, namely, the conflict and functional approaches, sociology of knowledge, phenomenological sociology, and symbolic interactionism.

Prerequisite: 45.211

45.465 Computer Applications in the Social Sciences

Spring 3 semester hours Introduces computer use for the social sciences (through the use of SPSS). Emphasizes translating questions into data analysis and interpretation of statistical results.

Prerequisites: 45.260, 45.466, or consent of the instructor

45.466 Social Research

3 semester hours

Stresses design and construction of major

research methods and procedures used in social research. Special emphasis on survey research.

Prerequisites: 45.211, 45.260 or consent of the instructor

45.467 Populations Problems

3 semester hours

Studies human population, its major theories, distributions, composition, characteristics, changes, and future developments of population and impacts of population problems on society as influenced by vital proc-

Prerequisite: 45.211

45.468 Social Service Planning

3 semester hours

Provides an advanced consideration of the social context and the development of social policy and planning. Stresses the implementation of social and/or human services at federal, state, and local levels of organization. A critical analysis of the effects of social policy, planning, and services on people in a service-oriented, post-industrial society. Prerequisites: 45.211 and consent of the in-

structor

45.470 Senior Seminar

3 semester hours

Provides for individual research projects and reports with-in selected areas of interest such as the family, criminology, social services, and special populations. Usually offered in the spring semester.

Prerequisites: Senior status; 18 semester hours of sociology and social work; and consent of the instructor

45.471 Independent Study in Sociology 3 semester hours

Allows student to pursue individualized instruction in-depth with a faculty member in a specific area of the field not covered in current courses. See section on Independent Study on page 10.

Prerequisites: 45.211 and consent of instructor, chairperson, and members of the department.

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.

Prerequisite: 45.211

45.477 Community Land Use Planning 3 semester hours

Introduces the community planning process and the theoretical perspectives relevant to community land use planning. Examines selected substantive planning problem areas in the local community. Students formulate, develop, and present a community land use plan.

Prerequisite: 45.211

45.478 Sociology of Work

3 semester hours

Presents a sociological examination of work and the milieu of the worker. Studies formal

and informal work organizations, job satisfaction and dissatisfaction, structure and organization of industrial and post-industrial societies, and relationship between work organizations within communities and society. Prerequisite: 45.211

45.490 Sociology of Aging

3 semester hours

Studies aging, its major theoretical themes, patterns of living, socio-psychological, and cultural consequences. Examines the contemporary issues, problems, and programs of the aging.

Prerequisite: 45.211 or consent of instructor

45.496 Sociology Internship Program 1-15 semester hours

Designed primarily for the junior or senior working in a specific institutional field and/or college-approved, off-campus activities related to student's chosen professional field. Prerequisites: Consent of the instructor and department chairperson

Faculty Credentials

CHRISTOPHER F. ARMSTRONG

B.A., Washington and Lee University; M.A., Ph.D., University of Pennsylvania

LEO G. BARRILE

B.A., M.A., Ph.D., Boston College

THOMAS A. BONOMO

B.A., Muskingum College; M.A., Ph.D., Wayne State University

DAVID E. GREENWALD

B.A., University of Pennsylvania; M.A., Ph.D., University of California at Berkley

JAMES H. HUBER

B.S., Bloomsburg State College; M.A., University of Delaware; Ph.D., The Pennsylvania State University

I. SUE JACKSON

A.B., Lycoming College; M.S.S.W., Graduate School of Social Work, University of Texas

FRANK G. LINDENFELD

B.A., Cornell University; M.A., Ph.D., Columbia University

CHANG SHUB ROH

B.A., Dong-A University; C.S.W., M.S.W., Ph.D., Louisiana State University

ANNE K. WILSON

B.A., Carleton College; M.S., University of Maryland; Ph.D., The Johns Hopkins University

Department of Communication Disorders and Special Education

School of Education, College of Professional Studies

Chairperson

Carroll J. Redfern

Professors

Mary B. Hill Kenneth P. Hunt Carroll J. Redfern

Associate Professors

Arthur R. Crowell Ann L. Lee Joseph M. Youshock

Assistant Professors

Ann Marie Cook Sheila D. Jones Michael J. Karpinski June I Maddox

Degree Program

Bachelor of Science in Education-Special Education

A total of 51 semester hours is required for a major in special education.

Goals and Objectives

The program in special education offers certification for teachers of the mentally retarded and/or physically handicapped individuals; an area of concentration for the education of students in hearing impaired; and the courses and experiences which support these curricula.

Students enrolled in special education have the opportunity to student teach in the following settings: public schools, state centers, approved private schools, preschool settings, and adjudicated environments. Placements are in Columbia, Cumberland, Dauphin, Lackawanna, Luzerne, Lycoming, Montour, Northumberland, Snyder, and Sullivan counties.

Required Courses

The following courses are required for teaching mentally and/or physically handicapped individuals: English 20.101, 20.104, 20.200 or 20.201; Speech Communication 25.103 or 25.104; Psychology 48.101, 48.210; Biological and Allied Health Sciences 50.101; Mathematics 53.141 or Psychology 48.160.

Professional Education Courses

Courses in professional education include: Health, Physical Education, and Athletics 05.321; Educational Foundations 60.251, 60.393; Early Childhood and Elementary Education 62.302 or 62.390, 62.371, 62.398, and 62.373 or 60.375 or Secondary Education 65.374.

Special Education Courses

Special Education courses include: Special Education 70.101, 70.200, 70.202, 70.231 (this course is not required for the hearing impaired program), 70.250, 70.251, 70.253, 70.353, 70.357, 70.401, 70.432, 70.450, 70.451, and 70.461.

General Education Courses

Core courses designated by the departments as applicable to the General Education requirements may be elected in partial fulfillment of that requirement. Those majoring in teaching mentally and physically handicapped individuals are required to take a minimum of 54 semester hours in General Education courses.

310 • Special Education

Students entering the university who have declared special education as their major are advised by faculty in the Department of Communication Disorders and Special Education. They begin taking courses in the major in the first semester of the freshman year and generally enroll in at least one special education course every semester thereafter. A typical schedule of courses is as follows:

FRESHMAN YEAR

Fall Semester

70.101 Introduction to Exceptional Individuals
General Education

Spring Semester

70.200 Introduction to the Mentally/Physically Handicapped Individual

70.231 Language I

60.251 Psychological Foundations of Education General Education

SOPHOMORE YEAR

Fall Semester

70.250 Behavior Disorders

70.202 Technology for Exceptionalities General Education

Spring Semester

70.251 Learning Disabilities

70.253 Methods and Materials for Teachers of the Low Functioning Mentally Retarded General Education

JUNIOR YEAR

Fall Semester

70.357 Prevocational and Vocational Education for the Handicapped

60.393 Social Foundations of Education

62.398 Teaching of Mathematics in the Elementary School

62.302 Teaching Science in the Elementary School

62.390 Teaching Social Studies in the Elementary School General Education

Spring Semester

70.432 Languages II

70.450 Methods for Elementary Special Education

62.371 Teaching Reading in the Elementary School General Education

SENIOR YEAR

Fall Semester

70.451 Methods for Secondary Special Education

70.353 Assessment and Planning

Reading course

General Education

Spring Semester

70.401 Student Teaching With Exceptional Individuals

70.461 Problems in Special Education

Adjustments are made in the above sequence of courses which reflect the needs of students who desire to take less or more semester hours of work than the average student. Transfers (internal and external), readmitted students, adult learners, and part-time students make it necessary to make adjustments in scheduling. Students who have the necessary requirements complete their student teaching the first semester and return to campus to complete their General Education requirements for graduation. Students who enroll in summer school could possibly graduate early or reduce the number of semester hours taken during the academic year. Students seeking dual certification (Special Education/Elementary Education or Early Childhood Education) often enroll in summer sessions.

Elective Courses

A total of 15 semester hours is taken in elective courses for this major. These courses include: 70.255, 70.256, 70.375; Speech Pathology and Audiology 72.152; Studies in Hearing Loss 74.153.

SPECIAL EDUCATION (Code 70)

70.101 Introduction to the Exceptional Individual

3 semester hours

Reviews all major areas of exceptionality (visually impaired, mentally retarded, hearing impaired, communication disorders, behavior disorders, learning disabilities) and acquaints the student with social, sociological, psychological, medical, historical, legal, economic, and professional aspects of these conditions. Reviews current research and the latest techniques for facilitating meaningful interactions with these individuals.

70.200 Introduction to the Mentally and Physically Handicapped

3 semester hours

An orientation to the nature of mental and physical handicaps; concerned with etiology and types and with the behavioral and learning characteristics involved. Exposes students to an historical survey of mental retardation, research in mental retardation, community and state responsibility in relation to the mentally and physically handicapped, prevention and treatment, educational and recreational avenues for the mentally and physically handicapped, and facets of the relationship and reactions of the individual and parent.

70.202 Technology for Exceptionalities 3 semester hours

Provides the special education major with an introduction to technology as it is being applied to meet the needs of exceptional individuals and special education teachers. Computers, as well as other technological devices, are studied in relation to use as prosthetics, instructional tools, administrative tools (particularly Individualized Education to the special particularly Individualized Education to the special education major with an introduction to technology as it is being applied to meet the needs of exceptional individuals and special education teachers.

tion Program generation and data management), and environmental interfaces.

70.231 Language I

3 semester hours

Aids the teacher in developing understanding of listening and speech processes, developmental and defective. Includes introduction to anatomy and physiology of speech and hearing mechanisms, developmental stages of language acquisition, etiological factors related to receptive and expressive deficits, and techniques for developing listening and speaking skills by the teacher.

70.250 Behavior Disorders

3 semester hours

Deals with inappropriate behaviors emitted by children and youth and the techniques and strategies that may be used to modify these behaviors. Covers psychological disorders, research related to aggressive and withdrawn behavior, and techniques and materials used in social curriculum. Examines group and individual problems at all school levels.

70.251 Learning Disabilities

3 semester hours

Presents its content in three units, a general overview, the central nervous system, and specific learning disabilities. Includes general characteristics of learning problems, their causes or related factors, the medical model, and specific language disorders and remediation.

70.253 Methods and Materials for Teachers of the Low Functioning Mentally Retarded

3 semester hours

Provides supervised student contact with low functioning mentally retarded and multi-handicapped individuals (LFMR). The student designs and implements educational experiences for LFMR and builds and uses materials suitable to the abilities of the individuals with whom they work. Exposes methods and materials appropriate to this segment of the mentally retarded population. Course conducted at the Selinsgrove Center.

Prerequisite: 70.200

70.255 Experience With Exceptional Individuals

3 semester hours

Presents clinical or field experience working individually or in small groups with exceptional individuals in various settings.

Prerequisites: Junior or Senior standing and

70,256 The Gifted Child

consent of the instructor

3 semester hours

Familiarizes students with physical, mental, emotional, and social characteristics of the mentally gifted and with types of organization, teaching procedures, and curricular material used in the education of the mentally gifted. Explores family relationships relevant to education of gifted individuals.

70.353 Assessment and Planning 3 semester hours

Provides information and experience with formal and informal assessment devices and procedures, their usages and appropriateness. Covers gathering information about the learner prior to instruction concerning appropriate instructional tasks, sensory channels, interest areas, and social skills. Covers ways of developing informal assessments, gathering observational information, storing information, and planning for instruction. Prerequisite: Junior or Senior standing

70.357 Prevocational and Vocational Education for the Handicapped 3 semester hours

Develops a philosophy of vocational education for the mentally and/or physically handicapped, knowledge of programs and strategies to develop their prevocational and vocational skills, materials and assessment procedures appropriate for those students and programs.

Prerequisite: Junior or Senior standing

70.375 Individual Project

3 semester hours

Project is planned according to interests and needs of the individual student, in any of the following suggested areas: library research, curriculum study, internship in special aspects of educational programs.

Prerequisite: Open only to Juniors and Seniors with staff approval

70.401 Student Teaching With Exceptional Individuals

12 semester hours

Provides opportunities for the student to test educational theory by putting it into practice, opportunities to raise questions, problems and issues which may lead to advanced study, and opportunities for effective functioning in a pupil-teacher relationship in an actual classroom setting.

Prerequisite: Concurrent with 70.461

70.432 Language II

3 semester hours

Aids the student in preparing to teach exceptional individuals basic and refined written language skills. Includes methods and materials for teaching penmanship, spelling, syntactical structure, and reading.

Prerequisite: Junior or Senior standing

70.450 Methods for Elementary Special Education

3 semester hours

Presents 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: Junior or Senior standing

70.451 Methods for Secondary Special Education

3 semester hours

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

Prerequisite: Junior or Senior standing

70.455 Learning Disabilities

3 semester hours

A study of the characteristics and symptoms of specific learning disorders. Introduces diagnostic and educational procedures used with learning disorders. Emphasizes perceptual and conceptual factors in the development of language skills. For individuals who have not had a course in learning disabilities.

70.461 Problems in Special Education 3 semester hours

Presents instruction in the development of constructive teaching of exceptional individuals. Focuses on problems in the education of exceptional children. Discusses its relationship to teaching as each problem is defined. Helps the future teacher meet practical problems in guiding the exceptional individual in learning experiences at school. Prerequisite: Concurrent with 70.401

70.490 Special Workshop

70.491/70.492 3 semester hours

Utilizes temporary special workshop seminars designed to focus on contemporary trends and problems in the field of special education lectures, resource speakers, team teaching, field experiences, practicum, news media, and related techniques.

Faculty Credentials

ANN MARIE COOK

B.S., James Madison University; M.S., Ed.D., George Washington University

ARTHUR R. CROWELL JR.

B.S., M.S., Southern Connecticut State University; Ph.D., The University of Connecticut

MARY B. HILL

B.S., Bloomsburg State College; M.Ed., University of Delaware; Ph.D., Temple University

KENNETH P. HUNT

B.S., M.Ed., State University of New York at Buffalo; Ph.D., University of Pittsburgh

SHEILA D. JONES

B.S., M.Ed., Bloomsburg University; Ed.D., University of Missouri

MICHAEL J. KARPINSKI

B.S., M.Ed., Bloomsburg University; Ph.D., University of Maryland

ANN L. LEE

B.S., M.Ed., Bloomsburg State College; Ed.D., Indiana University of Pennsylvania

IUNE I. MADDOX

B.S., Bloomsburg State Teachers College; M.S., Central State University

CARROLL J. REDFERN

B.S., Johnson C. Smith University; M.Ed., Bloomsburg State College; Ed.D., Lehigh University

JOSEPH M. YOUSHOCK

B.S., M.Ed., Bloomsburg University; Ed.D., Temple University

Department of Communication Studies

College of Arts and Sciences

Chairperson

Mary Kenny Badami

Professor

Mary Kenny Badami

Associate Professors

Howard N. Schreier Harry C. Strine III

James E. Tomlinson

Assistant Professors

Dale A. Bertelsen Janet Reynolds Bodenman

Kara Shultz Janice M. Youse

Degree Program

Bachelor of Arts in Speech Communication

A total of 30 semester hours is required for a major in speech communication.

Bachelor of Science in Education with Communication Certification

Requirements for the bachelor of science in education are found in the section on Secondary Education on page 176. This degree program offers a communication certification with a speech, theater or nonprint media option. Students in this degree program have an adviser in both the Curriculum and Foundations and the Communication Studies departments.

Goals and Objectives

This department includes both speech communication and theater divisions. The speech communication division supports general education for the entire university with courses in public speaking, interpersonal communication, and intercultural communication.

Students who major in speech communication learn written and oral communication skills for use in a variety of settings. Those who expect to work in one-to-one and small group situations in business typically choose the specialization in interpersonal and organizational communication, while those who expect to deliver speeches and write for publication typically choose the specialization in public communication. The major has proved to be good career training for students who enter many fields of business, especially in jobs such as public relations, tour guide/public hospitality, personnel and training, fund raising, management, and sales. It is also excellent preparation for those who pursue graduate and professional study in order to enter such fields as teaching, law, politics, and ministry.

Required Courses

Ten courses, which total 30 semester hours, are required for the major. These include: 25.104, 25.215, and 25.315, plus 21 semester hours in one of the two options described below.

General Education Course

Public Speaking (25.103) is a required General Education course for students in this degree program.

Options

Students may choose an option in either interpersonal and organizational communication or in public communication — both options require 21 semester hours of coursework.

Interpersonal and Organizational Communication

The option in interpersonal and organizational communication requires three courses in basic theory and performance, three courses in advanced theory, plus 25.445 Organizational Communication.

Basic theory and performance courses — 9 semester hours

Select a minimum of three courses from: 25.206, 25.218, 25.220, 25.307, 25.321, and 25.241.

Advanced theory courses — 9 semester hours

Select a minimum of three courses from 25.492, 25.493, 25.494, 25.495, and 27.332.

Public Communication

The option in public communication requires one course in vocal skills, two courses in basic theory and performance, three courses in advanced theory, plus 25.205 Rhetorical Theory.

Vocal skills — 3 semester hours

Select one course from 25.206 or 25.241.

Basic theory and performance — 6 semester hours

Select a minimum of two courses from 25.218, 25.220, 25.307, and 25.321.

Advanced theory — 9 semester hours

Select a minimum of three courses from 25.492, 25.493, 25.494, and 25.495.

Forensic Society

Students in the forensics program debate current topics, develop original speeches, and present readings at intercollegiate competitions. Team members compete locally, regionally, and nationally, and they help to organize tournaments sponsored by Bloomsburg University. Participants may earn up to one credit per year by taking 25.108 Forensics Practicum. Students from all majors are welcome to join the forensics team to improve their self-confidence, competence in research, knowledge of current events, appreciation of literature, and public

SPEECH COMMUNICATION (Code 25)

25.103 Public Speaking

3 semester hours

A basic course in speech with emphasis on formal speaking and audience reaction.

25.104 Interpersonal Communication 3 semester hours

Analyzes one-to-one communication for developing and changing behaviors during interpersonal speech communication.

25.108 Forensic Practicum

1 semester hour

Participation in forensics: debate or individual speaking events. Grades are awarded each

semester. May be repeated for maximum of 3 semester hours of credit. First semester register for 25.108.01. Second semester register for 25.108.02. Participation for two semesters for one semester hour of credit.

25.205 Rhetorical Theory

Fall 3 semester hours

Highlights major trends in rhetoric from the sophists to contemporary rhetorical theorists.

25.206 Oral Interpretation of Literature 3 semester hours

Provides practice in skills necessary for conveying intellectual and emotional meanings in poetry and prose read to an audience.

25.215 Communication Theory

Spring 3 semester hours Introduces definitions and models of communication as a social science; surveys methods for the scientific study of communication; describes recent developments in the

theories of interpersonal, small group, public, and mass communication.

25.218 Discussion

3 semester hours

Presents a survey of and practice in types and patterns of public discussion.

Prerequisite: 25.103 or 25.104 or consent of the instructor

25.220 **Intercultural Communication 3 semester hours

Provides an overview of speech communication as it relates to socio-cultural differences that reflect ethnic and racial experiences, knowledge, and values.

Prerequisite: 25.103 or 25.104 or consent of the instructor

25.241 Voice and Diction

3 semester hours

Studies the international phonetic alphabet and the causes of vocal problems.

25.307 Business and Professional Speech 3 semester hours

Studies business and professional communication, salesmanship (selling skills and methods), conference, and interviewing. Prerequisite: 25.103 or 25.104

25.315 Persuasion

25,421 3 semester hours

Examines the way people use symbols to influence other people. Provides practice in presenting and evaluating persuasive messages.

Prerequisite: 25.103 or 25.104

25.321 Argumentation

3 semester hours Examines basic principles of argument and evidence. Provides practice through presentation and refutation of arguments in debates on controversial issues. Prerequisite: 25.103 or 25.104

25.445 Organizational Communication 3 semester hours

Explores the theoretical and the practical aspects of how communication patterns develop in organizations. Open to undergraduate and graduate students.

25.470 Independent Study

1-3 semester hours

Provides for individual work and study in one of the areas of rhetoric and communication. Student finds a faculty sponsor, prepares a written proposal that requires departmental recommendation and the dean's approval arranged through the chairperson. See section on Independent Study on page 10.

25.492 Special Topics in Communication 25.493/25.494/25.495

3 semester hours

Investigates significant aspects of speech communication. Topics vary by semester and include: Intercultural Communication. Communication and the Sexes, Conflict and Communication, Communication Training in Organizations, Theories and Techniques of Interviewing, Nonverbal Communication, Political Communication, Rhetoric in a Mediated Society, Cultural Foundations of the Information Society, and Media Criticism. Consult the schedule booklet or the listed instructor for further information. Prerequisite: 9 semester hours in speech

communication courses

25.497 Internship in Communication

3-12 semester hours

Integrates classroom experience with practical work experience in industrial, business, or government work settings. Students must establish academic integrity of their proposed experience and its relevance to coursework in the major. Contact departmental internship coordinator to obtain detailed information and forms.

**Indicates course approved as diversityfocused.

Faculty Credentials

MARY KENNY BADAMI

B.S., Fordham University School of Education; M.A., Hunter College; Ph.D., Northwestern University

DALE A. BERTELSEN

B.S., Rider College; M.A., Ph.D., The Pennsylvania State University

JANET REYNOLDS BODENMAN

B.A., Willamette University; M.A., The Pennsylvania State University

HOWARD N. SCHREIER

B.A., Brooklyn College; M.A., University of Georgia; Ph.D., Temple University

KARA SHULTZ

B.S., M.A., University of Northern Colorado; Ph.D., University of Denver

HARRY C. STRINE III

B.A., Susquehanna University; M.A., Ohio University

JAMES E. TOMLINSON

B.A., M.A., California State University at Long Beach

JANICE M. YOUSE

B.S., M.A., Temple University

Department of Communication Disorders and Special Education

School of Education, College of Professional Studies

Chairperson

Carroll J. Redfern

Professors

Richard M. Angelo, clinical director Ronald R. Champoux Robert J. Kruse G. Donald Miller, assistant chairperson Associate Professors

Dianne H. Angelo Robert J. Lowe

Assistant Professors

Vishakha W. Rawool Julia M. Weitz

Degree Program

Bachelor of Science in Speech Pathology and Audiology A total of 51 semester hours is required for a major in speech pathology and audiology.

Goals and Objectives

The preprofessional curriculum in communication disorders prepares students for admission to graduate education in speech pathology and audiology. The department makes no recommendation for any type of certification based on the completion of the undergraduate preprofessional curriculum. A core of required courses is prerequisite to graduate school admission and is based on the American Speech-Language-Hearing Association (ASLHA) accreditation/certification requirements.

Courses in the undergraduate preprofessional curriculum in speech pathology and audiology are open to all university students (majors and non-majors) who are interested in hearing science, speech science, normal language and communication development and/or disorders. Courses in the curriculum can be elected by students in teacher preparation (i.e., early childhood, elementary, secondary or special education or education of the hearing impaired) who want to gain competencies related to the special problems of teaching children with speech, language, and hearing impairments. The curriculum offers a general education course concerning the processes, functions, and pathologies of human communication.

The preprofessional curriculum provides the student with a broad general education background. The primary emphasis is on General Education with a few introductory courses pertaining to the profession of speech pathology and audiology. No professional courses or experiences are offered at the undergraduate level (i.e., student teaching).

Admission to the graduate programs in audiology and speech pathology is competitive and limited. Graduates of the master's degree program in speech pathology and audiology are eligible for certification in speech correction granted by the Pennsylvania Department of Education, the Certificate of Clinical Competence in Audiology or Speech Pathology issued by the American Speech-Language-Hearing Assocation (ASLHA), and licensure in audiology or speech pathology issued by the Commonwealth of Pennsylvania.

Required Courses

The following courses in speech pathology and audiology are required: 72.162, 72.200, 72.220, 72.240, 72.300, 72.310, 72.320, 72.330, 72.340, 72.450, and 72.460; plus the following courses which total 15 semester hours, Psychology 48.160, Biological and Allied Health Sciences 50.366, Physics 54.106, and Special Education 70.101 and 70.202.

Elective Courses

A total of 23 semester hours in general elective courses must be selected with the approval of the adviser.

and AUDIOLOGY (Code 72)

72.152 Introduction to Communication Disorders

3 semester hours

Presents an introduction to the study of human communication and communication disorders, the role of professionals in communication disorders, basic processes, functions and problems of human communication for children and adults.

72.162 Introduction to Speech Pathology 3 semester hours

Presents an introduction to the neurophysiological bases of speech and language as fundamental to the understanding of pathologies of language and speech in depth. Explores research findings.

72.200 Introduction to Audiology

3 semester hours

Introduces the causes, evaluation techniques and rehabilitative procedures for various types of hearing problems; related auditory, speech, psychological, and educational factors; the roles of parent, educator, and specialist in the rehabilitation program. Presents hearing conservation procedures used in schools and industry.

72,220 Phonetics

3 semester hours

Studies of the physiological, acoustical, perceptual, and descriptive aspects of speech and sound production. Primary emphasis on description, classification, and transcription of speech sounds. Provides a base of knowledge for diagnosis and treatment of phonetic and phonological disorders of communication. Prerequisite: 72.162

72.240 Normal Language Acquisition 3 semester hours

Focuses on current information and theory regarding normal language acquisition. Prerequisite: 72.162

72.300 Auditory Training and Speech Reading

3 semester hours

Presents current teaching methods for educating children and adults with moderate and severe hearing losses.

Prerequisite: 72.200

72.310 Speech Science

3 semester hours

Speech science is the study of the physiology of speech production, the acoustical characteristics of speech, and the processes by which listeners perceive speech.

72.320 Assessment and Remediation of Language Disorders

3 semester hours

Prepares students for the clinical application of language analysis procedures drawn from linguistics, psycholinguistics, and sociolinguistics and to apply knowledge from these areas to the management of language disorders. Studies various intervention models. Prerequisites: 72.162, 72.220, 72.240

72.330 Assessment and Remediation of Speech Disorders

3 semester hours

Considers the major theoretical approaches to assessment and treatment of speech disorders. Students engage in clinical observation, examination of standardized tests, and procedures used in the differential diagnosis of disorders in the areas of articulation, phonology, fluency, and voice. Provides training in the administration of therapy programs. Prerequisites: 72.162, 72.220

72.340 Applied Behavior Analysis 3 semester hours

Applies the psychology of learning to communicative behavior and clinical problems. Presents current educational and therapeutic trends and practices.

72.430 Fundamentals of Audiology 3 semester hours

Presents a synopsis of primary concepts in diagnostic and rehabilitative audiology. Relates the possible implications of audiological topics to speech pathology, education of the hearing impaired, reading, nursing, and special education. Not for audiology majors.

72.450 Clinical Observation

3 semester hours

Students develop the skills of a trained observer and participate in observations of the practice of audiology and speech-language

pathology. Observations are conducted on and off campus.

72.460 Psycholinguistics

3 semester hours

Presents the study of language as a psychological phenomenon. Areas of study include language acquisition, meaning, biology of language, sociolinguistics, nonverbal communication, animal communication, and application of psycholinguistics to communication disorders.

Prerequisites: 72.162, 72.240

72.468 Speech Habilitation in the Schools 3 semester hours

Examines the profession of speech/language pathology in a school setting as it interfaces with the other school-related disciplines. Emphasizes facilitation of communication among the disciplines.

Faculty Credentials

DIANNE H. ANGELO

B.S., M.Ed., Clarion University; M.S., Ph.D., University of Pittsburgh

RICHARD M. ANGELO

B.S., Mansfield State College; M.Ed., Bloomsburg State College; Ed.D., Lehigh University; Ph.D., University of Pittsburgh

RONALD R. CHAMPOUX

B.A., Providence College; M.A.T., Assumption College; M.S., M.A., Ph.D., University of Michigan

ROBERT J. KRUSE

B.A., M.A., Ph.D., Temple University

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B.A., Slippery Rock University; M.Ed., Clarion University; Ph.D., Ohio University

G. DONALD MILLER IR.

B.S., Indiana University of Pennsylvania.; M.A., Ph.D., Temple University

VISHAKHA W. RAWOOL

B.Sc., Bombay University; M.A., University of Texas at El Paso; Ph.D., Purdue University

CARROLL J. REDFERN

B.S., Johnson C. Smith University; M.S., Bloomsburg State College: D.Ed., Lehigh University

JULIA M. WEITZ

B.S., Emerson College; M.S., University of Pittsburgh

Department of Communication Disorders and Special Education

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Judith M. Hirshfeld

Instructor

Donald R. Rubel, co-curriculum coordinator, Interpreting

Interpreting and Sign Language

Degree Program

Bachelor of Science in Interpreting

A total of 54 semester hours is required for a major in interpreting.

Goals and Objectives

This program provides specialized training for individuals seeking to become American sign language interpreters. The objective for the sign language interpreting curriculum is to prepare individuals for certification from the Registry of Interpreters of the Deaf as professional interpreters between deaf/hard of hearing and hearing consumers within the context of a variety of settings: legal, educational, social, or business. Individuals desiring to specialize in communication with the deaf have two options: a program leading to a bachelor of science in interpreting or a minor in sign language. Individuals seeking entrance to the program must complete the following courses prior to formal admission to the program: 74.154 American Sign Language I and 74.155 American Sign Language II.

Required Courses

Courses required for the major in interpreting include: 18 semester hours in American Sign Language training requirements – 74.153, 74.154, 74.155, 74.254, 74.255, 74.256; 36 semester hours in interpreting requirements – Speech Pathology and Audiology 72.152 and 72.200, 74.201, 74.301, 74.302, 74.303, 74.304, 74.401, 74.415; Communication Studies 25.103, 25.220, and 25.215, plus one additional course from the Code 25 course listing.

Elective Courses

Elective courses are to be chosen with the approval of an adviser and as required to meet the university's graduation requirement of 128 semester hours. Students may choose from the following free electives: English 20.111, 20.411; Theater Arts 26.112, 26.208; Philosophy 28.207, 28.220, 28.290; Sociology 45.211, 45.213, 45.219, 45.231; Anthropology 46.101, 46.200, 46.440; Psychology 48.101, 48.160, 48.211, 48.271, 48.321; Special Education 70.101; Speech Pathology; Audiology 72.460; Interpreting 74.260.

Minor in Sign Language

Students from any academic discipline may declare a minor in sign language. The minor consists of 18 semester hours and requires the following courses: 74.153, 74.154, 74.155, 74.254, 74.255, and 74.256.

Area of Concentration in Education of Deaf/Hard of Hearing

The undergraduate curriculum in education of the deaf/hard of hearing lays the foundation for the training and education needed to prepare classroom teachers and itinerant hearing therapists to work in educational settings with deaf/hard of hearing children and adults. Individuals seeking certification to teach in educational programs for the deaf/hard of hearing are first required to major in early childhood, elementary, secondary or special education or speech pathology/audiology. Students supplement the curriculum for their majors with an area of concentration in education of the deaf/hard of hearing that requires a minimum of 18 semester hours. All students in hearing loss studies take General Education courses, professional education courses, and courses in studies in hearing loss concurrently throughout the program with the concentration in education of the deaf/hard of hearing.

Certification to teach deaf/hard of hearing students in school programs is granted by the Pennsylvania Department of Education upon completion of a related graduate program. Admission to the master's program in this field at Bloomsburg University is very competitive.

In addition to the courses listed below, all applicants to the graduate program in Education of the Deaf/Hard of Hearing must have completed an introductory course in sign language an introductory course in communication disorders and a course in statistics. Students should take these as General Education electives. The suggested time sequence is indicated below by an asterisk (*).

Required Courses

The following is a suggested time sequence for courses required in this program of study.

Freshman Year

*72.152 Introduction to Communication Disorders

74.201 History, Education, and Guidance of the Deaf/Hard of Hearing

*74.153 Introduction to Sign Language

Sophomore Year

72.200 Introduction to Audiology

74.154 American Sign Language I

Junior Year

*A statistics course

74.205 Introduction to Instructional Methods for the Deaf/Hard of Hearing

74.251 Phonerics

Senior Year

72.450 Clinical Observation

Elective Courses

A total of 12 semester hours is taken in elective courses. Courses include: 74.155, 74.254, 74.255, and 74.256.

Note: Undergraduate students who anticipate applying for admission to the university's master's degree program in education of the hearing deaf/hard of hearing are strongly urged to select 74.153, 72.152, and a statistics course as elective courses.

STUDIES IN HEARING LOSS (Code 74)

74.153 Introduction to Sign Language 3 semester hours

A study of sign language vocabulary and fingerspelling techniques used in communication with members of the deaf community. Emphasizes developing expressive and receptive skills.

74.154 American Sign Language I 3 semester hours

A study of American Sign Language (ASL) including the history of ASL and its recognition as a language. Focuses on development of expressive and receptive conversational ASL skills.

Prerequisite: 74.153 or equivalent skills

74.155 American Sign Language II 3 semester hours

A continuation of ASL I with emphasis placed on more complex grammatical structures and conversational fluency.

Prerequisite: 74.154

74.201 History, Education, and Guidance of the Deaf/Hard of Hearing

3 semester hours

Explores the handicap of hearing loss with emphasis on the history of educational procedures and guidance in communicative, psychological, and vocational habilitation.

74.205 Introduction to Instructional Methods for the Deaf/Hard of Hearing

3 semester hours

Introduces the design of instructional procedures and methods of implementing curricula for education of the deaf/hard of hearing. Discusses and demonstrates traditional and innovative approaches to teaching.

74.251 Phonetics

3 semester hours

Studies of the physiological, acoustical, perceptual, and descriptive aspects of speech and

sound production. Primary emphasis on the description, classification, and transcription of speech sounds. Provides a base of knowledge for the diagnosis and treatment of phonemic and phonological disorders of communication.

Prerequisites: 74.252, 74.253

Hearing Impaired Prerequisites: 74.152, 74.201, 74.276, Junior or Senior standing

74.254 The Deaf Culture

3 semester hours

Involves study and analysis of the deaf community. Emphasis on research and discussion of social, psychological, and personal aspects of the members of the deaf community.

74.255 American Sign Language III 3 semester hours

Continuation of ASL II. Major focus on the study of ASL sign principles and linguistic structure of the language to continue building expressive and receptive ASL skills. Prerequisite: 74.155 or equivalent skills

74.256 American Sign Language IV 3 semester hours

A continuation of ASL II. Focuses on more advanced linguistic aspects of ASL and a synthesis of all concepts previously learned. Prerequisite: 74.255 or equivalent

74.260 Interpreting in the Educational Setting

3 semester hours

Study of interpreting within a variety of educational settings including postsecondary, secondary, and elementary areas. Topical areas include: recent legislation on the status of interpreters, characteristics of various meetings, and visually coded English Sign Systems.

74.301 Introduction to Interpreting for the Deaf

3 semester hours

Focuses on topics such as the Registry of Interpreters for the Deaf, various kinds of certification, establishing the interpreting situation, and the mental processes involved in interpreting and transliteration. Emphasis on ethical behavior.

Prerequisite: Completion of American Sign Language curriculum

74.302 Interpreting English to American Sign Language

3 semester hours

Focuses on building expressive interpreting skills. Experience gained through laboratory work and classroom discussions when interpreting situations for observation and practice are presented. Emphasizes professionalism, principles, and ethics.

74.303 Transliterating English to Sign Language

3 semester hours

Focuses on building transliteration skills. Experience gained through laboratory work and classroom discussions when transliteration situations for observation and practice are presented. Emphasizes professionalism, principles, and ethics.

Prerequisite: 74.301

74.304 Oral Interpreting/Transliterating 3 semester hours

Identifies information and techniques and the utilization of skills required for effective oral interpreting and transliterating. Includes use of personal characteristics to facilitate speech reading and the identification of the needs of the hearing impaired individual during interpretation.

Prerequisites: 74.152, 74.276, and 74.301

74.390 Directed Project in Communication Disorders

3 semester hours

Gives students the opportunity to carry out special in-residence or field projects in professional service programs under the direction of the faculty or designated practitioners. A detailed project plan must be submitted for faculty approval prior to registration.

74.400 Communication Disorders Workshop

3 semester hours

Specialized study of communicatively handicapped persons, new technology in the field of communication disorders.

74.401 Sign to Voice Interpreting

3 semester hours

Emphasis on classroom discussion and laboratory work developing skills of comprehending the signed message, forming syntactically and contextually correct English interpretations, and the proper use of the voice.

74.415 Practicum in Interpreting

3 semester hours

Involves the placement of the student in interpreting situations on and off campus to gain "on-the-job" experience. Requires a minimum of 120 interpreting hours.

74.462 Problems in Education of the Deaf/Hard of Hearing

3 semester hours

Addresses the educational problem of hearing loss and the function of teachers in public and private educational settings.

74.469 Experience in Education of the Deaf/Hard of Hearing

1-3 semester hours

Provides experience working under supervision with deaf and hard of hearing children in a demonstration classroom or field facility.

Prerequisite: Consent of the instructor

74.480 Independent Study and Research 1-3 semester hours

Permits students to work under faculty guidance when particular needs cannot be met by regularly scheduled courses. Learning experiences may include library research or creative academic projects. Nature and scope of the project determine semester hours awarded.

74.490 Counseling Needs of Communicatively Disordered Individuals and Their Families 3 semester hours

Helps students to identify counseling needs of communicatively disabled individuals and their families and to provide basic, shortterm counseling. Introduces counseling strategies in individual and group settings as appropriate to schools and speech and hearing clinics. Open to students who do not intend to enroll in the graduate program in education of the hearing impaired.

Prerequisite: Student teaching, practicum or internship

Faculty Credentials

ARTHUR G. DIGNAN

B.A., Gallandet University; M.A., California State University at Northridge; M.Ed., East Central University

JUDITH M. HIRSHFELD

B.S., M.A., Temple University; C.A.G.S., Boston University

GERALD W. POWERS

B.A., University of Massachusetts; M.Ed., University of New Hampshire; Ed.D., University of Northern Colorado

CARROLL J. REDFERN

B.S., Johnson E. Smith University; M.S., Bloomsburg State College; Ed.D., Lehigh University

DONALD R. RUBEL

B.S., Bloomsburg University

SAMUEL B. SLIKE

B.S., The Pennsylvania State University; M.S., University of Scranton; D.Ed., The Pennsylvania State University

Department of Communication Studies

College of Arts and Sciences

Chairperson

Mary Kenny Badami

Director of Theater

Assistant Professors

Karen Anselm Bruce Candlish Michael Collins

Degree Program

Bachelor of Arts in Theater Arts

A total of 42 semester hours is required for a major in theater arts.

Bachelor of Science in Education

See the section on *Secondary Education* on page 176 for detailed information on this degree program and the Communication Certification which offers an option in theater.

Goals and Objectives

The division of theater arts is committed to providing a strong undergraduate program for its majors and minors in the study and practice of theater, to giving support to the university's general education curriculum, and to enhancing the cultural life of the campus community. All courses are taught by professionals in the field. Students in the major are expected to demonstrate a working knowledge of historical and contemporary theories and practices in dramatic literature, design, and performance. A degree in theater arts provides successful students with a solid background for achievement in graduate studies and career possibilities as performers, artists, managers, and technicians in professional theater and related fields such as film and television.

Required Courses

A total of 27 semester hours in required courses must be taken by theater arts majors. Required courses include: 26.102, 26.108 (must be taken for a total of 6 semesters), 26.112 or 26.316, 26.211 or 26.345, 26.215, 26.321, 26.341, 26.416, and 26.490 (a seminar in script analysis).

When students acquire junior standing, they must declare an emphasis area. Requirements for emphasis areas are:

Performance – 15 semester hours

26.112 or 26.316 (choose the course not previously taken from the required course listing), 26.200, 26.451, 26.490 (a seminar in stage make-up and seminar in advanced scene study).

Design Technology – 15 semester hours

26.211 or 26.345 (choose the course not previously taken from the required course listing), 26.251, 26.311, 26.414, 26.490 (a seminar in technical problems).

General - 15 semester hours

26.112 or 26.316 (choose the course not previously taken from the required course listing), 26.211 or 26.345 (choose the course not previously taken from the required course listing), 26.219, and one course each selected from Performance and Design Technology.

General Education Courses

Recommended General Education courses include: 30.101 and 35.101.

The Bloomsburg Players

The Bloomsburg Players is the theater division's cocurricular producing and support organization. Membership includes majors and minors, students with professional ambition as well as those who share a love of the art and process as an avocation.

THEATER ARTS (Code 26)

26.102 Introduction to Theater Arts 26.208 3 semester hours

Presents a survey of the literature, production, and criticism of the theater. Required for theater majors.

26.108 Theater Practicum

1 semester hour

Participation in plays: acting or technical work. Grade awarded each semester. Participation for two semesters for 1 semester hour of credit. May be repeated for maximum of 3 semester hours.

26.112 Fundamentals of Acting

3 semester hours

Introduces the theories and techniques of acting. Provides for individual and group exercises.

26.200 Experimental Movement

3 semester hours

Exercises and methods explored to support the vocal and physical demands of performance for the stage.

26.209 Theater Appreciation

3 semester hours

Presents a survey of all aspects of theater: acting, criticism, design, directing, history, and production.

26.211 Theater Production/Stagecraft 3 semester hours

Studies basic stagecraft: scene construction, painting, drafting, and crewing of a show. Laboratory work required.

26.215 History of the Theater

Spring 3 semester hours

Surveys structures, production practices,

plays and the theater's function in societies from ritual beginnings through the 19th century.

26.219 Children's Theater

26.319

3 semester hours

A survey of history, theory, and production of theater for young audiences.

26.251 Theory of Stage Lighting and Design / 26.314

3 semester hours

Provides for intensive study of theory and design of lighting of a production supplemented by applied work on productions. Laboratory hours required.

26.311 Stage Design

3 semester hours

An introduction to basic movements and the methods, approaches, tools, materials, and visual concepts of scene design.

26.316 Play Directing

3 semester hours

An overview of the principles and techniques of directing and the collaborative process with an introduction to script analysis needed for concept development.

Prerequisite: One course in theater

26.321 Theater and Stage Management 3 semester hours

Prepares students for professionalism in production of plays and the management of a theater company.

26.340 Scriptwriting

3 semester hours

Studies dramatic structure, types, and styles of drama. Students are required to write scripts for stage, film, radio, or television. Prerequisite: One writing course or consent of the instructor

26.341 Fundamentals of Theater Design

3 semester hours

An introduction to the elements of designing scenery, costumes, and lighting as they relate to the components of a theatrical production.

26.345 Costume Construction

3 semester hours

Basic techniques and approaches to costume construction for the stage.

26.414 Costuming for the Stage

3 semester hours

The study and application of costume design for the theater including methods, tools, materials, and visual concepts.

26.416 Modern Theater

3 semester hours

Continues the study of theater history from 19th century through the theater of today. Prerequisite: 26.215 or consent of instructor

26.451 Advanced Acting

3 semester hours

Character analysis based on scriptwork. Students begin to focus on particular areas of development.

26.470 Independent Study

1-3 semester hours

Provides for individual work and study in one of the areas of theater. Student finds faculty sponsor and prepares a written proposal, which requires departmental recommendation and dean's approval, arranged through the chairperson. See section on *Independent Study* on page 10.

26,490 Seminar: Theater

3 semester hours

Provides for a concentrated study of an individual artist, a period or a movement in theater. Offered on demand.

Prerequisite: 9 semester hours in theater or consent of the instructor

Faculty Credentials

KAREN ANSELM

Costume Designer

B.A., University of Pittsburgh; M.F.A., Carnegie Mellon University

MARY KENNY BADAMI

B.S., Fordham University School of Education; M.A., Hunter College; Ph.D., Northwestern University

BRUCE CANDLISH

Scenographer

B.A., San Jose State University; M.F.A., The Pennsylvania State University

MICHAEL COLLINS

Director of Theater

B.A., Northeast Missouri State University; M.F.A. Purdue University



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Prepared as of June 15, 1993

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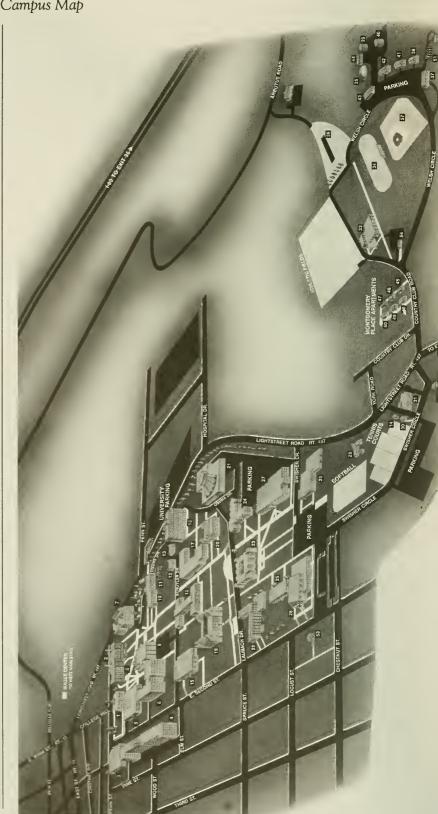
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- 1. Carver Hall
- 2. Heating Plant
 3. Tri-Level Parking
- 4. Elwell Residence Hall
 - 5. Scranton Commons
- 5. Schuylkill Residence Hall
- 7. Old Science Hall
- 8. Lycoming Residence Hall
 - 9. Kehr Union Building
- 10. Montour Residence Hall 11. Greenhouse
- 12. Carpenter's Shop
- 13. Walter Simon Hall
 - 14. May Building
- 15. University Bookstore and University Police
 - 16. Luzerne Residence Hall
- Northumberland Residence Hall
 Columbia Residence Hall
- 19. Ben Franklin Hall (Admissions Office)
- 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 Center for Human Services
 - 28. Waller Administration Building 29. President's Residence (Buckalew Place)
- 30. Physical Education Facility 31. Boyd Buckingham Maintenance Center
 - 32. Fenstemaker Alumni House
 - 33. Nelson Field House 34. Redman Stadium
- 35. Dome Storage Facility 36. Storage
- 37. Army ROTC Office 38. Department of General Services Office
 - 39/40 Water Storage 41. Ground Crew Office
- 43/44 Storage 45-50 Montgomery Place Apartments
 - 51. Greenhouse 53. Wilson House
- 54. Monty's Delicatessen
 - Litwhiler Field
 Magee Center

President's Office	Carver Hall	4526
Professional Studies,	Office of the Dean	
College of	3105 McCormick Human Services Center	4005
Registrar's Office	6 Ben Franklin Hall	4263
Residence Life Office	Elwell Residence Hall	4089
Student Activities	Kehr Union	4346
Student Life Office	Office of the Vice President for Student Life	
	11 Ben Franklin Hall	4065
University Advancement	Office of Vice President for University Advancement	
	Carver Hall	4524
University Relations	104 Waller Administration Building44	11/4412
General Mailing Address:	Bloomsburg University	
	Bloomsburg, PA 17815-1301	

Above locations may be influenced by campus construction, but telephone extensions will remain as listed.

Safety and Security Information Emergency Telephone Numbers

Ambulance	784-7911
BeSAFe Hotline	Information on safety and security issues on campus2723
Bloomsburg Hospital	
Emergency Service	
Emergencies on Campus	University Police Emergency Number
Fire	Bloomsburg Fire Department
Geisinger Medical Center	
Emergency Department	
Information, Referral,	
Active Listening	
and Crisis Intervention,	
call TAP-Line	

State System of Higher Education

Bloomsburg

Bloomsburg, PA 17815