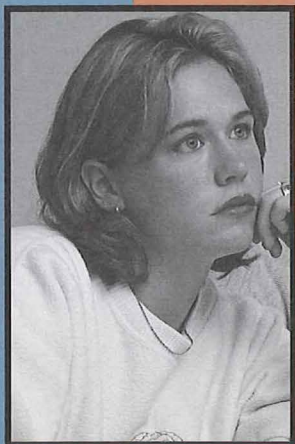


If you are unable to access the information in the Kutztown University Undergraduate Course Catalog, please contact the Registrar's Office at 610-683-4485.

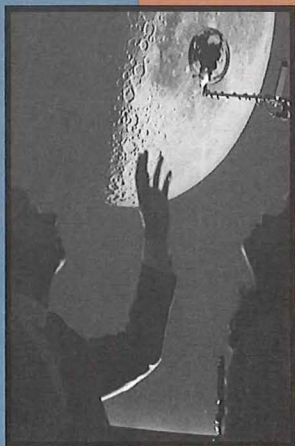
# Kutztown University

Undergraduate Bulletin 1998-2000

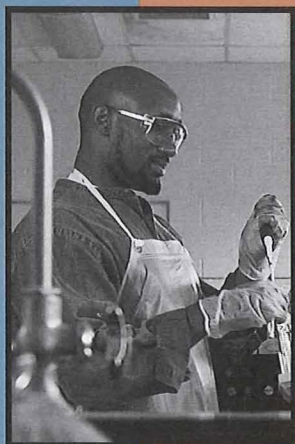
Think,



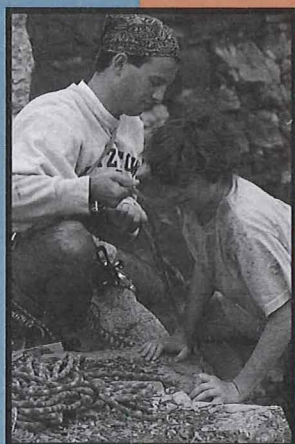
dream,



study,



succeed.



## **REGULATIONS SUBJECT TO CHANGE**

This bulletin provides information about Kutztown University and its programs. The contents of this bulletin are not to be considered binding or a contract between the University and its students.

Each step of the educational process, from admission through graduation, requires continuing review and appropriate approval by University officials. The University, therefore, reserves the right to change the requirements and regulations contained in this document.

The provisions of this catalog are not intended to create any substantive rights beyond those created by the Commonwealth of Pennsylvania and are not intended to create, in and of themselves, any cause of action against the State System of Higher Education, the Board of Governors, the Chancellor, an individual, President or University, or any other officer, agency, agent or employee of the State System of Higher Education.

**The material in this catalog was compiled in January 1998.**

# ***KUTZTOWN UNIVERSITY UNDERGRADUATE BULLETIN 1998-2000***

## **ACCREDITATION**

Kutztown University is accredited by the  
National Council for Accreditation of Teacher Education,  
National League for Nursing,  
The Middle States Association of Colleges and Secondary Schools,  
the Pennsylvania Department of Education,  
and the  
State System of Higher Education.

## **MEMBERSHIP ELIGIBILITY**

Kutztown University is approved for membership eligibility  
by the American Association of University Women.

KUTZTOWN, PENNSYLVANIA 19530



# Communications Directory

For further information on any of the material contained in the catalog, contact the administrators listed below. Please address inquiries for general information about Kutztown University to Richard A. Morrison, Director of Public Relations. The University telephone number is (610) 683-4000.

Academic Advisement .....	Lisa Ladd-Kidder Director of Academic Advisement
Academic Affairs .....	Dr. Linda Goldberg Provost and Vice President for Academic Affairs
Admission to the University .....	Dr. Robert McGowan Director of Admissions
Assistance: work, scholarships, loans .....	Ms. Anita Faust Director of Financial Aid
Athletics: games, schedules, policies .....	Mr. Clark Yeager Director of Athletics
Book Store .....	Ms. Paula Carroll Bookstore Manager
Business College .....	Mr. Theodore A. Hartz Dean, College of Business
Career Services .....	Mr. Larry S. Sechney Director of Career Services
Fees, bills, refunds .....	Ms. Donna Wagaman Bursar
Extended Learning .....	Dr. William Bruce Ezell Director of Graduate Studies and Extended Learning
Grades: grading and academic standards .....	Dr. John A. Erdmann Registrar
Graduate Studies .....	Dr. William Bruce Ezell Dean of Graduate Studies
Liberal Arts and Sciences .....	Dr. Carl Brunner Dean of Liberal Arts and Sciences
Library: research, fines, borrowing rules .....	Ms. Margaret Devlin Director of Library Services
Housing .....	Mr. Kent Dahlquist Director of Housing and Residence Life
Public Safety .....	Mr. William F. Mioskie Director of Public Safety
Student Teaching .....	Dr. Allan N. Chasse Coordinator of Student Teaching
Teacher Education .....	Dr. U. Mae Reck Dean of Education
Transcripts of Credits .....	Dr. John A. Erdmann Registrar
Transfer students .....	Dr. Robert McGowan Director of Admissions
Veterans' Affairs .....	Mr. Raymond Bazylak Director of Veterans' Affairs
Visual and Performing Arts .....	Dr. Arthur Bloom Dean, College of Visual and Performing Arts

# Contents

2	<b>Communications Directory</b>
4	<b>University Calendar</b>
6	<b>A Message from the President</b>
7	<b>The University</b>
12	<b>Admission</b>
16	<b>Academic Regulations</b>
27	<b>Fees</b>
30	<b>Financial Aid</b>
37	<b>Divisions and Curricula</b>
42	<b>Student Life</b>
47	<b>College of Business</b>
52	<b>College of Visual and Performing Arts</b>
67	<b>College of Liberal Arts and Sciences</b>
82	<b>College of Education</b>
97	<b>Graduation and Certification</b>
100	<b>College of Graduate Studies</b>
101	<b>Undergraduate Course Descriptions</b>
208	<b>Administration and Faculty</b>
219	<b>Emeriti</b>
221	<b>Index</b>

# Kutztown University

## 1998 - 1999 Calendar

### FALL SEMESTER — 1998

Residence Hall Occupancy Begins (New Students) — 1:00 PM .....	Saturday, August 29
Residence Hall Occupancy Begins (Incumbents) — 10:00 AM .....	Sunday, August 30
Faculty Meeting .....	Monday, August 31
Classes Start — 6:00 PM .....	Monday, August 31
Undergraduate Late Registration .....	Tuesday, September 1
Graduate Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Tuesday, September 1 – Thursday, September 3
Extended Learning Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Tuesday, September 1
Saturday Classes Start .....	Saturday, September 5
Labor Day Holiday .....	Monday, September 7
Columbus Day Holiday .....	Monday, October 12
Follow Monday Schedule .....	Tuesday, October 13
Mid Term .....	Friday, October 23
Thanksgiving Recess: Begins — 6:00 PM .....	Wednesday, November 25
Ends — 8:00 AM .....	Monday, November 30
Last Day of Regular Classes .....	Friday, December 11
Final Examinations Begin .....	Monday, December 14
Final Examinations End .....	Friday, December 18
Residence Hall Occupancy Ends .....	Friday, December 18
Last Saturday Class and Exam .....	Saturday, December 19
December Commencement .....	Saturday, December 19
Last Day of Fall Semester .....	Saturday, December 19

### WINTER BREAK SESSION — 1999

Begins — Classes will be held on Saturday, January 9, 1999 .....	Tuesday, January 4
Martin Luther King Holiday .....	Monday, January 18
Ends .....	Friday, January 22

### SPRING SEMESTER — 1999

Residence Hall Occupancy Begins — 3:00 PM .....	Sunday, January 24
Classes Start — 8:00 AM .....	Monday, January 25
Undergraduate Late Registration .....	Monday, January 25
Graduate Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Monday, January 25 - Wednesday, January 27
Extended Learning Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Monday, January 25
Saturday Classes Start .....	Saturday, January 30
President's Holiday .....	Monday, February 15
Follow Monday Schedule .....	Tuesday, February 16
Mid Term .....	Friday, March 12
Mid Term Recess: Begins — 6:00 PM .....	Friday, March 12
Ends — 8:00 AM .....	Monday, March 22
Spring Recess: Begins — 6:00 PM .....	Thursday, April 1
Ends — 8:00 AM .....	Tuesday, April 6
Last Day of Regular Classes .....	Friday, May 14
Final Examinations Begin .....	Monday, May 17
Final Examinations End .....	Friday, May 21
Residence Hall Occupancy Ends .....	Friday, May 21
Last Saturday Class and Exam .....	Saturday, May 22
May Commencement .....	Saturday, May 22
Last Day of Semester .....	Saturday, May 22

### SUMMER SESSION — 1999

#### SESSION I

Begins .....	Monday, June 7
Ends — (Classes Tuesday thru Friday) .....	Friday, July 9

#### SESSION II

Begins .....	Monday, July 12
Ends — (Classes Tuesday thru Friday) .....	Thursday, August 12

# Kutztown University

## 1999 - 2000 Calendar

### FALL SEMESTER — 1999

Residence Hall Occupancy Begins (New Students) — 1:00 PM .....	Saturday, August 28
Residence Hall Occupancy Begins (Incumbents) — TBA .....	Monday, August 30
Faculty Meeting .....	Monday, August 30
Classes Start — 6:00 PM .....	Monday, August 30
Undergraduate Late Registration .....	Tuesday, August 31
Graduate Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Tuesday, August 31 – Thursday, September 2
Extended Learning Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Tuesday, August 31
Saturday Classes Start .....	Saturday, September 4
Labor Day Holiday .....	Monday, September 6
Columbus Day Holiday .....	Monday, October 11
Follow Monday Schedule .....	Tuesday, October 12
Mid Term .....	Friday, October 22
Thanksgiving Recess: Begins — 6:00 PM .....	Wednesday, November 24
Ends — 8:00 AM .....	Monday, November 29
Last Day of Regular Classes .....	Friday, December 10
Final Examinations Begin .....	Monday, December 13
Final Examinations End .....	Friday, December 17
Residence Hall Occupancy Ends .....	Friday, December 17
Last Saturday Class and Exams .....	Saturday, December 18
December Commencement .....	Saturday, December 18
Last Day of Semester .....	Saturday, December 18

### WINTER BREAK SESSION — 2000

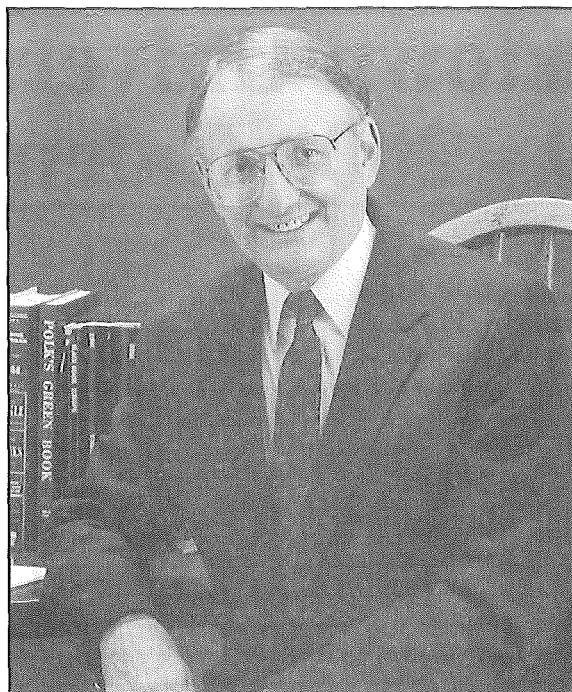
Begins — Classes will be held on Saturday, January 8, 2000 .....	Monday, January 3
Martin Luther King Holiday .....	Monday, January 17
Ends .....	Friday, January 21

### SPRING SEMESTER — 2000

Residence Hall Occupancy Begins — 3:00 PM .....	Sunday, January 23
Classes Start — 8:00 AM .....	Monday, January 24
Undergraduate Late Registration .....	Monday, January 24
Graduate Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Monday, January 24 - Wednesday, January 26
Extended Learning Late Registration — Evening Hours: 5:30 - 7:00 PM .....	Monday, January 24
Saturday Classes Start .....	Saturday, January 29
President's Holiday .....	Monday, February 21
Follow Monday Schedule .....	Tuesday, February 22
Mid Term .....	Friday, March 17
Mid Term Recess: Begins — 6:00 PM .....	Friday, March 17
Ends — 8:00 AM .....	Monday, March 27
Spring Recess: Begins — 6:00 PM .....	Thursday, April 20
Ends — 8:00 AM .....	Tuesday, April 25
Last Day of Regular Classes .....	Friday, May 12
Final Examinations Begin .....	Monday, May 15
Final Examinations End .....	Friday, May 19
Residence Hall Occupancy Ends .....	Friday, May 19
Last Saturday Class and Exam .....	Saturday, May 20
May Commencement .....	Saturday, May 20
Last Day of Semester .....	Saturday, May 20

### SUMMER SESSION — 2000

SESSION I		
Begins .....	Monday, June 5	Ends .....
SESSION II		Thursday, July 7
Begins .....	Monday, July 10	Ends .....
		Thursday, August 10



### **A Message from the President**

With rich traditions and exciting, innovative programs, Kutztown University is moving forward toward the 21st century.

From its beginning as a normal school in 1866, the institution has evolved into a strong, multi-faceted university, offering a wide spectrum of programs at the undergraduate and graduate levels.

We are proud of our faculty which works hard to provide students with sound, usable education. Administration, faculty and staff share the common goal of providing students with knowledge and skills that will prepare them for happy, prosperous and meaningful lives.

The University is constantly changing to keep up with rapidly advancing technology and provide our students with the best opportunities to compete in today's work force. New programs continue to emerge to meet the needs of an increasingly technological society, with opportunities available for valuable hands-on experience in many areas.

We are always looking for ways to improve and expand, while maintaining the high quality of our traditional programs in education, business, the visual arts, the performing arts, the liberal arts, and the sciences.

Kutztown University welcomes students from all backgrounds who want to be part of our ever-growing and changing institution. Kutztown University is a place to learn and grow, surrounded by people and ideas that will challenge and perhaps change your perceptions of the world. We invite you to join us.

David E. McFarland  
President



# The University

## STATEMENT OF MISSION

Kutztown University as a comprehensive university serves the people of the Commonwealth of Pennsylvania as a center for education in the arts and sciences, teacher education, business, and visual and performing arts. The University provides access and opportunities for intellectual, aesthetic, social and physical development. The University's Mission is to:

1. Pursue a commitment to academic excellence.
2. Provide for all students opportunities to increase their appreciation and knowledge of the physical universe, of human society and cultural diversity, and of values, through general education, major study and co-curricular programming.
3. Develop the student's ability to think critically and constructively, to read, write, and speak effectively, and to exercise good judgement.
4. Provide a quality of campus life which will encourage the growth of self-esteem, respect for the beliefs of others, and the open exchange of ideas.
5. Respond to the diverse needs of society by ensuring equal access to its educational programs and services without regard for race, gender, creed, age, or national origin.
6. Offer a variety of professional and pre-professional programs which combine the broadening effects of the liberal arts and sciences with progressively specialized studies and experiences leading to careers and entrance level professional competencies.

7. Offer post baccalaureate programs in liberal arts and sciences, education, business, and visual and performing arts which enable students to further their scholarship and professional competencies.
8. Provide opportunities through extended programs whereby students pursue interests and enhance skills and professional competencies through credit and non-credit courses.
9. Contribute to the increase of knowledge through the encouragement of research and creative activities.
10. Serve as a center for cultural activities.
11. Provide leadership and support services for schools, businesses, industries, government, health and other appropriate agencies.

## University Goals Academic Effectiveness

- I. Students receiving undergraduate degrees will:
  - A. Be able to exercise reasoning through logical argument and problem solving.
  - B. Be able to read critically and with comprehension.
  - C. Be able to write English clearly, grammatically, and effectively.
  - D. Be able to communicate orally with clarity and precision.
  - E. Be able to understand the structure of mathematics and be able to perform mathematical functions with

sufficient skill to apply them to their professional and personal pursuits.

- F. Possess a heightened sensitivity toward the human spirit and particularly for the ethical and social considerations inherent in making decisions.
- G. Understand the aesthetic dimension of human experience to the degree necessary to appreciate the fine and performing arts.
- H. Possess a fundamental understanding of and appreciation for the interrelationships between the biological and physical universe and society.
- I. Possess a fundamental understanding of the history, the system of government, and the economics of the United States, and acquire the values and attitudes necessary for responsible citizenship.
- J. Possess a fundamental understanding of and appreciation for the history and the interrelationships of the nations and the cultures of the world.
- K. Possess a fundamental awareness and appreciation of human diversity and its importance for society.
- L. Appreciate the importance of health, fitness and learning throughout their personal and professional lives.

- M. Be able to access a variety of sources of information to fulfill needs for continued learning throughout their personal and professional lives.
- N. Be able to understand and use computers in their personal and professional lives.
- II. Students receiving undergraduate degrees in professional programs should possess sufficient knowledge and skills to perform successfully in related positions of employment.
- III. Students receiving undergraduate degrees who apply and are accepted for graduate study should be competent to perform graduate level work.
- IV. Students receiving graduate degrees should:
  - A. Be competent to pursue increasingly independent scholarship, and creative investigation in their disciplines. This may include further graduate study.
  - B. Be competent to perform at more advanced levels of employment in their professions.
- V. Non-degree students completing credit or non-credit degree work through Extended Learning should be able to achieve their personal or professional objectives.
- VI. Conditionally admitted students satisfactorily completing developmental programs should demonstrate competence to continue course work toward an undergraduate degree.

## **Student Services Effectiveness**

### **Students will receive services which permit:**

- A. The achievement of maximum benefit from classroom instruction with minimum distractions caused by personal problems.
- B. The development of a meaningful rapport with and a strong sense of involvement in the University community through cooperation and communication with faculty, administration, student affairs personnel, and support staff.
- C. The acquisition of maximum knowledge of themselves and a full exploration of their natural development stages in relationship to their environment.
- D. The development of sense of personal and pro-social responsibility to the University and to the larger community.
- E. An awareness of and a sensitivity to the varied and often conflicting freedoms, values and attitudes which confront them in a university setting.
- F. A clean, safe, healthy environment in which to carry out their classroom and extra-curricular activities.
- G. Activities related to admission, registration, and financial aid to be carried out with maximum support and assistance.
- H. An awareness of the appropriate options and choices for careers, employment, or postgraduate study available to them by the time they graduate.
- I. The cultivation of, the appreciation for, and a sensitivity to human diversity and its importance for the campus and societal communities.

## **Institutional Advancement**

- A. The University should identify those specific populations qualified to pursue university study, and ensure that they are aware of its programs and services.
- B. The University should build positive relationships with its alumni, promoting their active participation in alumni programs and their support of the University.
- C. The University should project a positive image to the general public through its programs, services, and accomplishments.
- D. The University should seek public and private resources to support its educational opportunities and needs, and student scholarships.
- E. The University should provide leadership in creating cooperative partnerships with educational agencies, businesses, industries, government, health, and other organizations.
- F. The University should initiate positive relationships with the local communities.

## **Human Resources Development**

- A. The University should promote an active affirmative action policy among faculty, administrators, staff, and students.
- B. The University, within its policies of equal opportunity and affirmative action, should consciously seek the highest quality in the selection, performance and retention, and professional development of faculty, administrators, and staff.

**HISTORY** — Shortly after the close of the Civil War, residents of upper Berks County were able to turn their thoughts from mere survival on the frontier toward building a modern society. One of their first concerns was the preparation of young people to take their places in the developing industrial economy.

Before any of these dreams could be realized the inadequate number of school teachers had to be bolstered. To that end, on September 15, 1866, the Keystone Normal School was established on what is now the site of Old Main.

The depth and sophistication of teacher training continued to increase with the complexity of industrialized society, however, and the needs of a burgeoning industrialization in the region placed more and more demands on teacher preparation. Kutztown University moved to fill this need and, in 1928, the institution was designated Kutztown State Teacher's College and authorized to confer the Bachelor's degree.

Eventually, the area's need for liberally educated personnel to staff its industries outstripped the need for teachers. In 1960, the Department of Education changed the institution's name to Kutztown State College and diversified its goals toward "A center for learning for the best possible education of the youth of Pennsylvania in the arts and sciences and preparation of able and dedicated teachers."

Since 1960 the school has grown, teaching a student body of more than 7,700 with more than 365 faculty members. Bachelor of Arts degrees are offered in 23 subjects, Bachelor of Science in 13, Bachelor of Science in Business Administration in seven, Bachelor of Science in Education in four, and Bachelor of Science in Nursing, Bachelor of Fine Arts in four, while master's degrees are offered in 21 subjects. In addition, the university reaches out to the community with

credit and non-credit Extended Learning courses. On July 1, 1983, the institution became Kutztown University of Pennsylvania of the State System of Higher Education. Since that time the institution has continued to grow and diversify in facilities, research and staff toward the future.

During the 1991-92 academic year, Kutztown University celebrated its 125th year of service to the region and community.

**LOCATION** — Perhaps one of the most fortunate aspects of living and studying at Kutztown University is its attractive location. The campus rolls across approximately 325 acres of hilltop overlooking the Borough of Kutztown, Pennsylvania. The town itself is home to about 5,000 residents and is just a five-minute walk from campus.

**TRANSPORTATION** — Kutztown is located halfway between Reading and Allentown, Pennsylvania on U.S. Route 222. Either city may be reached in half an hour from campus by car or by a bus that picks up passengers in the center of campus. Philadelphia can be reached in an hour and a half over good roads and New York City in about 2 1/2 hours by car or by an excellent express bus service originating five minutes from campus in the Borough of Kutztown.

Interstate Route 78 can be reached in less than ten minutes from campus. The Allentown-Bethlehem-Easton airport in Allentown is within approximately 45 minutes by car and has a busy schedule of flights direct to major cities all over the country as well as connector flights to Philadelphia and Pittsburgh.

## RESOURCES PROVIDED

The Rohrbach Library is a focal point of academic life at Kutztown University. The Library houses collections of books, periodicals, pamphlets, news-papers, maps, microforms, non-print media, and microcomputer programs. At present the collection consists of more than 420,000 volumes of books and periodical materials, representative federal and state documents, 45,000 maps, subscriptions to approximately 2,000 periodicals and newspapers, 15,000 units of non-print media, and more than 1,000,000 units of various kinds of micro-forms. Electronic resources include full-text articles from general, Business and Health periodicals, CD-ROM databases, such as ERIC and PsycLit, and the Encyclopedia Britannica. The map collection is one of the finest in the state and includes Braille maps, city plans, and topographic and raised relief maps. Over 11,000 carefully chosen volumes on all facets of Russian Culture symbolize Kutztown's enthusiastic support of the state-owned universities' World Culture Program.

The Curriculum Materials Center provides in-service teachers and other interested patrons with a wide range of the newest teaching and learning resources for examination, evaluation, and stimulus for curriculum revision.

The Audiovisual Communications and Technology Department, located in the Audiovisual Center on the ground floor of the Library, administers a comprehensive collection of audio-visual materials and equipment. Additionally, the Audiovisual Center houses a microcomputer laboratory, micro-computer software collection and a materials production area.

Rohrbach Library provides a wide range of services to patrons. These include the circulation of open-collection and reserve materials, on-line data base searching, and interlibrary loan. Computer-based,

on-line data base searching produces custom-made bibliographies on complex subjects for students and faculty pursuing advanced research. Interlibrary loan is available to obtain from libraries throughout the United States books and periodical articles not owned by Kutztown University.

The Rohrbach Library staff is responsible for developing and organizing the Library collections and for administering programs of library orientation and bibliographic instruction. Librarians meet frequently with classes from all areas of curriculum to discuss specialized research tools. The staff encourage students, faculty, and other patrons to become familiar with Library services and collections and to take advantage of this important intellectual resource as they participate in the various programs of study at the University.

**OTHER RESOURCES**—Other resources provided by the university to support the academic programs include a modern science complex which includes classrooms; up-to-date laboratories; an astronomical observatory and planetarium; the Sharadin Art Gallery; broadcasting quality television studios; a modern language laboratory installation; and a Speech Clinic for students. Also available are various content area tutoring labs, peer tutoring, Supplemental Instruction, reading and study skills instruction, and a microcomputer lab.

A large scale UNISYS A-11 computer supports the administrative needs of the University. A UNISYS U6000/70 Parallel Processing, UNIX based mini computer supports the serious academic computer user. Additionally, there are two terminal rooms and seven micro computer labs, or classrooms, on campus. In total the University supports well over 1,000 micros, terminals and printers for students, faculty and administrative use. The University is currently developing a campus-wide computer network which will electronically link faculty, students and staff to resources throughout the world.

## SERVICES TO THE SCHOOL DISTRICTS

Upon request, the university makes available to school districts clinical, consultative, and placement services, campus conferences, loan exhibits, and audiovisual materials. An individual teacher or a school district may arrange for the use of these services by communicating with the director of the particular service required.

**Center for Communication Disorders**—In conjunction with the degree in Speech-Language Pathology, the University offers the services of speech clinicians to university students and to the public. Individual diagnosis of and therapy for problems in voice, articulation, language, fluency and hearing are provided under the close supervision of a clinical supervisor.

The Center for Communication Disorders also conducts the University required speech and voice screening test to incoming freshmen and transfer students.

**Placement Service**—The placement service of the university maintains a close relationship with members of the faculty and supervisors of student teachers. Requests from school administrators for teachers are acknowledged, arrangements for personal interviews are made, and confidential credentials are issued.

**Professional Conferences**—Special conferences in library science, art education, elementary education, secondary education, special education, history and many other academic fields are sponsored annually or biennially by the university. The programs are designed as a service to teachers and administrators in eastern Pennsylvania.

**Audiovisual Center**—The Kutztown University Audiovisual Center maintains a large collection of audiovisual materials and microcomputer hardware and software. Whenever

possible the Center cooperates with local school districts and public agencies by sharing these resources. A comprehensive description of services and policies may be obtained by contacting the Chair of the Department of Audiovisual Communications and Technology.

**Television Services**—The University's Department of Television Services provides video support to members of the University and local communities. The Department provides services such as satellite downlinks of programming, teleconferencing, videotaping presentations and/or guest lecturers, and producing programming in support of numerous educational objectives. Additional information can be obtained by contacting the Department.

## STUDENT TEACHING ABROAD

This program provides a student an opportunity to complete the second assignment of student teaching, either semester, in the British school system. This program is designed to give student teachers an opportunity to become acquainted with another teaching system, learn about the English culture and to travel internationally. The program has arrangements with The College of St. Mark and St. John, Plymouth, Edge Hill College, Ormskirk and Porlock Hall, London. Selection is made through an interview and recommendation process. For additional information contact the Director of Student Teaching, Beekey Education Center, Kutztown University.

## **BUCKINGHAMSHIRE COLLEGE EXCHANGE PROGRAM**

Kutztown University and Buckinghamshire College in High Wycombe, England, exchange an equal number of students each Fall semester. This exchange is open only to BUSINESS, LIBERAL ARTS AND SCIENCES and VISUAL ARTS students and is designed to give participating students an opportunity to become acquainted with international aspects of business.

Selection is made by a committee of faculty, students, and administrators. For further information, contact the Dean of the College in which the student is enrolled.

## **COLLEGE OF BUSINESS EXCHANGE PROGRAM OPPORTUNITIES**

The College of Business at Kutztown University is a leader in International Business Education and students have the exciting opportunity to study in international partner institutions throughout the world. In a global marketplace, students who travel and study in another country gain an employment edge on the competition. Exchange opportunities are available in England, Hungary, Denmark, Spain, Holland and Germany. Additional information and application materials are available in the Dean's Office, College of Business.

## **COLLEGE OF BUSINESS INTERSHIP OPPORTUNITIES**

Students in the College of Business have the opportunity to earn professional experience and academic credit by participating in the College of Business Internship Program. Qualified students, who have completed approximately 80 credits, provide valuable service to companies and institutions while gaining invaluable experience and developing professionally. It is a true "win-win" situation for all. Three to six internship

credits may be earned. Information and application forms are available by contacting the College of Business Internship Coordinator or the Dean's Office, College of Business.

## **INTERNATIONAL STUDENT EXCHANGE PROGRAM**

Kutztown University is a member of the International Student Exchange Program, which permits our students to choose from over 60 institutions located in 27 countries worldwide. Students from any major may study abroad for one academic year. Details and application forms may be obtained from the International Studies Office.

## **EXTENDED LEARNING**

The Office of Extended Learning (formerly Continuing Education) was created in 1974 in an effort to meet the educational, training, and personal learning needs (credit and non-credit) of the community at large.

The university defines extended learning as lifelong learning opportunities across the lifespan. These learning opportunities may take the form of credit course work as a means of transition to regular degree admission; educational experiences for enjoyment and self-fulfillment through workshops and short courses; and programs which meet the training and professional development needs of business, public schools, social agencies, health care organizations, and the other professions.

For information concerning Extended Learning, see ADMISSION.

**THE SUMMER SESSIONS** — a wide selection of courses and special programs, both graduate and undergraduate, is offered during two five-week sessions each summer.

Summer School permits academic acceleration for students enrolled during the regular session or provides them an opportunity to make up scholastic deficiencies. Graduate students can further their professional education while prospective freshmen may get an early start for the Fall semester in the "Early Bird" Program. Students may register for up to nine (9) semester hours each session.

A summer catalog is published each March. Further information may be obtained by writing to the Director of Summer Sessions or the Dean of Graduate Studies.



# Undergraduate Admission

## GENERAL ADMISSION REQUIREMENTS

Admission is granted on the basis of the following principles: general scholarship, character and personality as they may be determined by scholastic records, recommendations, and aptitude tests. Candidates for admission must satisfy the requirements outlined below:

1. General scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the credentials evaluation division of the Pennsylvania Department of Education.
2. A multiple regression formula weighting the high school rank and SAT/ACT scores is used to determine a Predicted Grade Point Average for the applicant. The University reviews and establishes the Predicted Grade Point Average necessary for admission.
3. Either the Scholastic Aptitude Test or the American College Test is required of all candidates. The purpose of these examinations is to provide further evidence of ability to do college work. It is the responsibility of the applicant to request the forwarding of his scores to the Director of Admission, Kutztown University. Students admitted with a score below an established level on the verbal portion of the college boards will be required to satisfactorily pass the developmental course in English. Students admitted with a score below an established level on the math portion of the college boards will be required to satisfactorily pass the developmental course in math. Any student required to take one developmental course must enroll in that

course during the first semester of attendance. Any student who is required to take both Developmental Mathematics and Developmental English need not enroll in both courses in the first semester. Regardless of requirements for developmental courses, the student must remove all deficiencies within two regular semesters, or prior to enrollment in the third regular semester. Any student who according to conditions of admission has not completed requirements in developmental courses prior to enrollment in the third regular semester will be dropped from the rolls of the university.

It is recommended that either SAT/ACT test be taken in the fall of the senior year.

4. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director, or other school officials acquainted with the student.
5. All students must complete and submit a Health Record form which includes information updating immunizations no later than the sixth week of the first semester attended. The Health Record form is distributed with orientation materials or is available through the Health Center.
6. For admission to a special curriculum, the university may require the candidate to take an appropriate aptitude test or supply further evidence of ability to succeed in his chosen field.

## THE ADMISSION OF FRESHMEN —

All applications for admission should be made to the Director of Admission, Kutztown University, Kutztown, Pennsylvania 19530.

The items necessary to complete for admission are as follows:

1. Application for admission form.
2. \$25.00 application processing fee (not refundable nor applicable to any university fee).
3. Secondary school transcript.
4. Results of either the Scholastic Aptitude Test or the American College Test.
5. Health Form (after the student has been accepted).
6. DD 214 where applicable (veterans only).

No action on any application will be taken by the admissions committee until all the necessary steps for admission have been completed and all required information is in the hands of the committee.

Prospective students are required to obtain a social security number before applying for admission.

## THE ADMISSION OF TRANSFER

**STUDENTS** — Applicants desiring admission with advanced standing must complete all admission requirements of freshmen. SAT or ACT scores are not necessary if at least 30 credit hours have been completed. Admission is competitive within a 4.00 - 2.00 range.

Applicants prior to registration at Kutztown University must request the registrars of the colleges previously attended to send official transcripts of work completed at those institutions

directly to the Admission Office. A statement of honorable dismissal must be indicated on the transcript. A transfer student, to be considered for admission, must present evidence of a 4.00 - 2.00 cumulative quality point average, on a scale where C is equal to 2.0 for all work taken at colleges previously attended. Students who gain admission to Kutztown University fraudulently will be dropped from the rolls of the university.

In addition to previous College Transcripts all transfer and re-entry students seeking admission to an undergraduate degree program at Kutztown University are required to submit an official final high school transcript stating the date of high school graduation or a copy of a GED Diploma issued by the Pennsylvania Department of Education granting equivalency of a high school diploma. This document must be received in order to begin processing the admission application. Applicants must request their high school to send the document which has the school seal, signature of the designated school official and date of graduation affixed. The document must arrive in a sealed envelope to be considered "official."

## **REQUIREMENTS FOR ADMISSION TO TEACHER CERTIFICATION PROGRAMS**

### **1. STAGE I: Requirements upon Admission to a Teacher Education Certification Program at Kutztown University.**

- a. In order to receive STAGE I approval, incoming freshmen must have a projected quality point average (pqpa) of 2.20 and satisfy all University Admission Policy criteria and conditions. Students with a pqpa of less than 2.20 require approval of the University Undergraduate Admissions Committee.

- b. Change of major students must meet departmental requirements in order to receive STAGE I approval.

### **2. STAGE II: Requirements for Teacher Education Students Who Have Earned 64 Semester Hours.**

- a. Each student must present evidence of a minimum of 30 hours of observation that they have completed in approved educational settings pertinent to their major. Entering freshmen must complete this requirement prior to 64 semester hours. Re-entry, transfer and change of major students must complete the observation requirement prior to the professional semester. For all elementary and special education majors, the observation requirement must be completed by the second week of the semester prior to the professional semester.
- b. Effective with the Fall 1996 semester, all newly admitted, re-entry, and transfer students into professional education programs must achieve a 2.5 cumulative quality point average with the completion of 64 s.h. Students entering prior to Fall 1996 must achieve a 2.25 overall quality point average with the completion of 64 s.h.
- c. The student must complete the basic speech, mathematics and English composition courses with minimum grades of "C."
- d. The student must pass the University speech screening test.

## **NOTE:**

- a. In order to receive STAGE II clearance to the certification program, the student must meet all outlined criteria. If a student fails to meet any of the above, STAGE II clearance will be denied. In addition, STAGE II clearance may be denied to any student for whom three letters are received from KU faculty, KU administrators, and/or public school personnel documenting the student's unsuitability for teaching. Continuation or denial of continuation in the teacher education program will be determined by the dean, coordinator of student teaching and appropriate department members.
- b. Students denied Stage II clearance:
  - (1) will not be permitted to pursue their Professional Semester or Early Field Experience.
  - (2) will not be permitted to pursue a teacher education degree program.
  - (3) will not be permitted to enroll in additional courses within teacher education programs.
  - (4) must declare a major outside of teacher education if they plan to continue at Kutztown University.
- c. Stage II Requirements 2b and 2c must be met within one semester of matriculation by re-entry, transfer, continuing matriculation, and change of major students with 64 semester hours or more.

3. **STAGE III:** Requirement for Teacher Education Students Prior To Student Teaching and Practicum.

- a. The student must successfully complete the Professional Semester or Early Field Experience. This requires a satisfactory recommendation from his/her cooperating teacher and the Kutztown University coordinator.
- b. The student must complete all courses in the major that are required for student teaching and achieve a 2.50 quality point average in the major.
- c. The student must complete 90 credit hours and achieve a 2.50 quality point average overall.
- d. The student must receive a positive recommendation from the departmental chairperson or screening committee. This recommendation will be withheld if three letters are received from faculty documenting the student's unsuitability for teaching.
- e. Prior to registering for the student teaching semester, all student teachers must obtain a totally clear criminal report as generated under Act 34 and Act 151. Students who are not residents of Pennsylvania must obtain a criminal history report from the Federal Bureau of Investigation. Students convicted of any offense during the time of their student teaching may be removed from their student teaching assignment.

**NOTE:**

- a. Students will be permitted to participate in Student Teaching and Practicum **ONLY** if they have met all criteria for STAGE III.
- b. Transfer students, re-entry students and students changing their major to a teacher education program **MUST** meet all requirements and submit all data necessary for STAGE III approval.
- c. Teacher education students planning to do student teaching **MUST** complete all requirements for student teaching during the semester prior to student teaching.

4. **STAGE IV:** Requirements for Teacher Education Students to apply for a teaching certificate.

- a. Students are required to meet all STAGE I, II, and III requirements.
- b. Students are required to pass PRAXIS II: Core Battery of the National Teachers Examination (NTE) — General Knowledge, Communication Skills, and Professional Knowledge — and the appropriate Specialty Area Test as required by the Pennsylvania Department of Education (PDE) in order to be eligible for recommendation for certification.
- c. Students should take PRAXIS II: Core Battery — General Knowledge and Communication — of the NTE at the beginning of their junior year. PRAXIS II: Core Battery — Professional Knowledge — and the appropriate Specialty Area Test should be taken during the senior year and no later than the student teaching semester.

- d. *Effective with the Fall 1996 semester, all newly admitted, re-entry, and transfer students into professional education programs must achieve a "C" or above in EDU 100 and in their professional education courses as determined by the program areas.*
- e. *Effective with the Fall 1996 semester, all newly admitted, re-entry, and transfer students into professional education programs must achieve a "C" or above in BOTH sessions of Student Teaching.*

**NOTE:**

Students have the right to appeal STAGE I, II, III decisions to the Dean of the College of Education who chairs the Council for Teacher Education.

**ACT 34 — PENNSYLVANIA STATE POLICE CRIMINAL RECORD CHECK  
ACT 151 — PENNSYLVANIA CHILD ABUSE HISTORY CLEARANCE —**

Prior to registering for the student teaching semester, all student teachers must obtain a totally clear criminal report as generated under Act 34 and Act 151. Students who are not residents of Pennsylvania must obtain a criminal history report from the Federal Bureau of Investigation. Students convicted of any offense during the time of their student teaching may be removed from their student teaching assignment.

**THE ADMISSION OF FORMER STUDENTS —**

Students who withdraw from the university and later apply for re-admission are required to meet the curriculum requirements effective at the time of their re-entry. Decisions of the committee on admission are final.

The university welcomes the return to higher education of students who for various reasons did not complete their degrees. Such students should be aware that courses taken in their major discipline ten years or more prior to the resumption of study perhaps will not be counted toward

graduation. Such courses may no longer be considered to be current or be required for the degree. The registrar determines the acceptability of these credits. However, students may request the re-evaluation of the Registrar's decision by submitting a petition to the Undergraduate Exceptions Committee.

#### **ADVANCED REGISTRATION DEPOSIT**

— An advanced registration deposit of \$100 must be paid when an applicant receives a letter of admission. The Advanced Registration Deposit will be credited to basic fees upon registration. This fee is non-refundable under any conditions.

Students who were not in attendance in the previous semester, when re-admitted, are required to pay the \$100 deposit fee.

For additional information concerning admission to undergraduate degree programs contact the Admission Office, Kutztown University, Kutztown, PA 19530 or phone (610) 683-4060.

**HOUSING DEPOSIT** — A new student who has requested on-campus housing on the admission application **and** has paid the \$100 Advanced Registration Deposit (ARD) will be identified to the Housing and Residence Life Office. When on-campus housing is available, the Housing and Residence Life Office will send the student a housing "offer." This offer will include a housing contract and a statement form. The statement form will indicate a due date for payment of the required \$125 housing deposit and directions for completion of the statement form. To accept the housing offer and secure on-campus housing, the \$125 housing deposit must be paid by the date specified on the statement form. The housing deposit is applied towards the student's housing fee for the **spring** semester.

The \$125 housing deposit is refundable if the student cancels housing by the established deadline dates.

Housing spaces are reserved for entering first-time freshmen. Housing for entering transfer and readmit students is limited, and is based on the number of spaces filled by incumbent resident students and the number of housing cancellations received. Housing for incumbent students currently living off-campus, or commuting, is limited and is based on availability. **Admission to the University does not guarantee housing.**

#### **REGULATIONS CONCERNING REGISTRATION**

— The last day of official "Drop-Add" period shall be the latest date for enrollment as a full-time student in the Fall/Spring semesters.

**LATE REGISTRATION** — The official registration date for each semester is published in the Calendar of Events on the insert in this catalog. Any student registering during or after late registration will be charged the normal late registration fee.

#### **CHANGE OF NAME AND/OR**

**ADDRESS** — Once enrolled, students who change their address must do so in writing by filling out a form in the Registrar's Office or by mailing a letter to the Registrar's Office.

## **EXTENDED LEARNING**

### **UNDERGRADUATE CREDIT COURSE WORK AVAILABLE THROUGH EXTENDED LEARNING**

Evening and off-campus undergraduate credit courses are open on a space-available basis to all adults whose qualifications indicate that they are able to complete the courses successfully. Admission to course work at the university does not mean admission to a degree program. Students registering for undergraduate credit courses may take up to a total of 21 credit hours of work through Extended Learning, but no more than 9 hours in a given semester. Students wishing to continue taking credit work after 21 hours must make formal application as a degree candidate through the Office of Admission. Students who are registered through Extended Learning may apply for admission to the university before reaching the 21-hour limit, with the understanding that they will be evaluated for regular admission based on criteria applied by the Office of Admissions. Once students request formal admission as degree candidates and are subsequently admitted, they will be assigned advisors from an appropriate academic discipline.

### **ACADEMIC INFORMATION FOR EXTENDED LEARNING STUDENTS**

Initial information concerning the general education curriculum core may be obtained by contacting the university's Office of Extended Learning at (610) 683-1382. This office is located in Room 108, Graduate Center and is open from 8:00 am to 12:00 noon and from 1:00 to 4:30 pm weekdays during the academic year, including summer.

# Academic Regulations

## CLASS ATTENDANCE

Regular class attendance is expected. Students should not be absent from classes without adequate reason.

Students have the right to expect that the criteria for student evaluation will be explained at the beginning of the course. An instructor need not allow a student to make up any work, normally graded in that course, which is missed as a result of an unexcused absence.

Excused absences include but are not limited to illness, scheduled university-related activities, death in the family, jury duty, and impassable roads.

## COURSE AND SCHEDULE SELECTION

**The ultimate responsibility for compliance with academic requirements for graduation and selection of courses and class schedules rests entirely with the student.**

**Faculty Advisor** — Although course and program planning is the responsibility of the student, each student is assigned a faculty advisor in the student's major field of interest who will provide assistance in course selection. Each faculty advisor designates certain hours when students in classes and assigned advisees may schedule meetings regarding work in courses or other problems. Office hours are posted at each faculty office. Faculty office hours are also available in the Office of the Dean of Academic Services.

**CREDIT FOR COURSES** — No credit can be given for courses for which students are not officially registered in the Office of the Registrar.

**PASS/FAIL** — Students having completed at least 32 semester hours of college-level work with at least a 2.75 average may take one course per semester on a pass/fail basis provided that no more than 18 semester hours in the undergraduate program (exclusive of Physical Education) would be taken on that basis.

Only courses in General Education permitted under ""electives"" in Categories II-V can be taken pass/fail. Pass/fail is also an option for ""free electives"" or ""Arts and Sciences electives"" if the student's major program includes these areas. Students should be careful in selecting courses for this procedure because courses that are prescribed in the major program including the specified electives under the major, concentration, or concomitant courses cannot be taken pass/fail.

The pass/fail option is available only during a Fall or Spring semester.

In order to take a course for pass/fail, a student registers for pass/fail with his/her advisor at the time of advisement.

The pass/fail form must be presented by the student at incumbent registration.

The student may change his/her mind but must notify the Registrar in writing that he/she wishes to select the normal grading system for a specific course. This change must be done before the first class meeting.

Evaluation for course work under pass/fail which would constitute ""A"" or ""B"" or ""C"" work will receive a grade of ""pass." Evaluation which could constitute ""D"" work will receive the notation of ""no credit." Work which would normally be evaluated as ""F""

will count as ""Fail." The determination of the grade, A, B, C, D, F, I, Pass or Fail will be made by the instructor at the end of the course. A pass/fail grade will not be computed in a student's semester or cumulative average, but credit for the course in the case of a ""pass"" will count toward credits needed for graduation.

Any student who withdraws from a course he/she is taking on a pass/fail basis after the last day to withdraw from a course without the possibility of penalty shall receive either a grade of Withdrawn Passing or Withdrawn Failing (based upon the student's performance at the time of withdrawal). Any student taking a course on a pass/fail basis who withdraws from the course in the period of two weeks before the first day of final examinations would receive an automatic grade of Withdrawn Failing. The grade of Withdrawn Passing or Withdrawn Failing would not be computed in either the semester index or cumulative quality point average.

**AUDITING COURSES** — Students may take courses ""not for credit"" provided there is room in the class after all registrations for credit have been handled. The student pays full fee for auditing and may audit no more than one course per semester.

Under auditing privileges, students are not required to take examinations and may take such only with approval of the instructor. No grade will be given in the course. Once the student has enrolled ""Not for Credit," enrollment status may not be changed to ""credit"" except through special action by the Undergraduate Exceptions Committee upon receipt of approval from the department chairman and the appropriate college dean. Once a student has enrolled in a course for credit a change to ""Not For Credit"" status is not permitted.



## SCHEDULE AND CURRICULUM CHANGES

**Changes in Schedules** — Changes in schedules will be made only during the official "Drop and Add" period as published for each semester.

### Change of Major, Minor, or Academic Advisor

The general University policy regarding eligibility for a change of major is that any student in good academic standing may request a change of major. A student who is on "Academic Warning" or "Academic Probation" must regain the minimum level of quality point average required for admission to the next semester of study in order to request a change of major. Because a certain college and/or department may have additional criteria which must be fulfilled before approval for a change of major is given, the student should check the college and departmental requirements carefully.

Students who wish to change into the "Undeclared" category may do so by requesting such a change with the Dean of the College of Liberal Arts and Sciences. Students who are on "Academic Warning" or "Academic Probation" are permitted to change into the "Undeclared" category.

All changes of major, minor, or academic advisor are made to be effective during the Drop/Add period of either the Fall or Spring semester. Requests for a change of major, minor, or academic advisor, which are completed during a Drop/Add period, will take effect immediately. Requests for a change of major, minor, or academic advisor, which are completed after a Drop/Add period, will be processed, but will not take effect until the following semester. A student who changes into a new major/minor, adds an additional major/minor, or re-enters a previous major/minor program must comply with all course and degree requirements which are in force as of the effective date of the change, addition, or re-entry.

A student who wishes to change his/her major, minor, or academic advisor should go to the following offices to initiate the process for formal change:

1. to add a major in the College of Business — go to the Dean of the College.
2. to add a major in the College of Education — go to the specific departmental chairperson.
3. to add a major/minor in the College of Liberal Arts and Sciences — go to the specific departmental chairperson.
4. to add a major/minor in the College of the Visual and Performing Arts — go to the specific departmental chairperson.

## WITHDRAWALS

### Withdrawal from a Course —

When a student registers for classes, the student is responsible for those classes. To be relieved of this responsibility, the student must officially withdraw from those classes through the Registrar's Office. Failure to withdraw from a class for which a student registered but is not attending will result in a grade of "F" for that course.

The latest day for withdrawal from a course without academic penalty is the last day of the sixth week of that semester. Withdrawal between that time and two weeks time prior to the beginning of final examinations will be recorded as "WP" or "WF" on the basis of the achievement at that point. Withdrawal within two weeks of the beginning of final examinations automatically will result in a failing grade. "WF" will be computed as an "F".

Any student who withdraws from a course being taken on a pass/fail basis after the last day to withdraw from a course without the possibility of penalty shall receive either grade of Withdrawn Passing or Withdrawn

Failing (based on the student's performance at the time of withdrawal). Any student taking a course on a pass/fail basis who withdraws from the course in the period of two weeks before the first day of final examinations would receive an automatic grade of Withdrawn Failing. The grade of Withdrawn Passing or Withdrawn Failing would not be computed in either the semester index or cumulative quality point average.

The latest date for withdrawal from a course without penalty in a summer session is determined and published prior to specific summer sessions according to prorated academic policy in effect for the regular semesters. Withdrawal after that date will be recorded as "WP" or "WF" on the basis of achievement at that point. "WF" will be computed as an "F."

### Withdrawal from the University —

Any student dropping out of the university prior to graduation must officially withdraw. This is accomplished by completing formal withdrawal forms available in the Counseling Center located in the Stratton Administration Building. All withdrawals from the university must be initiated in the Counseling Center. Failure to follow this procedure when withdrawing from the university may result in failing grades in all courses being taken at the time of withdrawal. The date the Registrar is notified is the official date of withdrawal.

If withdrawal from the university is initiated within the first six weeks of the semester, no academic penalty will be recorded. Withdrawal from the university after that date will result in a "WP" or "WF" recorded for each class carried depending upon achievement at that point as reported by the respective instructors. Any "WF" will be computed as an "F."

For extenuating circumstances as verified by the Counseling Center or Health Center, and with the approval of the Undergraduate Exceptions Committee, a student can receive a "W" for all courses when withdrawing from the university.

## GRADING

The system of grading used at Kutztown University is as follows:

A – excellent    B – above average  
C – average      D – below average  
F – failure      I – incomplete

An "I" grade will be considered as a failure until the condition has been removed. A grade of "I" indicates that the student has not satisfied all requirements of a given course. All deficiencies must be removed by the end of the ninth week of the next regular semester. This deadline does not negate the authority of the instructor to impose a deadline that is earlier than the end of the ninth week of the next regular semester. Failure to meet this requirement automatically changes the "I" to "F."

## DEAN'S LIST

At the end of each semester a scholarship list, known as the Dean's List, is made public. Eligibility for inclusion on the list is determined by a semester quality point average of 3.60 provided the student is registered for at least 12 credits under letter grading and is pursuing study for a degree at Kutztown University.

## GRADUATION WITH HONOR —

Kutztown University recognizes a student's scholastic achievement upon graduation by recording honors on the permanent record and in the commencement program. The cumulative quality point average necessary for this distinction is: with honor (cum laude) 3.40; with high honor (magna cum laude) 3.60 and with highest honor (summa cum laude) 3.80.

## CLASSIFICATION

Students are classified as freshmen until they have earned 32 credits; as sophomores when they have earned between 33 and 64 credits; as juniors when they have earned between 65 and 96 credits, and as seniors after they have earned 96 credits.

The credits used to determine the classification of students include those earned at this university and those earned at other institutions accepted by Kutztown University on the basis of official transcripts received from those institutions.

## QUALITY POINT AVERAGE

The quality point average is a measure of a student's academic standing. For purposes of computing the quality points earned, each letter grade carries a given number of quality points as shown:

A carries 4 quality points  
B carries 3 quality points  
C carries 2 quality points  
D carries 1 quality point  
F carries 0 quality points

To determine the quality point average for a given semester, use the formula indicated:

COURSE	SEMESTER HOURS	GRADE	SH x QP	TOTAL Q.P.
Course I	3	A	3x4	12
Course II	3	B	3x3	9
Course III	2	C	2x2	4
Course IV	3	D	3x1	3
Course V	2	F	2x0	0
Totals	13			28
Quality Point Average (Q.P.A.)				2.15

The cumulative quality point average is determined by dividing the total of all quality points earned by the total semester hours of all credits attempted. An exception to this occurs when a student repeats a course, whereupon the credits attempted the first time the course was taken will not be part of the divisor. Students may repeat only courses in which they initially received a "D" or an "F."

Because a repeat course can affect the cumulative quality point average significantly, it is important that the student make certain that the records show all repeat courses.

The Q.P.A. in a student's major program is based on all courses taken **which the department allows to count toward the major**, regardless of whether **the student uses the courses to fulfill major program requirements or as electives or concomitant courses or within General Education**. Multiple prefix courses are counted in the total number of credits allowable in a student's major even if they are taken with a prefix other than the student's major. This includes courses taken under general education.

**Please note: Grades earned in courses taken at another institution will not be included in determining a student's quality point average as only grades earned at Kutztown University affect this average.**

## ACADEMIC ELIGIBILITY

All newly admitted, re-entry and transfer students must meet the following minimum requirements of Grade Point Average (GPA) for continuing enrollment in good standing.

## FULL-TIME ENROLLMENT IN GOOD STANDING BEYOND THE SECOND REGULAR SEMESTER

Admission to the second regular semester and to all subsequent semesters ..... 2.00

## PART-TIME ENROLLMENT IN GOOD STANDING

Minimum of 24 semester hours attempted and every 12 credits thereafter ..... 2.00

A cumulative quality point average (QPA) of 2.0 or higher is required of all students by the end of their second full-time semester or at the completion of 24 semester hours for part-time students at Kutztown University. Students earning a quality point average lower than 2.0 at the completion of their first semester will receive a **LETTER OF NOTIFICATION** indicating the student is not meeting university standards and calling attention to the support services that the student may use to remediate academic difficulties.

## ACADEMIC WARNING

If, at the completion of the second semester or any subsequent semester, a student's cumulative QPA falls below 2.0, he/she will receive an **ACADEMIC WARNING** for the following semester. Part-time students will be evaluated every 12 credits beginning with the completion of 24 credits and will receive an **ACADEMIC WARNING** whenever this evaluation shows their QPA to have fallen below 2.0. A student is allowed only one semester of **ACADEMIC WARNING**.

In an **ACADEMIC WARNING** semester, the student:

- is required to see his/her faculty advisor and to use University support services, such as the office of University Counseling Services and the Department of Developmental Studies to remediate academic difficulties.
- may lose eligibility to receive financial aid if in the 5th semester or beyond.
- may register for no more than 13 credits for the subsequent semester.
- may not request a Leave of Absence

Should the cumulative QPA of any student who has received an **ACADEMIC WARNING** fall below 2.0, the student will be placed on

**ACADEMIC PROBATION** for the subsequent semester. A part-time student who has received an **ACADEMIC WARNING** must bring his/her cumulative QPA up to 2.0 or higher within 12 semester credits attempted, or be placed on **ACADEMIC PROBATION**.

Any student who withdraws from the University while under **ACADEMIC WARNING**, during the period in which students receive a grade of "WP/WF", will be considered to have completed a semester under **ACADEMIC WARNING** and will be readmitted only under **ACADEMIC PROBATION**.

## ACADEMIC PROBATION

Should the cumulative QPA of any student who has received an **ACADEMIC WARNING** fall below 2.0, the student will be placed on **ACADEMIC PROBATION** for the subsequent semester. A part-time student who has received an **ACADEMIC WARNING** must bring his/her cumulative QPA up to 2.0 or higher within 12 semester credits attempted, or be placed on **ACADEMIC PROBATION**. During the semester of **ACADEMIC PROBATION** the student:

- is not considered to be in good academic standing.
- is limited to 13 semester credit hours.
- is required to see his/her faculty advisor and to use University support services, such as the office of University Counseling Services and the Department of Developmental Studies to remediate academic difficulties.
- may not request a change of major other than to Undeclared.
- may not request a Leave of Absence
- may lose eligibility to receive financial aid if in the 5th semester or beyond.
- is prohibited from participating in any intercollegiate activities or leadership positions in student organizations.
- is prohibited from selecting courses for the subsequent semester or session.

No exception to the conditions of **ACADEMIC PROBATION** may be made without *prior* approval of the Undergraduate Exceptions Committee.

If, at the conclusion of the semester under **ACADEMIC PROBATION**, a student's cumulative QPA has not reached a 2.0, the student will be **DISMISSED** from the University. **UNDER POLICY OF THE UNIVERSITY, DISMISSAL IS EFFECTIVE IMMEDIATELY AND INCLUDES THE PROHIBITION OF FURTHER STUDY DURING THE BREAK SESSION OR DURING THE SUMMER SESSIONS.** If a student under **ACADEMIC PROBATION** earns the QPA required for good standing, but then again falls below the required minimum QPA, the student will be automatically **DISMISSED**.

Each student is entitled to receive one **ACADEMIC WARNING** and to be placed on one semester of **ACADEMIC PROBATION**. These semesters may be consecutive or they may be separated by one or more semesters with a cumulative QPA of 2.0 or higher.

Should a student under **ACADEMIC PROBATION** voluntarily withdraw from the University, before the "WP/WF" period, the student may seek readmission. Readmission will be considered only after the lapse of one calendar year following the semester of voluntary withdrawal and the readmission will be under **ACADEMIC PROBATION**. If the student withdraws during this second semester of **ACADEMIC PROBATION**, he/she may not be readmitted without approval from, and under conditions established by, the Undergraduate Exceptions Committee. Any student who withdraws from the University while under **ACADEMIC PROBATION**, during the period in which students receive a grade of "WP/WF", will be considered to have completed a semester under **ACADEMIC PROBATION** and will be automatically **DISMISSED**.

## DISMISSAL

A student **DISMISSED** from the University following a semester of **ACADEMIC PROBATION** may seek readmission only under unusual circumstances. Although it is unlikely that a student would be readmitted following academic dismissal, in special situations the student may petition the Undergraduate Exceptions Committee to consider a request for readmission and waiver of academic policy under the following conditions.

- Petition for readmission may be submitted only after a lapse of one calendar year.
- Petition for readmission must include a clear statement and evidence indicating the student's potential for academic success.
- If the petition is approved, the student shall be admitted on **ACADEMIC PROBATION** for one semester and must comply with all standing restrictions of **ACADEMIC PROBATION** in addition to requirements imposed by the Undergraduate Exceptions Committee.

## POLICY CONCERNING CHEATING AND PLAGIARISM

If a student has plagiarized or cheated in a course, the faculty member may determine that the student be dismissed from the course and given a grade of "F." The student forfeits all privileges of withdrawal from the course. The action of the faculty member must be made in consultation with the Department Chairperson and the Dean, and the Registrar must be informed.

## ADVANCED STANDING

Advanced standing credit will be given for equivalent courses completed at regionally accredited institutions of collegiate level in which a minimum grade of "C-" is earned. No student may obtain a degree without a minimum residence of one year (thirty-two semester hours) at Kutztown University. Students transferring from another college are subject to the regulations stated on page 12.

Students transferring from any institution of higher education to Kutztown University will be required to complete half of the minimum semester hour degree requirements in their major field at Kutztown University. The courses to be taken to fulfill this requirement must be at the upper level. In some cases, in order to comply with this regulation, a student may be required to complete more than 128 semester hours for the degree.

## 10-YEAR RULE

Kutztown University welcomes the return to higher education of students who for various reasons did not complete their degrees. Such students should be aware that courses taken in their major discipline ten years or more prior to the resumption of study perhaps will not be counted toward graduation. Such courses may no longer be considered to be current or be required for the degree.

The Registrar determines the acceptability of these credits. However, students may request the re-evaluation of the Registrar's decision by submitting a petition to the Undergraduate Exceptions Committee.

### CLEP SUBJECT EXAMINATIONS

American Government  
History of the U.S. I

History of the U.S. II

American Literature  
Analysis and Interpreting Literature  
Calculus with Elementary Function  
College Algebra  
College Algebra — Trigonometry  
Freshman College Composition  
(Including 90-min. essay section)

College French — Level I  
College French — Level II  
College Level German Language  
(1 semester of study/credit)

College Level German Language  
(2 semesters of study/credit)

College Level Spanish Language  
(1 semester of study/credit)

College Level Spanish Language  
(2 semesters of study/credit)

Introduction to Educational Psychology

English Literature

Introduction to Biology

General Chemistry

Introductory Psychology

Human Growth and Development

Principles of Macroeconomics

Principles of Microeconomics

Introductory Sociology

Trigonometry

Western Civilization I

Western Civilization II

### KUTZTOWN UNIVERSITY COURSES

POL 010

HIS 025

HIS 026

ENG 103, 104

ENG 010

MAT 271

MAT 105

MAT 115

ENG 001

FRE 011, 012

FRE 021, 022

GER 011, 012

GER 021, 022

SPA 011, 012

SPA 021, 022

PSY 140

ENG 113, 114

BIO 104

CHM 100, 102

PSY 011

PSY 110

ECO 011

ECO 012

SOC 010

MAT 106

HIS 014

HIS 015

American Government

History of U.S.: The Formative Years  
and the Federal Republic

History of U.S.: The Emergence  
of Modern America

American Literature I & II

Introduction to Literature

Calculus with Analytic Geometry I

Elementary Functions I

Precalculus Mathematics

English Composition I

Elementary French I & II

Intermediate French III & IV

Elementary German I & II

Intermediate German III & IV

Elementary Spanish I & II

Intermediate Spanish III & IV

Educational Psychology

British Literature I & II

Plant Biology & Animal Biology

General Chemistry I & II

General Psychology

Child Psychology

Principles of Economics I

Principles of Economics II

Principles of Sociology

Elementary Functions II

History of Civilization A

History of Civilization B

## CLEP

The College Level Examination Program (CLEP) enables both traditional and non-traditional students to earn college credit by examination. Furthermore, CLEP assists students with prior experience to earn college credit by examination. Kutztown University administers both the General Examination and the Subject Examinations. Advanced standing and credits are awarded for each CLEP examination when the student earns an acceptable score as recognized by Kutztown University.

The General Examination measures college-level achievement in five areas of the Liberal Arts and Sciences. These areas are: Mathematics, Humanities, Natural Sciences, Social Sciences and History.

The CLEP Subject Examination measures achievement in specific college courses. These exams emphasize principles, concepts, relationships, and applications of course materials.

Students may earn up to 21 credits from the battery of CLEP General Examinations in the following distributions: Mathematics – 3 credits; Humanities – 6 credits; Natural Sciences – 6 credits; and Social Sciences & History – 6 credits. For specific CLEP subject Examinations and course credits, please see below.

Students must go to the Career Services Office to arrange for CLEP testing. Those students who have already taken CLEP tests must have their test scores forwarded to the Dean of Academic Services for evaluation. There is an administrative fee for entering a CLEP score on a student's official record.

**ADVANCED PLACEMENT** — Students enrolled in Advanced Placement courses during their senior year of high school are administered the Advanced Placement Examinations in May by the College Entrance Examinations Board, Princeton, New Jersey, to test the extent to which they have succeeded in meeting the university-level demands of the courses. Applicants earning a grade of "3-Qualified" or better are given advanced standing and university credit. Advanced Placement scores should be submitted as soon as possible after formal acceptance to the university. Contact Dean of Academic Services for further information.

## CREDIT BY EXAMINATION

A full-time or part-time student, who by experience or training acquired academic background or comprehension comparable to that required of students who complete a given course, with the written approval of the department chairperson and professor concerned, may submit to the Dean of Academic Services office a request for the privilege of taking an examination in the course for the purpose of establishing credit for it (Challenge Examination). Appropriate forms are available in the Dean of Academic Services office.

A \$25.00 administrative fee is charged for each Challenge Examination. The chairperson of the department concerned and the professor who is designated will prepare and administer a special examination in the course within 60 calendar days from date of approval by the Dean of Academic Services.

After grading the examination "Pass" or "Fail" the chairperson and designated professor will report the result in writing to the Registrar. For a grade of "Pass" the student will earn the academic credits that ordinarily are earned by completing the course covered by the examination. If a grade of "Fail" is achieved, "Fail" will be entered for the course on the student's transcript and the student must take the course for credit. No re-examination may be taken.

### PLEASE NOTE THE FOLLOWING LIMITATIONS:

Approval for credit by examination WILL NOT be granted for students

- who failed the course in a classroom situation
- who failed a challenge examination and want to repeat credit by examination
- who do not have verification of required qualifications by department chairperson and faculty offering the examination

- who do not have the agreement of the department/faculty member to offer the examination

## INDIVIDUALIZED INSTRUCTION

1. In all circumstances of Individualized Instruction:
  - a. The course must be a regular university catalogue course.
  - b. The course is not scheduled to be taught in the particular semester.
  - c. The course assignment must be approved by the Dean of the College in which the course is offered. The student initiates request for Individualized Instruction with the Dean of the College in which the course is offered.
2. Individualized Instruction is available only to degree undergraduate students who have passed no less than 32 semester hours, to degree graduate students only after approval of degree candidacy.
3. Individualized Instruction may be assigned/approved only for required courses in the student's degree curriculum. The student is expected to have observed all required sequence(s) of degree courses and to have registered for courses within the usual schedule of semester offerings appropriate to the student's degree and/or major.
4. A student is permitted to enroll in only one course under Individualized Instruction during the term of study.
5. A student enrolled in a course under Individualized Instruction may meet with the instructor regularly for at least 5 contact hours per credit offered.



Examinations and other work will be comparable to the requirements of the course when regularly offered.

6. Any course in which a student receives a grade of "D" or "F" may not be repeated via Individualized Instruction.

## **INDEPENDENT STUDY**

Independent study is a course of study specific in nature, content and level which is not provided as a regular offering of study at the university. An independent study is designed by a faculty member and student subject to the approval of the department in which the course of study is undertaken. The option of independent study within a department must be listed in the current University Bulletin or have been approved for inclusion in the Bulletin. A student wishing to pursue independent study should contact the chairperson or a faculty member in the department in which the independent study will be taken.

## **UNIVERSITY HONORS PROGRAM**

The University Honors Program is designed to provide advanced academic opportunities for some of the most proficient and highly motivated students at Kutztown University. The program, totally undergraduate in nature, is open to qualified students in the College of Business, the College of Liberal Arts and Sciences, the College of Education and the College of Visual and Performing Arts.

Admission to the program requires attainment of a minimum cumulative quality point average of 3.25, determined upon completion of thirty (30) semester hours and an interview by the Honors Program Director.

An Honors Diploma is awarded to those students in the program who have met all college requirements, have completed at least twenty-one (21) semester hours in Honors courses, and have attained a minimum cumulative quality point average of 3.25, and have completed a two-unit service component. A student, following an exit interview with the program director, may withdraw from the program for any reason. A student whose cumulative average drops below 3.25 will be advised, following one "makeup" semester, to withdraw from the program. A grade of "C" (or lower) shall not count toward Honors Credit. A second "C" or lower grade in an Honors course will lead to automatic exclusion from the program. A student may not enroll in an Honors course on a Pass/Fail option. Undergraduate students who are not members of the Honors Program may take an Honors course if they have a quality point average of 3.0 in fifteen (15) credits taken at the University. Permission of the Honors Program Director is required.

For more information interested students should visit the Honors Program Office, Graduate Center 104.

## **FOREIGN LANGUAGE PLACEMENT POLICY**

All students enrolling in Foreign Language courses will be placed at a level consistent with their past experience in a given language.

Students with 4 years of high school language will be placed in a language course numbered 022 or above.

Students with 3 years of high school language will be placed in a language course numbered 021 or 022.

Students with 2 years of high school language will be placed in a language course numbered 012 or 021.

Students with 1 year of high school language will be placed in a language course numbered 011 or 012.

All exceptions to this policy must be made by the chairperson of the Foreign Language Department. Corrective adjustments in level are relatively easy within the Department, even shortly after the "drop and add" period has ended.

## **ENROLLMENT IN 400 LEVEL COURSES:**

**Courses numbered 400-499 are graduate level courses.**

Enrollment is limited to junior, senior, and graduate students. Undergraduate students at the Junior or Senior level with less than a 2.90 cumulative quality point average must obtain the permission of the instructor.

## **ENROLLMENT IN DEVELOPMENTAL COURSES AND REQUIREMENT FOR COMPLETION AND REMOVAL OF DEFICIENCY**

For incoming freshmen and entering transfer students with fewer than 15 credits, placement in Developmental English and Developmental Mathematics courses is determined by established cutoff scores on the verbal and mathematics Scholastic Aptitude Tests. For students entering the university through the Developmental Summer Program, placement in the Developmental Reading course is determined by results of a standardized reading test.

All developmental course requirements can be satisfied through successful completion of the respective developmental courses. In certain instances, students may be exempted from developmental course requirements on the basis of placement test results.

Any student required to take one developmental course **MUST** enroll in that course during the first semester of attendance. Any student who is required to take Developmental Mathematics, Developmental English,

and Developmental Reading need not enroll in all courses during the first semester, but, all developmental course requirements must be successfully completed before entry into the third regular semester. Students who fail to do so will be dismissed from the university.

**Credits for developmental courses may not be included as part of the total credits required for graduation.**

## **PERMISSION TO STUDY AT ANOTHER COLLEGE OR UNIVERSITY**

Students wishing to study at another college and to transfer the credits earned to Kutztown University must obtain permission, in writing, prior to enrollment.

The following conditions must be met:

1. The college at which the student wishes to study must be a regionally accredited institution of higher education.
2. The student must be currently enrolled and eligible for registration at Kutztown University the next semester. (See section on Quality Point Averages on page 18.)
3. Sixteen (16) semester hours of the last 32 semester hours of credit required for graduation must be completed at this institution. A minimum of thirty-two (32) semester hours must be taken at Kutztown University. Concerning minimum hours in the major, see "Advanced Standing," page 20.

Grades earned in courses taken at another institution will not be included in determining a student's quality grade point average as only grades earned at Kutztown University affect this average. However, a minimum grade of "C" must be earned for the credit to be accepted at Kutztown University.

## **LEAVE OF ABSENCE POLICY**

Students in academic good standing may be granted a leave of absence for medical reasons, study abroad, and other reasons by the Office of the Provost. A leave may be granted for one semester, with the possibility of renewal for a consecutive semester. At the conclusion of the leave a student may register to continue studies without repeating the admissions process. Students must request a leave of absence within the first six weeks of a semester.

## **STUDENT TEACHING PROGRAM**

The university provides for a semester of full-time student teaching in school systems, intermediate units, day care centers, agencies, campus Early Learning Center and Student Teaching Abroad Programs in England.

Students are able to prioritize regions in which they would like to student teach. The university cannot assume the obligation of assigning the student teacher to a specific school or locale.

Fourteen semester hours of student teaching and practicum constitute the minimum requirement in this area of professional education. All persons registering for student teaching shall have completed Stage III of the Requirements for Admission to Teacher Certification Programs.

The student will receive an evaluation and letter grade for seven (7) credits at the end of each student teaching assignment. Four final evaluation forms are placed in the student's file in Career Services.

In Art Education and Library Science, student teaching or library practice is done at the elementary and secondary levels. In Elementary Education students are assigned to an equal period of time of student teaching in primary, and intermediate/middle school classrooms. A student in Early Childhood will receive one assignment in the Early Childhood area.

In Secondary Education a student's specialization permits one assignment of student teaching in a middle school or junior high school and equal time of student teaching in a senior high school.

In Special Education (Speech and Language Pathology) an attempt will be made to have one assignment in a clinical setting and one equal assignment in a school setting.

In Special Education-Elementary (Mentally and/or Physically Handicapped) students are assigned to an equal period of time of student teaching in special education and elementary classrooms since upon successful completion of the program the student is eligible for dual certification. All Special Education majors in M/PH are required to have participatory experiences in areas covered by the certificate.

Special Education-Elementary (Visually Impaired) students are assigned to an equal period of time of student teaching in special education and elementary classrooms since upon successful completion of the program the student is eligible for dual certification.

## **Student Teaching Requirements**

Admission to student teaching is by application to the Director of Student Teaching and fulfillment of the following requirements:

1. Completion of a minimum of 90 semester hours with an overall quality point average (Q.P.A.) of 2.5 and a 2.5 Q.P.A. in major field.
2. Stage II criteria under Requirements for Admission to Teacher Certification Programs must be completed and on file with the department chair before the Application for Student Teaching is processed. Refer to page 13 in the Bulletin for a listing of criteria for Stage I, II, and III under Requirements for Admission to Teacher Certification Programs.

3. Student has met all of the following Stage III requirements during the semester prior to Student Teaching and Practicum:

- a. The student must successfully complete the Professional Semester or Early Field Experience. This requires a satisfactory recommendation from the cooperating teacher and the university coordinator.
- b. The student must complete all courses in the majors that are required for student teaching with a 2.5 point average and achieve a 2.5 quality point average overall.
- c. The student must receive a positive recommendation from the departmental chair or screening committee. This recommendation will be withheld if three letters are received from faculty documenting the student's unsuitability for teaching.
- d. Act 34 or FBI Report and Act 151. These reports must be totally clear of any charges.

The departmental chair or screening committee will meet with students who are deficient. Students have the right to appeal Stage II or Stage III decisions to the Dean of the College of Education who chairs the Council for Teacher Education.

4. The following must be completed and on file in the Student Teaching Office before assignment are released:

- a. application for student teaching;
- b. vita (five copies) using the guidelines available from the Student Teaching Office.
- c. list of courses enrolled in semester prior to student teaching;

- d. pre-student teaching physical examination including a tuberculosis test as directed by the university at the time of registration for the student teaching semester;
- e. certification form PDE 338-C, Application for Professional Personnel Certificate, with a check made payable to Kutztown University for \$15.
- f. copy of test scores from N.T.E. exams.
- g. Act 34 and Act 151, or FBI reports on file in the Student Teaching Office.

## Grade Appeal Policy

### I. Introduction

This grade appeal policy provides a process for redress of grievance between a student and a faculty member concerning a final grade in a course taken at Kutztown University. Two important points to be kept in mind concerning the application of this policy are: (1) all uses of the word "grade" in this policy refer to the *final* grade in a course; (2) the Grade Appeal Board (GAB) may consider approving changes only to P (pass) and W (withdraw). Any requests for changes to specific letter grades, therefore — a change from a D to a C, for example — would not be considered by the GAB.

Consistent with the position of the AAUP, students should have protection through orderly procedures against unsubstantiated academic evaluation. Students who believe that their final course grade reflects unsubstantiated academic evaluation may initiate and pursue a grade change appeal in accordance with provisions of this document. Students shall not suffer academic recrimination

because of participation in this procedure. At the same time, all academic rights and privileges of faculty members are to be honored in this process, and changes in final course grades are to be made only when there is clear evidence of unsubstantiated academic evaluation.

All grade change appeals shall be initiated in a timely fashion. If a grade change appeal is not resolved during the preliminary steps of this procedure, and the student wishes to pursue further an appeal for a change of grade, the student may file a Grade Appeal Petition. (See Section III.a.) This petition must be filed no later than the end of the ninth week of the next regular semester.

### II. Preliminary Steps

In both the preliminary steps outlined here and in the step involving the Grade Appeal Board, the only issue under consideration will be whether or not the student can present evidence that his or her final grade reflects unsubstantiated academic evaluation by the faculty member. Because one of the major responsibilities of the University Ombudsperson is to help both faculty members and students to clarify information about disagreements, the Ombudsperson should be involved early in any grade change appeal. In pursuing a grade change appeal, the student will proceed as follows:

- a. The student shall first discuss the matter with the faculty member directly involved in an attempt to resolve the matter.
- b. If there is no resolution with the faculty member, the student shall discuss the matter with the chairperson of the faculty member's

department, or, if the department chairperson is the person who gave the grade, with the dean of the respective college, who shall attempt to resolve the matter after consideration of the evidence.

- c. If there is no resolution through the department chairperson, the student shall discuss the matter with the dean of the respective college, who shall attempt to resolve the matter after consideration of the evidence.

### III. **Grade Change Appeal Conditions and Procedures**

- a. If no resolution has been reached with the faculty member through the mediation of the department chairperson or the college dean, and the student wishes to pursue further a grade change appeal, the student shall complete a Grade Appeal Petition. This petition is to be secured from and then submitted to the Office of the Vice President for Academic Affairs. It will be forwarded from that office to the chairperson of the Grade Appeal Board. The Grade Appeal Board will not consider complaints that it deems unsubstantiated after review of the petition. The petition shall contain:

1. The names of the student and the faculty member involved in the appeal.
2. A list of the names of those contacted in the student's attempts to resolve the issue (See Section II.), and a statement from the appropriate college dean that the conflict remains unresolved.
3. A clear, concise statement describing the grounds for the appeal.

4. A statement of the resolution requested.

- b. At the beginning of each academic year there will be established a Grade Appeal Board. This board will consist of five tenured faculty members — one chosen from each of the five colleges of the University in an election to be conducted by the Senate Office — and two non-voting student members to be chosen by SGB. The board will elect its own chairperson, who must be a faculty member, and set its own operating procedures (within the guidelines stated here and in Section IV). A copy of the procedures adopted will be submitted to the University Senate for information. These procedures will be taken to APSCUF meet and discuss for approval. These procedures will remain in force until revised or replaced by a subsequent GAB.

The chairperson will be a voting member of the board. At least four favorable votes must be received for approval of a grade change appeal. This board should be so constituted that at least two faculty members will continue serving from one year to the next.

- c. Possible Grade Change Actions

During the preliminary steps (Part II above), a grade change, if made, can be made through regular University channels. The grade assigned is at the discretion of the faculty member who assigned the original grade.

If the faculty member has not agreed to a grade change during the preliminary steps

and the student has appealed to the GAB, the only grades to which the GAB can consider approving changes are P (pass) and W (withdraw).

Even after the appeal has reached the GAB, if the faculty member decides that a grade change is in order, the faculty member may effect said change through the usual University channels. Here, too, the grade assigned is determined by the faculty member. At this point, the student may choose to withdraw, or continue, the appeal.

- d. The GAB chairperson shall notify the student and the faculty member of the time and location at which the board will consider the appeal. The hearing shall be held at the next regularly scheduled meeting of the GAB unless circumstances warrant otherwise. The GAB chairperson shall:

1. Provide the student and the faculty member with a copy of the GAB's rules and procedures for the hearing process.
2. Notify the faculty member, department chairperson, and dean that each may submit a written statement outlining issues of the case from his/her perspective. All statements and materials must be submitted by all parties involved to the committee chairperson no later than six (6) class days prior to the hearing.
3. Provide GAB members with copies of submitted statements and materials no later than three (3) class days prior to the hearing.

- e. The student may withdraw a grade appeal petition at any time by notifying the chairperson of the GAB in writing. The chairperson of the board would then notify all parties involved.
- f. At the conclusion of the hearing, the chairperson of the GAB will forward its decision to the Vice President for Academic Affairs. The decision of the committee is final. The Vice President for Academic Affairs will notify all parties involved (student, faculty member, department chairperson, and dean) of the decision. If the decision includes a change of grade, the Vice President for Academic Affairs will direct the Registrar to make the change and so notify the student and faculty member.

#### IV. *Hearing Process*

The following procedures should be followed by the Grade Appeal Board:

- a. The student and the faculty member have the right to be present during the information gathering portion of any hearing, and both will be given the opportunity to present their cases. The presence of any witnesses supportive of either party shall be the responsibility of the student and/or the faculty member.
- b. Following the presentations of all parties involved, the GAB will meet in closed session to decide on the merits of the petition. Decisions will be forwarded within fifteen (15) class days to the Vice President for Academic Affairs.

- c. In its deliberations, the GAB may consult with appropriate sources of information and/or expertise if such consultation is deemed necessary for the decision-making process. All such sources, along with the reasons for consultation, shall be recorded in the GAB's final report on the appeal. The faculty member and the student shall each receive a copy of the final report.
- d. If circumstances warrant, the GAB chairperson may alter the timeliness contained in this document.

#### V. *Evaluation of Policy*

- a. At the end of each of the first two academic years following implementation of this policy, the Grade Appeal Board will submit to the president of the Senate and the president of APSCUF-KU a written report of the year's activities.
- b. During the third academic year under this policy, the Senate Academic Standards and Policy Committee will recommend either to continue the policy unchanged, to revise it, or to discontinue it. This recommendation is to be approved by both the University Senate and APSCUF.

Original Version Approved  
by University Senate –  
February 2, 1995

Original Version Approved by  
APSCUF Representative Council –  
May 11, 1995

Revised Version Approved by  
APSCUF Representative Council –  
November 16, 1995

Revised Version Presented to Senate  
with No Concerns Voiced –  
December 7, 1995

Approved – Meet and Discuss –  
December 22, 1995

Approved by President –  
December 22, 1995

### **Policy on Academic Forgiveness For Undergraduates**

**Rationale** — Academic readiness and situational factors may affect the academic performance of undergraduate students, especially first-time students, in the university setting. For a variety of reasons, including poor performance, students separate from the university and involve themselves in work and other life experiences. At present, students with a history of poor performance who choose to return to Kutztown University after years of separation often face obstacles created by their previous academic record.

**Policy** — The academic forgiveness policy shall apply to undergraduate students who withdraw from Kutztown University and seek readmission after a period of no less than four years. Upon readmission, students who request academic forgiveness will start with a quality point average of 0.00. The quality point average and individual course grades earned during the previous period of attendance will remain part of the permanent transcript record. A notation will be made on the transcript indicating that the "academic forgiveness" policy was applied and that calculation of the overall quality point average is based solely on grades earned after re-entry. Students will maintain credits earned previously in courses for which a final grade of "C" or better was recorded. As in the case of transfer from another institution, credit toward a degree will not be granted for courses in which a grade less than "C" was earned during the previous period of enrollment. This policy does not replace or alter the "10-year" rule and students must be aware that courses in the major taken over 10 years prior to re-entry may not be applicable toward a degree.

In order to gain benefit from the academic forgiveness policy, the student must petition the Undergraduate Exceptions Committee in order to have this policy applied to him/her. This appeal must be initiated during the first semester of attendance after readmission.

# Fees

All fees indicated in this catalog are correct at the time of publication. The fees are subject to change without notice. For a complete list of current fees, contact the Bursar's Office.

## UNDERGRADUATE FEES FOR ONE ACADEMIC YEAR

	Pennsylvania Residents	Out-of-State Residents
Basic Fee	\$3,468.00	\$ 8,824.00
Student Activities Fee	\$ 130.00	\$ 130.00
Student Union Fee	\$ 172.00	\$ 172.00
Health Center Fee	\$ 102.00	\$ 102.00
Instructional Service Fee	\$ 346.80	\$ 346.80
Books & Supplies (Est.)	\$ 500.00	\$ 500.00
Total - Commuting Students	\$4,718.80	\$10,074.80
Residence Halls	\$2,580.00	\$ 2,580.00
19 Meal Plan (Optimum)	\$1,318.00	\$ 1,318.00
Total - On-campus Students (19 Meals)	\$8,616.80	\$13,972.80

Annual fees are payable on a semester basis. The Basic Fee listed above covers 12 to 18 credit hours per semester. An additional \$144.00 per credit for Pennsylvania residents and \$368.00 per credit for out-of-state residents will be charged for enrolling for greater than 18 credits per semester.

Part-time students are charged the Basic Fee, Student Activity Fee, Health Center Fee, Student Union and Instructional Equipment Fee on a pro-rated per credit basis. (See description of each fee for details of cost per credit.)

## GRADUATE FEES FOR ONE ACADEMIC YEAR

	Pennsylvania Residents	Out-of-State Residents
Basic Fee	\$3,468.00	\$ 6,236.00
Student Union Fee	\$ 172.00	\$ 172.00
Books and Supplies (Est.)	\$ 500.00	\$ 500.00
Health Center Fee	\$ 102.00	\$ 102.00
Instructional Service Fee	\$ 346.80	\$ 346.80
19 Meal Plan (Optimum)	\$1,318.00	\$ 1,318.00

Annual Fees are payable on a semester basis. The Basic Fee listed above covers 9 to 15 credit hours per

semester. Part-time students are charged at a rate of \$193.00 for Pennsylvania residents and \$346.00 for out-of-state residents per credit.

**SUMMER SESSION FEES** — Students attending courses in the Summer Sessions will be subject to all fees on a pro-rated basis. For information concerning the Summer Session Fees, please contact the Bursar's Office.

## DESCRIPTION OF FEES

**ACTIVITY FEE** — A fee of \$65.00 each semester is collected from all full-time students. Students taking from four to eleven credits are charged at the rate of five dollars and forty-two cents (\$5.42) per credit hour. The fees are administered under regulations approved by the President of the University and the Student Government Association. Fees collected are used to cover costs of student activities in athletics, lectures, entertainment, student publications, etc.

**APPLICATION FEE** — A \$25.00 application processing fee is charged for individuals applying for admission to the institution. This fee is non-refundable and is not applicable to any university fee under any conditions.

**ATHLETIC ENRICHMENT FUND FEE** — This fee is charged to first time undergraduate students only. The purpose of the fee is to provide athletic improvements and scholarships. This \$40 fee is non-refundable upon graduation unless the fee was paid prior to the Fall 1995 semester.

**BAD CHECK FEE** — Students issuing bad checks in payment of any university fees will be assessed a \$25.00 handling fee.

**BASIC FEE** — Each undergraduate full-time student is charged a flat rate of \$1,734.00 for Pennsylvania residents and \$4,412.00 for out-of-state residents per semester. Part-time students are assessed the Basic Fee at a rate of \$144.00 per credit for Pennsylvania residents and \$368.00 per credit for out-of-state residents.

**CREDENTIALS FEE** — The following fees are in effect for credential services rendered to education majors by Career Services.

Registered seniors and full-time graduate students can have five free sets of credentials mailed to educational employers.

A charge of \$2.00 per set will be charged for additional sets.

Alumni will be charged \$10.00 for registration which includes mailing five sets of credentials. Additional sets will cost \$2.00 each.

Unofficial credentials will be furnished to individuals with active files at the rate of \$2.00 per set.

**DIPLOMA FEE** — A \$14.00 fee shall be paid by each candidate for a degree to cover the costs of the degree diploma.

**GRADE TRANSCRIPT FEE** — A \$3.00 fee is charged for transcript of records.

**HEALTH CENTER FEE** — A Health Center Fee of \$51.00 per person per semester is charged to all full-time students. The fee is pro-rated for part-time undergraduate and graduate students.

**LATE PAYMENT FEE** — A \$25.00 late payment fee will be assessed if your payment is not received by the due dates indicated on the bill.

**INSTRUCTIONAL SERVICE FEE —**

A fee equivalent to 10% of total tuition is charged to all undergraduate and graduate students. This fee is used to replace classroom equipment and to purchase library books and chance instructional programs.

**LATE REGISTRATION FEE —** A \$25.00 late registration fee is charged for student registration after the established registration day.

**DINING SERVICES —** Dining services offers eight different meal plans. The two types include optimum or traditional. Under each type of plan, students have the choice of selecting 5, 10, 15, or 19 meals per week. All on-campus residents are required to have a 19 or 15 meal plan. Exceptions are made for student teachers.

Optimum plan entitles students to eat their meals within a seven-day period at all the service dining points in the Student Union Building and the South Dining Hall. These plans also come with flex dollars to spend for food. The traditional plans are more structured in that the plans dictate where and when the students may eat their meals. Students on traditional plans may only eat in the South Dining Hall. Special diets are available for students with medical restrictions. Specific details are outlined in the Meal Plan Contracts brochure.

The service dining points in the South Dining Hall include **The Cafe, Pete's Arena and Bag-It**. The Student Union Building offers the **Snack Bar, Pasta Cart and Coffee Cart**.

**ORIENTATION FEE —** A fee of \$60.00 for the two-day program and \$30.00 for the one-day program shall be paid by each new student to defray expenses of an orientation program which is designed to facilitate the social, intellectual and educational adjustment to Kutztown University.

**PRIVATE MUSIC INSTRUCTION FEES**

— **Instruction** — 16 lessons of one-half hour each per week at \$25.00 per semester in addition to the current applicable credit hour fees.

Practice on four-manual Moller organ — one period, Monday through Friday, at \$32.00 per semester in addition to the current applicable credit hour fees.

**PROCESSING FEE —** A processing fee of \$5.00 will be charged all students crediting their records with credit from the College Level Examination Program, advanced placement, or any other credit by examination program.

**RESIDENCE HALL FEES —** The residence hall fee for a regular, triple or quad room, for one semester, is \$1,290.00. The fee for a single room is \$1,478.00 and the fee for a reduced rate triple is \$1,060.00. The fee for a single occupant in a double capacity room, available on a limited basis as determined by the Housing and Residence Life Office, is \$1,687.00. Resident students who arrange for housing services during periods of time when the residence halls are closed pay fees on a pro-rated basis.

**\* Fees are subject to change without notice.**

**STUDENT UNION FEE —** A fee of \$86.00 per person per semester is charged to all full-time students. The fee is prorated for part-time undergraduate and graduate students. The fee is used to pay for the operations of the Student Union Building.

**DEPOSITS****ADVANCE REGISTRATION DEPOSIT —**

An advance Registration Deposit of \$100.00 must be paid when an applicant receives notice of approval of application for admission. Only a certified check or money order in this amount will be credited to Basic Fees upon registration. This fee is non-refundable under any conditions.

**HOUSING DEPOSIT —** A housing deposit of \$125.00 must be paid when a student is offered housing. Deposits for fall semester will be credited to spring semester housing fees. The housing deposit is refundable if housing is cancelled prior to May 1 (for the fall semester), or November 1 (for the spring semester). The deposit is non-refundable if a student cancels housing, withdraws, transfers, breaks contract, or cancels his/her acceptance after these dates.

**KEY CHARGES —** A \$40.00 fee will be assessed for lost residence hall room keys. A \$25.00 fee will be assessed for lost mail box keys.

**DELINQUENT ACCOUNTS**

No student with an account in delinquent status shall be enrolled, graduated or permitted to receive a transcript of records until all outstanding fees have been paid in full.

Any student account in delinquent status at the end of a semester may be placed with the Pennsylvania Office of the Attorney General and/or collection agencies for collection and legal action.

## WITHDRAWAL AND REFUNDS

### WITHDRAWAL FROM INSTITUTION —

Students withdrawing from the institution must inform the Registrar's Office in writing. If withdrawal will result in a refund, an official request should be made in the same correspondence. The official date of withdrawal for purpose of a refund will be the date the Registrar's Office receives notification. The basis of refund will be as follows for the fall and spring semesters:

#### All Fees except meals (not amounts paid)

Prior to and through the University's first full class day .....	100%
After the first full class and through the second week .....	90%
After the second week and through the fourth week .....	50%
After the fourth week and through the eighth week .....	25%
After the eighth week .....	No refund

Students withdrawing from the institution who are residence hall students and/or have a meal plan please see the following sections.

### WITHDRAWAL FROM COURSE(S) —

Changes to course schedules (dropping and/or adding courses) may not be completed until the official drop and add period or thereafter. The refund policy will be applied appropriately based on the date the Registrar is officially notified. If the withdrawal from a course(s) results in a change in status from the full (between 12 to 18 credits) to part-time (less than 12 credits) or from above full-time (greater than 18 credits) to full-time, a student may qualify for a refund. If withdrawal from a course(s) will result in a refund, an official request should be made with the Bursar's Office. The official date of withdrawal for the purpose of a refund will be the date the Registrar's Office receives notification of the withdrawal. The basis of refund will be as follows for the fall and spring semesters:

#### All Fees (except room & meals) (not amounts paid)

During the three days of drop/add .....	100%
First day after drop/add through the second week .....	90%
After the second week and through the fourth week .....	50%
After the fourth week and through the eighth week .....	25%
After the eighth week .....	No Refund

### WITHDRAWAL FROM RESIDENCE

**HALL** — Students who cancel housing after July 1, but are continuing full-time enrollment at Kutztown University, are responsible for payment of the fall and spring semester housing fees. Room fees are refundable according to the policies described in the Housing Contract. Students eligible for a refund will have the refundable balance calculated on a percentage basis, as implemented by the Bursar's Office. The refundable balance for students withdrawing from the University during the semester will be based on the date of official check-out from the residence hall.

The percentage of refund is as follows for the fall and spring semesters:

#### All Fees except meals (not amounts paid)

Prior to and through the University's first full class day .....	100%
After the first full class and through the second week .....	90%
After the second week and through the fourth week .....	50%
After the fourth week and through the eighth week .....	25%
After the eighth week .....	No refund

### WITHDRAWAL FROM MEAL PLAN —

Students who wish to cancel their meal plan must inform the Food Services Contract Administrator in writing. Withdrawal from the residence halls does not automatically cancel a meal plan. If withdrawal from the meal plan will result in a refund, an official request for a refund should be made in the same correspondence. Any refund will be calculated according to the university refund policy.

The official date of withdrawal from the university, used to determine the percentage of refund, will be the date the Registrar's Office is officially notified in writing of the student's intent to withdraw or the date of last use (if later than the official withdrawal date). Part of a week will be charged as a full week.

**NOTE:** Refunds to aid recipients under Title IV of the Federal Higher Education Act, as amended, who are first-time students at the University, will be refunded on a pro-rata basis.



# Financial Aid

## STUDENT FINANCIAL AID

The program of student financial aid is based upon the philosophy that no student who is eligible for enrollment should be denied the opportunity for an education solely because of the lack of financial resources. A basic principle of the Student Financial Aid Program is that the primary responsibility for educational costs must be assumed by the family, including the student. The family's resources, which include the student's savings and other assets and computed expected parental contribution, are supplemented by state and federal government educational grants, private or institutional scholarships, student and parent loans and work study programs.

## APPLICATION PROCEDURES

All students who wish to be considered for financial aid must complete and mail the Free Application for Federal Student Aid (FAFSA). The application is required for determination of eligibility from the following sources: Federal Pell Grant; Federal Family Educational Loan Programs; Federal Supplemental Educational Opportunity Grant; Federal Perkins loan; Federal Work-Study Program and all Institutional aid. The application also contains data elements required by the Pennsylvania Higher Education Assistance Agency for State Grant consideration for Pennsylvania residents. Students are required to reapply annually for federal, state and institutional aid. A student who wishes to apply for a Stafford Student Loan must complete a Stafford loan application in addition to a Free Application for Federal Student Aid. Due to limited available resources, the university is unable to meet full financial need. This emphasizes the importance of meeting required financial aid deadline dates.

## APPLICATION DEADLINES

### **Freshmen/Transfer Students**

Priority filing deadline date for Fall enrollment is March 15 for federal and institutional aid.

### **Continuing Students**

Priority filing date for Fall enrollment is May 1 for federal aid. (For institutional scholarship consideration, continuing students must adhere to a March 15 deadline)

### **PHEAA State Grant**

Deadline date is May 1.

## FINANCIAL AID ELIGIBILITY REQUIREMENTS

Students are determined eligible for federal Title IV financial aid (Pell Grant, Supplemental Educational Opportunity Grant, Perkins Loan, Work Study, Stafford and PLUS Loans) and NJ Class Loans when meeting the following eligibility criteria:

1. Demonstrate financial need, as defined by the individual programs;
2. Be enrolled or accepted as a degree-seeking student;
3. Be a United States citizen or eligible non-citizen;
4. Submit all required/requested forms to the appropriate agency or financial aid office by the established deadline dates;
5. Not owe a refund on a grant or be in default on a loan;
6. Be registered with Selective Service (*males only who have reached their 18th birthday*);
7. Maintain satisfactory academic progress as outlined below.

## ACADEMIC PROGRESS REQUIREMENTS

All students who apply for financial aid (including loans) must satisfy the academic progress requirement which has two parts.

### 1. **EARNED NEW CREDITS REQUIREMENT**

Progress is measured for the academic year based on the student's prior two semesters of enrollment. The total number of **NEW** credits you are required to earn is determined by enrollment on the last day of Drop/Add. Withdrawing (W, WP, or WF) from a course after Drop/Add may mean that a student will be short the number of credits needed for satisfactory academic progress.

## UNDERGRADUATE & TEACHER CERTIFICATION

Enrollment on last day Drop/Add	NEED TO COMPLETE	
	Need to Enrollment for last 2 sems.	Enrolled 1 sem. only (F or Sp)
12 or more crs./sem.	24 crs.	12 crs.
9 - 11.5 crs. per sem.	18 crs.	9 crs.
6 - 8.5 crs. per sem.	12 crs.	6 crs.
Less than 6 crs.	All crs.	All crs.

## GRADUATE STUDENTS

Enrollment on last day Drop/Add	NEED TO COMPLETE	
	Need to Enrollment for last 2 sems.	Enrolled 1 sem. only (F or Sp)
9 or more crs. per sem.	18 crs.	9 crs.
6 - 8.5 crs. per sem.	12 crs.	6 crs.
Less than 6 crs.	All crs.	All crs.

**NOTE:** *If a student repeats a course for which he/she received a "D" grade, the repeated course will not count towards the number of new credits needed to satisfy the above progress requirement.*

## 2. **QUALITY POINT AVERAGE (QPA) REQUIREMENT**

To be eligible for each semester of federal aid, a student may not be entering their fifth semester of attendance or beyond and be on Academic Warning or entering any semester and be on Academic Probation.

## **INSUFFICIENT PROGRESS FOR FINANCIAL AID**

A student may make up credits during the summer at Kutztown or at another institution. However, courses taken elsewhere will **NOT** affect the QPA and will count towards the credits needed only if they are accepted by Kutztown University. The student is responsible to submit an official academic transcript to the Registrar's Office and copies of grade reports to the Financial Aid Office.

## **APPEALS TO ACADEMIC PROGRESS POLICY**

A student who has been denied federal\* financial aid for failure to maintain satisfactory academic progress may appeal the denial in writing to: Financial Aid Office Appeals Committee, Kutztown University, PO Box 730, Kutztown, PA 19530.  
***Appeals will be accepted until October 20 for the Fall semester and until March 20 for the Spring semester.***

By federal regulations, the grounds for an appeal are (1) the death of a relative of the student, (2) an illness or injury of the student, or (3) other extenuating circumstances. The student will be notified in writing of the Committee's decision. Appeals, when granted, will be for one semester only. A student who is granted an appeal will be reviewed for progress at the end of the "appealed" semester. Progress is determined by credits attempted and earned during the "appealed" semester as outlined under the **Earned New Credits and OPA Requirements** of this form.

In most circumstances, only one (1) appeal will be granted during the course of the student's academic career at Kutztown.

**\* NOTE: *The appeal process does not apply to the PHEAA State Grant program.***

## **PHEAA STATE GRANT ACADEMIC PROGRESS POLICY**

A full-time PHEAA State Grant recipient must earn a minimum of 24 NEW credits for each two semesters of full-time state grant aid received or 24 NEW credits for every four semesters of part-time state grant aid received.

**NOTE: *If a student repeats a course for which he/she received a "D" grade, the repeated course will not count towards the number of new credits needed to satisfy the above progress requirement. Developmental courses may not be applicable towards progress and/or full-time enrollment.***

## **STAFFORD STUDENT LOAN PROGRAM**

The Stafford, PLUS and NJ Class loans require a student to be enrolled at least half-time. The aforementioned satisfactory academic progress requirements apply to all of the loan programs. The maximum amount of Stafford loan a student may borrow is based on the **NUMBER OF CREDITS EARNED** at the time the loan is certified. It is not based on the number of years in school.

Level 1 — Freshman  
0-31.5 credits earned  
Level 2 — Sophomore  
32-63.5 credits earned  
Level 3 — Junior  
64-95.5 credits earned  
Level 4 — Senior  
96 or more credits earned  
Level 5 — Teacher Certification

Level 6 — Grad Student  
0-17.5 credits earned  
Level 7 — Grad Student  
18-35.5 credits  
Level 8 — Grad Student  
36-53.5 credits  
Level 9 — Grad Student  
54 or more credits

**NOTE:** By federal regulations, an undergraduate student's federal financial aid may not exceed 150% of his/her degree program length. This equates to a maximum of 6 years or 12 semesters of full-time enrollment.

## **FINANCIAL AID PROGRAMS**

### ***Federal Aid***

Kutztown University participates in the following federal financial aid programs.

***Federal Pell Grant*** — Grant assistance awarded to qualified, eligible undergraduate students.

***Federal S.E.O.G.*** — Grant awarded to eligible undergraduate students based on need and Pell grant eligibility.

***Federal Perkins Loan*** — Perkins is a 5% interest loan awarded to students with exceptional financial need. The principal and interest are deferred while enrolled on at least a half-time basis.

***Federal Work Study*** — Federal work study is need based, and allows students to work part-time to earn money for college expenses. Students may work up to 15 hours per week.

### ***Federal Family Education Loan Programs***

***Stafford Loans (Subsidized and Unsubsidized)*** is an annual adjusted variable interest rate loan. Subsidized Stafford eligibility is need based, and principal plus interest are deferred while enrolled at least half-time.

Unsubsidized Stafford is awarded on the basis of no need and interest is paid by the student on a quarterly basis. Maximum annual loan limits for undergraduate students are: 1st year – \$2625; 2nd year – \$3500; 3rd and 4th year – \$5500. Graduate students – \$8,500.

**PLUS Loans (Parent Loan for Undergraduate Students)** – Annual adjusted variable interest rate. PLUS loans are not need based. Parents may borrow the difference between the cost of education, minus estimated financial aid. Repayment begins 60 days after disbursement of loan proceeds.

### **State Aid**

#### **Pennsylvania Higher Education Assistance Agency (PHEAA)**

**Grant.** PHEAA Grants are provided by the Commonwealth to residents of Pennsylvania. A maximum of eight undergraduate semester awards (full-time) available and 16 semester awards (part-time) for eligible recipients. The Free Application for Federal Student Aid must be submitted no later than May 1 each year. Awards are re-evaluated each year on the basis of continued need, academic progress and at least half-time enrollment.

#### **PHEAA State Work Study Program**

On and off-campus employment is available to students with a career related, public interest job that is high-tech in nature. For additional information, contact the Financial Aid Office, Kutztown University, Kutztown, PA, 19530, (610) 683-4077.

### **Institutional Aid**

The following scholarship programs provide non-repayable gift assistance to students who are academically and/or financially qualified. General conditions and eligibility requirements are set forth by the donors or governing body.

#### **SSHE Board of Governors**

**Scholarship Program** — Kutztown University has been authorized by the State System of Higher Education to offer a limited number of Tuition Waivers to academically talented students. To be eligible, a student must have a combined SAT score of at least 900 or a predicted Quality Point Average (QPA) of 2.5. Recipient must maintain a minimum QPA of 2.5 for renewal.

#### **Kutztown University Honors**

**Program Scholarship** — Honors Scholarships are awarded to full-time students enrolled in the Honors Program. These scholarships are based solely on academic standing. Incoming freshmen are identified on the basis of SAT scores, predicted quality point average and high school class rank. Upperclass students must have a minimum average of 3.25 in at least thirty-two credits taken at Kutztown University and a letter of recommendation from a faculty member. Scholarships are renewable for up to three years. Applications may be obtained from the Financial Aid Office or the University Honors Program Office. Mail honors application to Kutztown University, Graduate Center, Honors Program, Room 104, Kutztown, PA 19530, by March 1 for consideration.

#### **Tuition Remission for International**

**Students** — The University has a limited number of partial and full-time tuition waivers available for international students. For further information, please contact the Dean of Academic Services, Kutztown University, (610) 683-4215.

**Institutional Employment** — The University's Institutional Employment Program provides jobs to undergraduate and graduate students. A variety of positions are available within the university community. Students average 15 hours per week and are usually paid at the standard minimum wage rate. The university's employment program assists the students in meeting their educational expenses.

**Athletic Scholarships** — A variety of athletic scholarships are available to new and continuing student athletes in all 20 varsity sports at Kutztown University. The majority of scholarships are awarded primarily for athletic ability. There are also academic scholarships which are available to every participating student athlete with the sole criteria being their academic performance.

**Performance Awards (\$200 - \$12,000)** — Scholarships are based on athletic ability and maintaining minimum NCAA and Kutztown University eligibility, are available for men and women in all intercollegiate sports which includes: baseball; men's and women's basketball; men's and women's cross-country; field hockey; football; softball; men's and women's soccer; men's and women's swimming; men's and women's tennis; men's and women's track; women's volleyball and wrestling.

**Ken Meyer Scholarship** — Junior or senior cross country or track athlete with a minimum 3.0 QPA. Must be of good character, demonstrate need and make significant contribution to the team.

**Roger Cocivera Scholarship** — Criteria to be determined for a basketball player.

**Nick Stevens Scholarship —**

Entering freshman football recruit from Pennsylvania with financial need.

**Stimmel Scholarship —** Awarded to one male and one female athlete demonstrating financial need, outstanding academic and athletic performance.

**George Kruse Scholarship —**

A student athlete with an improving grade point average who has made a significant contribution to the success of their team.

**Dennis F. Roth Scholarship —**

Awarded to either a sophomore or junior with good academic improvement and outstanding achievement.

**Walter Risley Scholarship —**

Criteria to be determined for a baseball player.

\* See additional Kutztown University Scholarships on next page.

**Commencement Awards**

Over the years, alumni and friends of Kutztown University have established and endowed annual awards for excellence in certain fields. At present the following awards are offered at Commencement.

Bradley D. Rahn  
Commencement Award  
Bright and Lucile Beck  
American History Award  
C. Josephine Moyer Memorial  
Award in Geography  
Charles H. Boehm Earth/  
Space Science/  
Astronomy Award  
Communication Design  
Illustration Award  
Cyrus E. Beekey Award  
in Biology  
David E. Hottenstein Award  
in Nursing  
Delta Kappa Gamma Award  
in Education

Department of Foreign  
Languages Award  
Ella M. Schaeffer Art  
Education Award  
Eugene Grossman History  
Award for Outstanding  
Scholarship  
Fine Arts Illustration Award  
Floyd W. Boyer Memorial  
Award for Excellence  
in Elementary Education  
The German Consulate Award  
Gill-Lauer-Sharp Psychology  
Prize  
J. Dwight & Sara Daugherty  
Mathematics Education  
Award  
Justham Family Memorial  
Award  
Kappa Mu Epsilon Award  
in Mathematics  
Karen L. Anderson Memorial  
Awards  
Kutztown University  
Foundation Award  
Linda Oswald Bogert  
Memorial Award  
Louis J. Gill Graduate Library  
Award  
Martin Luther King, Jr.  
History Award  
Newton and Edna Geiss  
Award in English  
Pennsylvania Institute  
of Certified Public  
Accountants Award  
Phi Delta Kappa Graduate and  
Undergraduate Awards  
Quincy and Laura Rohrbach  
Award in Librarianship  
Robert Weiss CPA Award  
Roy W. Hamme Memorial  
Award in Physical  
Sciences  
Ruth Bonner Commencement  
Award  
Terry Boyle Illustration Award  
Wall Street Journal Student  
Achievement Award  
Diane V. Dockery Advertising  
Designing Award  
Eaton Hall College  
of Education Award  
Emma S. Richards Award  
Henriette Engelson Speech  
Pathology Award  
J. Allen Pawling Memorial  
Award

**Outside Private Aid**

**The SICO Foundation —** The SICO Foundation provides scholarships to entering freshmen. High school seniors must apply for the scholarship through the SICO Foundation and may obtain copies of the application at the high school counselor's office. Scholarships are renewable for four years and the student must maintain good academic standing.

**Kutztown University Graduate Organization of Bands**

**Scholarship —** A \$200 scholarship is available to a freshman who has participated in the KU marching band as an instrumentalist, drum major, or as a member of the flag, baton, or rifle units during the fall semester. Applications can be obtained from the Music Department, Kutztown University, Kutztown, PA 19530. Deadline for application is March 30 of the awarding year.

**Military Financial Assistance —**

Kutztown University offers a cooperative program with Army ROTC, through Lehigh University. The Navy and Marine Corps offer financial assistance to students participating in certain areas of their programs. For further information, contact:

Army, Kutztown University,  
683-4000

Marines Corps, U.S. Marine  
Corps Recruiting Center  
in Allentown or Reading  
Navy, U.S. Navy Recruiting  
Center in Allentown or  
Reading

## **A FINANCIAL AID CALENDAR**

### **JANUARY**

- \* File parents' and student's federal tax return early. Keep copies of every document sent to IRS (1040, all schedules, W-2s, etc.). Financial Aid Office may require these for verification.
- \* Find out what financial aid applications the college requires. The Free Application for Federal Student Aid (FAFSA) is the core. Schools may also use an institutional data form for awarding of institutional funds. Upon receipt of the FAFSA, the Pennsylvania Higher Education Assistance Agency will send first time PA filers a form to collect more information for PA state grant consideration.

### **FEBRUARY**

- \* File the FAFSA and any required supplemental forms by your first choice school's deadline (varies, mid-January to late-March) for consideration of institutional scholarships and campus-based aid. Check with the college for institutional deadline, and file financial aid forms prior to that date.

**NOTE:** Do not wait until you have received acceptance of admission to file your FAFSA. If you will not attend your first-choice school, you can easily have your information released to another school.

### **MARCH**

- \* Receive Student Aid Report (SAR) in mail 4-6 weeks after filing FAFSA. Read it thoroughly. Make corrections if necessary. Sign and return all the original pages of a correct SAR to your first-choice school. (SAR contains information about Pell grant eligibility.)

### **APRIL**

- \* File Stafford student loan application with a participating lender. Loan applications are available directly from lenders. PHEAA will send loan application to students who indicated interest in a student loan on the FAFSA.

### **MAY**

- \* PHEAA notifies students about PA state grant awards.
- \* Schools begin to send out financial aid award letters. Sign and return award letter by due date.

### **JUNE**

- \* Receive statement from guaranty agency or lender confirming certification of Stafford loan by college. Processing takes at least 6-8 weeks.

### **JULY**

- \* Fall semester bill arrives.

### **AUGUST**

- \* Fall semester bill due (early in month).
- \* Return signed bill to Bursar's Office even if you don't owe anything.

### **SEPTEMBER**

- \* Attend an Entrance Interview if you are first-time Stafford or Perkins loan borrower. May be part of school's summer orientation).

### **OCTOBER**

- \* Stafford loan funds arrive in Bursar's Office.

### **NOVEMBER**

- \* Register for Spring semester courses. Be sure you will satisfy academic progress requirement for number of credits needed to qualify for next year's financial aid.

### **DECEMBER**

- \* Spring semester bill arrives (due December or early January).
- \* Gather together information to file your taxes and get ready to file next year's financial aid applications!

**NOTE:** Non-PA residents should contact their state's higher education assistance agency to apply for a state grant from their home state, if applicable.

## PARTIAL LIST OF SCHOLARSHIPS

QPA = Qualitative Grade Point Average    FAN = Financial Aid Need    FR = Freshman    UP = Upperclassman  
 GRA = Graduate    S = Sophomore    J = Junior    SR = Senior

Not necessary to submit individual applications to be considered for these awards. The FAFSA is sufficient.

Administered by the Financial Aid Office at Kutztown University	Extra Curricular Activity	Academic Major	QPA	FAN	FR	UP	GRA	Approx. \$ Amount	No. of Schol.
APSCUF		Any	3.25			X		\$500	5
Mamie Hartman Afflerbach	X	Any			X			\$300 or higher	
Karen Anderson		Commun. Design	X	X		J/SR		300	1
Fred & Ella Baer		Any	3.5	X		SR		400	1
Kathryn & Frederick Biltz		Any	3.5			S/J/SR		500	1
Bright & Lucile Beck	X	Any	3.25		X			800	2
Cyrus Beekey		Secondary Ed.	3.25			J/SR		700	2
Thomas E. Bock		Any	3.0	X		J/SR		600	2
Eleanor Ruth Brossman		Early Childhood	3.0			J/SR		500	2
Katherine Christ		Education			X	SR		200	1
Class of 1943		Any	2.5	X				500	1
Class of 1944		Any	2.5	X				500	1
Class of 1969		Any	2.5	X				500	1
Lester Davidheiser		Any	3.0		X	J/SR		400	2
Dr. W. W. Deatrck		English/Education				J/SR		1200	2
Eichler & Frankenfield		Any	X	X	X	J/SR		500	
Robert & Rosalin Ensminger		Geography	X			J		250	1
Emma Meyer Flexer		Any	3.25	X	X			300	23
Dr. Ralph Fritz		Library Science	3.0	X				500	1
Linda R. Fullenbach		Library Sci. or Ed.	3.0	X		J/SR	X	600	2
Graduate Classes		Any	3.5	X	X	J/SR		450	3
Doris Grandon		Ed./Art Education	3.0	X	X			350	1
Anna Gross		Any	3.0	X		J/SR		100	1
Agnes M. Guy		Any	3.25	X				500	1
George B. Hancher		Any	3.5	X	X	J/SR		500	14
Emily Haring		Chemistry	3.0	X	X			500	1

## PARTIAL LIST OF SCHOLARSHIPS *(continued)*

QPA = Qualitative Grade Point Average    FAN = Financial Aid Need    FR = Freshman    UP = Upperclassman

GRA = Graduate    S = Sophomore    J = Junior    SR = Senior

Administered by the Financial Aid Office at Kutztown University	Extra Curricular Activity	Academic Major	QPA	FAN	FR	UP	GRA	Approx. \$ Amount	No. of Schol.
Lillian Hartman		Education	3.0	X	X			400	1
Fredrick Frances Harris				X	X	S		500	1
Dr. Grace E. Hesse		Any	2.5		X				
Grace R. Hesse		Any	3.5	X	X			300	1
Lillian E. Johnson		Teacher Ed.	3.5	X	X			500	2
KU Foundation		Any	3.5	X		J/SR		1000	25
John & Sadie Kutz		Any	3.0	X	X			350	1
Naomi Dietrich Long		Elem. Ed.	2.75	X	X			500	1
William Long		Any	2.5	X	X			500	2
(Lehighton H.S. Grad)									
Morning Call		Commun. Design	X	X				900	1
Helen Noonan		Any	2.5	X	X			500	14
Gustav Oberlander Foundation		Any	3.25	X	X	S/J/SR		500	5
Esther Moyer O'Neil	X	Any	3.0		X			300	1
Brad Rahn		Telecomm.	X				X	500	1
Corey Reichert		Early Childhood	X	X	X			500	1
Nick Stevens		Library Sci. or Football, PA Res.	2.5	X	X			500	3
Margaret B. Stimmel		Specific Majors & General Students	2.75	X	X	J/SR		500	20
Lawrence M. Stratton		Any	3.5					500	1
Theatre	X	Speech/Theatre	X	X	X			150	1
Ida R. Trainer			3.0						
Karl F. Walter		Physical Science	X		X			300	4
Flora M. & Rudolf Weretime		Music	Inquire through Music Dept.					150	4

# Division and Curricula

## EDUCATIONAL PROGRAMS

Kutztown University offers the following undergraduate curricula to prepare students for careers:

### COLLEGE OF THE VISUAL AND PERFORMING ARTS

The College of Visual and Performing Arts provides opportunity for study and career preparation in the visual arts, music, speech, and theatre. There are three programs leading to a Bachelor of Arts degree (music, speech, and theatre), four programs leading to a Bachelor of Fine Arts Degree (communication design, crafts, studio art, and related arts) and a Bachelor of Science program in art education designed for the preparation of art teachers.

### COLLEGE OF LIBERAL ARTS AND SCIENCES

Studies in the Liberal Arts and Sciences are designed to enhance a student's knowledge in many fields of learning and to prepare a student for a career upon graduation or for admission to graduate or professional school. Nineteen programs lead to the Bachelor of Arts degree and fifteen lead to the Bachelor of Science degree. All programs provide for general education in the Humanities, the Social Sciences, the Natural Sciences and Mathematics, as well as for specialized study in the major discipline.

### COLLEGE OF BUSINESS

Studies in the College of Business are intended to prepare a student for a career upon graduation and/or for admission to graduate school. Seven major programs of study lead to the Bachelor of Science in Business Administration degree and are described below:

**Accounting** — A student in the Accounting major at Kutztown University engages in intensive professional study in financial accounting, cost accounting, tax accounting, and auditing. Students are prepared to pursue careers as certified public accountants, tax accountants, managerial accountants, accounting managers.

**Economics** — Economics courses develop the critical and analytical skills essential for understanding economic problems and institutions in both their contemporary and historical settings. These courses provide the academic background necessary for positions in industry, for work in many branches of government service, for law school, and for graduate study in business administration, economics, and the social sciences.

**Finance** — The Bachelor of Science in Business Administration with a major in Finance requires students to complete advanced study in financial management, investments, investment portfolio management, advanced business statistics, and monetary theory. Students have the opportunity to elect advanced study in personal financial planning, life insurance, multinational financial management, commercial bank management, etc.

**General Business** — The Bachelor of Science in Business Administration with a major in General Business provides the student with the opportunity for advanced study in all of the functional areas of business. The General Business major is flexible, yet prescribed. Students are required to complete advanced study in four of the following areas: accounting, economics, finance, management and marketing.

**International Business** — The International Business major program provides students with the opportunity and flexibility to study business in an

international context. Because the students are required to complete the same Business Core Requirements as all College of Business Majors, they are first and foremost functional business persons. In addition to the core requirements, International Business majors are required to complete study in specified "International" courses. The program allows the students the flexibility of electing courses which will enhance their understanding of various cultures. International Business students are required to complete a minimum of one year's study of a foreign language, and have the opportunity to expand their study by electing a foreign language minor. Electing a foreign language minor will not only enhance the students' ability and employability, but may lead to placements in foreign internships.

**Management** — Students pursuing a Bachelor of Science degree in Business Administration with a major in Management are required to complete advanced study in Organization Structure and Design, Organization Behavior, Business and Social Environment, and Business Strategy and Policy. They have the opportunity to select from a wide offering of management electives, including: Small Business Management, Personnel Management, Management of Labor Relations, International Management, etc. The degree program also gives students the opportunity to select College of Business electives to help broaden their professional education. Management graduates are prepared to assume leadership roles in a wide variety of careers and organizations.

**Marketing** — Students who select the Bachelor of Science degree in Business Administration with a major in Marketing are required to complete advanced study in Marketing Management and Marketing Research. They have the opportunity to select from a



wide variety of marketing electives, including: Personal Selling, Advertising Management, Consumer Behavior, Advertising Campaigns, Sales Management, Retail Management, Service Marketing, International Marketing, etc. The marketing degree program also allows students the opportunity to elect additional College of Business courses. Marketing students are qualified to pursue careers in retail store management, buying, merchandising, marketing research, selling, advertising, promotions management, international marketing, etc.

## COLLEGE OF EDUCATION

**Elementary Education** — This program leads to a Bachelor of Science in Education Degree and prepares students for teaching in Kindergarten through Grade 6. Certification includes grades 7 and 8 in official middle school organizations. Dual certification programs of study are available in elementary/early childhood, elementary/library science, and elementary/special education.

Field experiences begin early in the program and include observing and teaching at different grade levels in a wide range of urban, suburban, and rural educational settings and organizational structures.

Graduates are currently teaching in child care centers, preschool programs, nursery schools, primary schools, elementary schools, and middle schools. Other graduates have continued their preparation at the graduate level to become elementary supervisors, principals, superintendents, college professors, and officials in the state department of education.

Continuous review and revision of the elementary curriculum is made to maintain high standards and prepare graduates to meet the educational challenges of the future.

**Secondary Education** — General Education, Academic Specialization and Professional Studies are blended to prepare students for careers as

secondary education teachers. The program leads to a Bachelor of Science in Education and Pennsylvania teacher certification which qualifies the graduate to teach in a middle, junior high or senior high school. (Students seeking foreign language certification will be certified K-12.) Secondary Education majors may concentrate in one or a combination of the following areas of specialization: Biology, Chemistry, Earth and Space Science, General Science, Physics, Mathematics, French, German, Russian, Spanish, Communication (Speech and Theatre), English and Social Studies (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology).

**Special Education** — This curriculum leads to the degree of Bachelor of Science in Education and prepares students to teach the mentally and physically handicapped or the visually impaired — kindergarten through grade twelve (12). The requirements include 60 semester hours in General Education, and sufficient credits in Elementary and Special Education to provide **dual certification in both Elementary and Special Education. It should be noted that students must be eligible for dual certification in order to graduate.**

Another Education degree within Special Education is the B.S. in Speech-Language Pathology which prepares students to work with individuals who exhibit communication disorders such as speech, language, voice, or hearing disorders. The requirements include 60 semester hours in General Education, 42 semester hours in the communication disorders specialization, and 29 semester hours in other professional courses. This program leads to Pennsylvania Department of Education (PDE) certification (K-12) in Speech-Language Pathology.

**Library Science** — This curriculum leads to a Bachelor of Science degree in Education (with a major in Library Science) and certification as a school librarian, K through 12. The program prepares students for the expanding field of Library Science, including skills ranging from the development, organization, and administration of a

multi-media collection to the use of microcomputers in libraries and the retrieval of information from on-line systems.

Library Science is a fairly unique major in that the student is able to obtain a concentration or a dual major (dual certification, if applicable) in another area of study, such as Elementary Education, Foreign Languages, etc., increasing professional skills and marketability.

Additionally, the Department provides a sequence of courses for Liberal Arts students, enabling them to qualify for certification as a provisional public librarian in Pennsylvania.

Also housed in the College of Education are the Departments of: HEALTH, PHYSICAL EDUCATION AND DANCE; and AUDIOVISUAL COMMUNICATIONS and TECHNOLOGY.

**Audiovisual Communications** — Providing an array of professional courses and services to the University community, the Department of Audiovisual Communications is a significant contributor in the development of new and established educators. This department contributes to the development of College of Education students by offering the following required professional education courses: Microcomputers in Education and Media and Technology in Education.

**Health, Physical Education, and Dance** — The Department of Health, Physical Education, and Dance functions in several capacities within the University. The Health and Physical Education course offerings are an integral part of the general education program requirements. In addition, the department offers a Health and Physical Education methods course for the College of Education as well as an 18 credit concentration for Elementary Education majors. The department is actively involved in the Related Arts Program as currently constituted by the College of Visual and Performing Arts.

### ***Developmental Studies —***

Kutztown University has accepted the responsibility for providing the opportunity of higher education to students who, because of economic and/or academic need, have encountered barriers to higher education.

A program has been established to admit and retain students who do not satisfy traditional standards but show evidence of potential for success and a personal commitment to achieve. This program is directed by the Department of Developmental Studies, housed in the College of Education. It includes a six-week summer preparatory program designed to introduce students to the university through a combination of coursework and support services including counseling, tutoring, and study skills instruction. Contact with the students is maintained throughout the academic year and participation in support services is encouraged.

The Department of Developmental Studies also administers the Student Support Services Program. It is designed to address the academic, affective, behavioral and financial needs of educationally under prepared and economically disadvantaged undergraduates, and to provide a comprehensive range of academic support services to improve student grades, retention and graduation rates. Its support system uses methods that are known to contribute to improved rates of student persistence. Students who are first-generation college, economically disadvantaged, or physically or learning disabled are eligible to participate.

In addition, the Department of Developmental Studies serves as the university's academic support service. Peer tutoring, math and accounting labs, supplemental instruction, reading and study skills assistance and other support services are available free of charge to undergraduate students who request them.

### **A. COLLEGE OF EDUCATION MISSION** *(Adopted December 1992)*

The mission of the College of Education at Kutztown University is to prepare professional school personnel of the highest quality. The core of basic preparation includes a strong academic knowledge base that fosters practical application. Preparation at the advanced level emphasizes comprehensive study and research in the area of specialization.

To accomplish its mission the College offers a broad range of comprehensive degree programs at the Bachelor's and Master's levels as well as programs leading to teacher certification. The College of Education seeks to provide a balanced program of classroom and clinical experiences.

The College of Education maintains a forward-thinking posture which includes:

1. Providing excellent programs that challenge faculty and students to do their best;
2. Creating program initiatives that acknowledge emerging societal needs;
3. Remaining current with the teaching strategies and technologies to keep programs on the frontier of knowledge;
4. Supporting human diversity in all programs;
5. Seeking to further define and deliver a comprehensive body of knowledge suitable for each major;
6. Providing access to recorded knowledge and information to accommodate present and future instructional and research needs;

7. Engaging in an active program of exchange and collaboration with its varied publics; and,
8. Continuing to support a faculty who exemplify lifelong learning in the areas of excellence in teaching, breadth in service, and creativity in scholarship and research.

### **B. TEACHER AS LIFELONG LEARNER** *(Executive Summary)*

#### **1. Model and Knowledge Base Domains**

The Kutztown University model of **Teacher as Lifelong Learner** views the teacher as an active agent in a dynamic and diverse educational setting. The teacher is an educator, intellectual, and artist, who is continually experiencing the preactive, interactive, and postactive phases of teaching. The teacher is always in the process of learning, continually refining and extending professional skills. Thus, the model of **Teacher as Lifelong Learner** emerges.

In order to make effective strategic teaching decisions, such a teacher must have acquired certain essential knowledge base domains. These knowledge base domains reflect the goals of teacher education programs at Kutztown University.

#### **a. Liberal Education**

Education of teachers includes preparation in mathematics, natural sciences, fine arts, humanities, and social and behavioral sciences. The importance of a liberal education for teachers is two-fold. It provides a model and also enables teachers to understand and justify decisions they make. The education of teachers

must equip them with knowledge of many areas, including the area in which they work, the domains of human knowing, and the relationships among the arts and humanities. The **Teacher as Lifelong Learner** subscribes to the belief that teachers should be the most liberally educated of all professionals.

b. **Teaching Specialty Knowledge**

Teachers must be thoroughly versed in their subject matter and have sufficient preparation in a major academic area related to the field of specialization. Further, teachers must be able to demonstrate the ability to apply content and pedagogical knowledge in educational settings. Teachers additionally must possess knowledge about the materials available for the teaching of their subject matter. **The Teacher as Lifelong Learner** is committed to building and extending expertise in content and helping others to master it also.

c. **Professional Educational Knowledge**

Professional educational knowledge is vast in scope and includes basic knowledge of how students learn, gender issues, instructional techniques, curriculum design, evaluative strategies, current educational trends, media and technology, performance skills, exceptionalities and variations relating to learning, professional responsibilities, and legal issues. These are only some of the examples of areas in which teachers need professional educa-

tional knowledge in order to be effective in the classroom. **The Teacher as Lifelong Learner** is always refining theory, methods, and teaching techniques, is a consumer of educational research, and is utilizing current knowledge pertaining to the profession.

d. **Practical/Experiential Knowledge**

This knowledge begins with the preservice aspect of a teacher preparation program and expands commensurately with experience. Examples of practical experiential knowledge includes an awareness of the climate, issues and politics that affect the role of teaching, a passion for teaching, an on-going curiosity about the world, the confidence to become a risk-taker and change agent, and a belief that all students can learn. **The Teacher as Lifelong Learner** is always extending practical/experiential knowledge.

e. **Communication**

Knowledge and utilization of effective communication skills are at the heart of effective teaching. An educator must be able to demonstrate appropriate written and verbal communication skills including articulation, expressive language, voice quality, usage, and grammar. A teacher must also be aware of the messages relayed via non-verbal communication. Additionally, an educator must be able to select and utilize properly appropriate communication media. Clarity in presentations, feedback, direction of learning and goal-setting

contribute to the educator's ability to structure and reinforce learning. Communication skills allow the educator to accomplish these goals and communicate enthusiasm to learners, both about the subject and the act of teaching. **The Teacher as Lifelong Learner** is continually refining communication skills with students, parents, and colleagues.

f. **Interpersonal Skills**

Effective interpersonal skills are also essential in the act of teaching. The capacity for empathy, a belief that every child can learn, attention to individual need, sensitivity to problems on the homefront, comfortableness in the presence of children or young adults, and the ability to provide a positive, caring atmosphere for learning are examples of these skills. **The Teacher as Lifelong Learner** also must possess interpersonal skills which foster peer collaboration. In the continual process of learning, the teacher must be willing to seek help, advice, or solace from peers. **The Teacher as Lifelong Learner** revises and expands interpersonal skills on a continual basis.

g. **Cultural Awareness and Acceptance**

In our everchanging multicultural society, students from diverse social, economic, and ethnic background and family structures will enter school classrooms. **The Teacher as Lifelong Learner** must strive to be comfortable with a diverse student population and have the perception to see diversity

in people as a strength rather than a deficit. Cultural awareness and acceptance includes those similarities and commonalities found across cultural lines, as well, and is not merely a study of contrasts.

**The Teacher as Lifelong Learner** must provide for educational opportunities that will foster students' appreciation of the diversity that enriches our nation.

h. **Critical Thought**

Critical thought is essential in making strategic teaching decisions. Such decisions involve a number of alternatives relevant to teaching tasks. As might be expected, teachers must process a great deal of knowledge in order to make an appropriate decision for a particular student or group of students. Thus, the quality, evaluation, and reflection guiding the teacher's behavior. **The Teacher as Lifelong Learner** is always using critical thought to improve the quality of teaching. Additionally, this teacher is able to model and teach the process of critical thought and inspire students to high levels of academic achievement.

i. **Organization and Management**

Organizing and managing instructional settings are complex activities which require effective managerial skills and supportive effective relationships. Effective instruction cannot occur without attention to planning and management. **The Teacher as Lifelong Learner** adopts a proactive organizational and mana-

gerial style that involves interventions and strategies designed to include positive expectations, self-evaluation, and growth. Knowledge, communication, and interpersonal skills all come into play to manage a classroom effectively and schedule instructional time according to goals. The knowledge base domains described above provide the groundwork for **The Teacher as Lifelong Learner** as well as the goals for teacher preparation programs at Kutztown University. This model also accommodates the three levels of learning experiences in a teaching career, as discussed in the next section.

2. **Levels of Learning**

As mentioned previously, teaching is dynamic. Through the act of teaching, students are prepared to live in a rapidly changing world. In order to keep pace, the **Teacher as Lifelong Learner** must continue refining teaching competencies through experience and reflection upon that experience. The abilities that characterize novice teachers are different from those of teachers who have more fully developed their skills through the continual learning process of teaching.

a. **Novice**

Novice teachers see themselves as facilitators of learning who have been recently prepared for the act of teaching. The process of continual learning has just begun.

b. **Experienced**

Experienced teachers have refined their teaching abilities, acting cooperatively with learners and

sharing with them the responsibility of learning. The process of continual learning is established and is pursued via formal and informal avenues.

c. **Advanced**

Advanced teachers not only are deeply involved in the continual learning process, but also masterfully apply newly learned knowledge in the discipline. Advanced teachers possess refined communication skills, interpersonal skills, critical thinking skills, and organizational and managerial skills. They also exhibit an appreciation of and sensitivity to issues relating to cultural awareness and acceptance.

# Student Life

## STUDENT AFFAIRS

To support student learning and help students to help themselves are the basic purposes of the Division of Student Affairs. An extensive array of services, programs and resources is provided to help students get the most out of their college experience.

The leadership, coordination and supervision of these services is the responsibility of the Vice President for Student Affairs and Assistant to the Vice President for Student Affairs departments. The Student Affairs Division includes housing, health services, counseling and psychological services, financial aid, student conduct, career services and testing, commuter services, public safety, recreational sports, athletics, student activities, fraternities and sororities, orientation, the student union and student government.

## CAMPUS RESIDENCE HALLS

Kutztown University offers a multi-faceted residence hall system with a living-learning environment as its foundation. The Housing and Residence Life Office, working in concert with student staff, hall councils, and other University offices, provides educational and personal growth opportunities by offering educational and social programs in each residence hall and house. In addition, students are afforded the opportunity to develop their leadership skills through participation on residence hall councils, the Residence Hall Association, and the National Residence Hall Honorary. Daily advisement and guidance is provided by professional live-in staff and trained student staff.

## FACILITIES AND SECURITY

Each Kutztown University residence hall has a 24-hour desk operation that provides security, information and equipment checkout. Desks are staffed by Housing and Residence Life-trained student desk receptionists. Other residence hall features include a multipurpose/recreation room, fully-equipped kitchens, television rooms, study lounges and coin-operated laundry machines. In addition, resident students have access to game tables, VCRs, word processors, computers, board games, and much more. These amenities are provided by individual hall councils.

## RESIDENCE HALL TECHNOLOGY

By the academic year 1998/99, the Kutztown University residence hall system will be wired for phone, cable TV, and computer. This new amenity will provide basic cable television service to each student room, allow each student direct access through his/her personal computer to computer networked services and the World Wide Web, and improve telephone service to all resident students.

## LIFESTYLE AND VISITATION

Kutztown University's ten residence halls and three residence houses provide a variety of living and lifestyle options. Included in these options are both coed and single gender housing. Resident students have the choice of visitation options which range from no visitation to 24-hour visitation on weekends.

## HOUSING POLICIES

The Kutztown University residence hall system provides on-campus housing for over 2,800 students. Freshmen may choose, but are not required, to live on campus. Approximately 1,200 spaces are reserved for first time freshmen. *(Please refer to the Housing Processes section for addition information on housing offers and deposits).*

All resident students are required to participate in the on-campus meal plan. A number of meal plan selections are available to meet resident student needs.

The Kutztown University residence hall system is closed during recess periods. Housing will be available to international and exchange students, and student teachers, at an additional cost, during break periods. Please contact the Housing and Residence Life Office concerning break housing policies.

## HOUSING PROCESS

Due to revisions, a detailed explanation of the Housing Process was unavailable at the time the Bulletin was printed. To obtain a copy of the Housing Process please contact the Housing and Residence Life Office at (610) 683-4027 or write to the Housing and Residence Life Office, Kutztown University, P.O. Box 730, Kutztown, PA, 19530.

## HOUSING CONTRACT

All students offered on-campus housing must sign a housing contract for the accommodations provided. Signed contracts must be on file with the Housing and Residence Life Office prior to student occupancy of a room.

## OFF-CAMPUS HOUSING

There are a variety of housing accommodations available to students in the Borough of Kutztown and surrounding areas. The Off-Campus Student Life Office maintains a list of available off-campus housing locations for students. This listing is available upon request.

The university does not approve, recommend, inspect or regulate off-campus housing. Students and their parents make all arrangements independently. Leases or rental agreements are a private arrangement between the tenants and landlord.

The Borough of Kutztown, through its housing code, licenses, inspects and regulates all landlords and boarding houses within its jurisdiction. These off-campus locations are periodically inspected by the Borough Housing Officer. The Director of Commuter and Judicial Services at Kutztown University will review leases and rental agreements with prospective off-campus residents upon request.

## GENERAL REGULATIONS AND CONDUCT

Specific regulations regarding organizations, conduct and discipline of students and related matters are to be found in the student handbook, *The Key*.

## THE STUDENT GOVERNMENT ASSOCIATION

All students who pay the Student Activity fee are members of the Student Government Association. From their membership they select representatives who form the Student Government Board of the Association. The Board allocates to various organizations appropriations from the activity fund and plans and provides policies for the recognized organizations on the campus.

## STUDENT ACTIVITIES AND CAMPUS EVENTS

Kutztown University provides students with diverse opportunities in which to invest leisure time and to learn and develop outside the formal academic environment. Activities are conducted for the personal development of those who initiate, plan and engage in them, and as a varied co-curricular adjunct to the academic program.

Participation in extra-curricular activities complements classroom learning. As an active member of the University community, students have the opportunity to apply classroom knowledge, develop leadership skills, and meet a variety of people. Involvement can improve a resumé, enhance marketable skills, and help create a more productive and satisfying college experience.

Committed to providing quality co-curricular experiences for Kutztown students, the Student Activities Office offers a variety of resources and services designed to support a well-balanced, year-round campus activity program. As a result, the Office oversees the registration of all student organizations and maintains records of organizational information and activities. The Office works with organizations to help them operate within the guidelines established by Kutztown University and the Student Government Association and provides detailed information in terms of organizational support services, such as leadership development, event planning and maintenance of Student Activities Hotline (683-4089).

Students are invited to become involved in the University governance structure through membership on the Student Government Board. Charged with ensuring that the needs and interests of the KU student body are considered in all business, the SGB also collects the Student Activities Fee and distributes it among student organization and support services.

Students are also encouraged to become involved in the planning and production of campus activities, thereby improving leadership, interpersonal and social skills. Through the Association of Campus Events, under the auspices of the Student Activities Office, student leaders provide the University community with cultural events, lectures, films, social events, Homecoming Week, and ME Day activities. Several social or service fraternities and sororities, honorary societies, academic, special interest, musical and communication clubs are recognized by the Office.

The Student Activities Office is located in Room 262 of the Student Union Building and can be reached by dialing extension 31383.

## BOOKSTORE AND AUXILIARY SERVICES

Student Government also operates the Student Cooperative Bookstore. A one-stop shopping location for textbooks, supplies and other student needs. Contact ext. 34099 for more information. In addition, the SGA Auxiliary Services provides other needed services to students. These range from laundries in residence halls to caps and gowns for graduation.

## THE EVENTS PROGRAM

The Student Government Association has presented a consistently wide array of lectures by prominent personalities, concerts by outstanding musical groups or individuals, dance recitals, and theatre performances of plays by professional actors, movies, art exhibitions, panel discussions and special activities. Such programs are of a diverse nature to permit a maximum number of students to choose those suited to specific interests and needs.

## UNIVERSITY COUNSELING SERVICES (UCS)

The Office of University Counseling Services provides a broad range of psychological services to undergraduate students including individual and group counseling, assessment and referrals, special programs based on student interest and needs, and emergency services. Counseling is offered for personal and academic problems and is available to students who are currently enrolled at the University. Consultations are also provided for students, faculty and staff. The philosophy of UCS is to help students enhance their effectiveness as individuals, overcome problems that interfere with their personal growth and development, and further their awareness of themselves. Through counseling, students can develop a better understanding of their behavior, thus allowing them to gain control over their lives.

Concerns of any kind may be discussed confidentially. There are no fees for services, and all services are voluntary.

## HEALTH CENTER AND SERVICES

The Kutztown University Student Health Center is located behind Old Main in the center of campus. It provides services for all students whether full or part time, graduate or undergraduate, seven days a week during the Fall and Spring semesters. There are reduced hours during the summer sessions. The facility is staffed by 6 full-time registered nurses, one nurse practitioner/Director, and four Family Practice physicians who provide 18-20 hours of appointment times Monday through Friday.

The goal of the KUHC is to provide quality care to all students. Students may report during posted hours for an evaluation and treatment by a registered nurse. Appointments may be scheduled by the nurse for students who require advanced care by the nurse practitioner or physicians after

they have been evaluated according to a triage system.

All students pay a Health Center fee which covers the majority of services and medications. Treatments include allergy vaccines, sick or well exams, injury/medical care, and a self-care unit which allows students to pick up over-the-counter medications for colds and allergies. Also, educational programming on a variety of health related topics is available. Lab, X-ray, and emergency transport services are not covered and are the responsibility of the individual student. Students with health or illness-related problems are encouraged to stop by the Health Center to speak with a nurse.

In addition, Public Safety conducts many service programs such as: CPR, Rape Aggression Defense System and Crime Prevention Program.

## CAREER SERVICES

One function of a college education is to foster the growth and development of the student in preparation for a meaningful and satisfying life after college. Because developing one's career potential is an integral part of this process, Kutztown University provides career planning and job search assistance services for its students.

**Career planning** can best be described as an educational process through which students (1) identify and develop their abilities, aptitudes, and interests; (2) learn the relationship between their capabilities and interests, their university experiences, and professional opportunities outside the university; and (3) prepare for those opportunities.

**Placement** is the process of researching specific organizations that provide the types of work desired, interviewing for specific jobs through which career or professional interests can be satisfied, and then selecting from the options available the one that best meets students' needs. This part

of the process also requires students to develop skills in such areas as writing effective resumes and cover letters, interviewing techniques, and individual job-search strategies to enhance productive interactions with employers.

**The goals** of this integrated career planning and placement process are for Kutztown University students to think of themselves as educated people with skills and abilities that have value to employers, and to think in terms of functional responsibilities rather than merely linking their major subjects to jobs, to acquire and develop the skills necessary to become self-reliant and informed decision-makers, to prepare for a competitive job market, and to develop their potential of becoming self-reliant managers of their own careers.

The Office of Career Services offers the following resources and services to help students prepare for professional opportunities after graduation.

**Career resources.** Among the resources available in the Career Library are books and articles on career planning, current information on career opportunities, graduate school information, job-search directories, Internet access to information about thousands of employers, and a video-tape library covering a wide range of career-related subjects.

**Career programs and workshops.** The staff conducts a variety of seminars and presentations in collaboration with academic departments, professional societies, Residence Hall living groups, and other interested campus organizations. Workshops on resume writing, interviewing techniques, graduate school, internships and job-search strategies are also offered.

**Individual consultation.** Students may meet with members of the staff to discuss their career options and goals, individual job-search strategies, effective interviewing, and related interests.

**On-campus interviewing.** Staff members work with business, industrial, government, and educational representatives who interview on campus each year.

**Internships and summer jobs.**

Summer and part-time job listings and internship opportunities are posted in the office of Career Services for all students interested in gaining career-related experience.

**Computer-assisted career planning program.** This service assists students to identify values, skills, interests, learn about and locate related career opportunities, and effectively plan an academic approach to reach their career goal.

**Testing service.** As a service to students preparing for teaching opportunities and/or graduate school, the office of Career Services coordinates the administration of standardized tests including CLEP and NTE and provides registration and preparation materials for tests such as GRE, GMAT, MCAT, TOEFL, etc.

**Credential Service.** Students enrolled in education and education-related programs (counseling, library science) may wish to maintain their credential file(s) with this office. We in turn will present these credentials to educational organizations at the request of the student(s).

**Candidate Referral System**

To further assist graduating students in their job search, Career Services supports a computerized database for referring candidates for employment opportunities. Students interested in full-time opportunities after graduation and/or internship opportunities are encouraged to participate in the **Resumé Expert System.**

**"Career Testing"**

Helping students identify their skills, abilities, and interests is key to a successful college experience. To help students in this area, Career Services administers a variety of

assessment instruments including: The Major/Minor Finder, The Self-Directed Search (SDS) and The Campbell Interest & Skills Survey (CISS).

## ATHLETICS

The university is a member of the Pennsylvania State Athletic Conference, Eastern Collegiate Athletic Conference, and competes at the NCAA Division II level. Varsity schedules for men include football, cross-country, soccer, basketball, wrestling, swimming, tennis, track and field, and baseball.

Women compete in tennis, field hockey, volleyball, softball, cross-country, swimming, soccer, track and field, and basketball at the inter-collegiate level.

Interested students should contact the coach directly.

A wide offering of club, recreational and intramural sports is provided for both men and women through the facilities of Keystone Hall, Risley Hall and the adjacent playing fields.

## PUBLIC SAFETY

The Department of Public Safety has as its overall function the protection of student and university property, traffic and parking control and enforcement, and the maintenance of order and discipline among students, employees, and visitors. In addition to these services, the Department of Public Safety has tools available for persons locked out of vehicles and an engraver to mark personal property for easy identification.

In addition, Public Safety conducts many service programs, such as CPR, Rape Aggression Defense System and Crime Prevention Program.

## VETERANS' AFFAIRS

The specific needs of the campus sub-group consisting of students who are veterans of military service are the responsibility of the Office of Veterans' Affairs, a unit of the Registrar's Office. The Veterans' Administration Office assists veterans with the paperwork required to insure that appropriate benefits are received on time, and provides advisement and referral services for veterans on a variety of special concerns and personal problems.

## AFFIRMATIVE ACTION POLICY STATEMENT

Kutztown University is committed to a policy of nondiscrimination in compliance with Executive Order 11246, Title IX of the Education Amendment, Title VI and VII of the 1964 Civil Rights Act, and all other applicable Federal and State statutes. As stated in the university's Affirmative Action Plan, "Kutztown University is committed to equal employment and educational opportunities through elimination of any discrimination that may exist on the basis of race, religion, color, national origin, ancestry, sex, age, disability, or sexual orientation." In addition to the Affirmative Action Plan, the university has a policy covering sexual harassment.

## AFFIRMATIVE ACTION GRIEVANCE PROCESS

Individuals who feel that they have been discriminated against on the basis of race, religion, color, national origin, ancestry, sex, disability or sexual orientation should discuss this matter with the university's Director of Social Equity, Room 220, Administration Building.



## SOCIAL EQUITY

Kutztown University is committed to non-discrimination in compliance with the Civil Rights Act of 1964, Title VI and VII, Title IX of the Educational Amendment, the Civil Rights Act of 1991, to affirmative action as provided in Executive Order #11246 and other applicable federal and state laws and regulations. The University will not tolerate discrimination in employment or educational opportunities which may exist on the basis of race, religion, color, national origin, ancestry, sex, age, veteran status or disability. Kutztown University recognizes the importance of eliminating discrimination based on sexual orientation and other differences, and is committed to providing an equitable environment for all of its students and employees. The University has a policy and procedure for complaints of discrimination and sexual harassment.

## DISCRIMINATION/ HARASSMENT COMPLAINT PROCESS

Individuals who feel that they have been discriminated against on the basis of race, religion, color, national origin, ancestry, sex, age, veteran status, disability or sexual orientation or who feel they have been sexually harassed should discuss the matter with the University's Director of Social Equity, Room 220, Administration Building.

## DINING SERVICES

Dining services offers eight different meal plans. The two types include optimum or traditional. Under each type of plan, students have the choice of selecting 5, 10, 15, or 19 meals per week. All on-campus residents are required to have a 19 or 15 meal plan. Exceptions are made for student teachers.

Optimum plans entitle students to eat their meals within a seven-day period at all the service dining points in the Student Union Building and the South Dining Hall. These plans also come with flex dollars for food purchases. Traditional plans are more structured in that the plans dictate where and when the students may eat their meals. Students on Traditional plans may only eat in the South Dining Hall. Special diets are available for students with medical restrictions. Specific details are outlined in the Meal Plan Contracts brochure.

The service dining points in the South Dining Hall includes **The Cafe, Pete's Arena** and **Bag-It**. The Student Union Building offers the **Snack Bar, Pasta Cart** and **Coffee Cart**.

## STUDENT UNION BUILDING

The Student Union Building (SUB) is a multipurpose facility offering students, staff and faculty a variety of services and conveniences. Our Union offers: a full service Snack Bar and Bookstore; several meeting facilities that accommodate groups ranging from 8 to 365; a computer laboratory; game room; an Information Center that houses resources and information on just about anything that is going on at KU plus bus tickets, an event box office, magazine and newspaper loan service and much more. Student organizations and administrative departments also provide many programs and services that enhance the quality of life at KU. In short, there is a lot going on in and around the SUB! In that spirit, the SUB seeks to be the living room of campus and the hub of campus life. For more information contact us at:

*<http://www.kutztown.edu/SUB>*  
for a breakdown of programs, facilities and services.

## THE SUB MISSION STATEMENT:

The Kutztown University Student Union Building (SUB) is a cornerstone of the campus community. The Student Union Building seeks to provide the facilities, amenities, and services to the University community to foster an inviting and congenial atmosphere which enhances our institutional mission. In doing so, the Student Union Building attempts to create an environment where students, staff and faculty may come together through an eclectic mix of formal and informal programs that promote development and educational exchange.

# College of Business

The **COLLEGE OF BUSINESS** offers seven distinct major programs – Accounting, Economics, Finance, General Business, International Business, Management, and Marketing – leading to the **Bachelor of Science in Business Administration (B.S.B.A.)** degree and a minor program of study in advertising.

The distinct major programs in **Accounting, Economics, Finance, General Business, Marketing, and Management** have the following degree requirements:

A. General Education	60 s.h.
B. Major Program	69 s.h.
1. Core Courses (18 s.h.)	
2. Common Courses (15 s.h.)	
3. Distinct Major Courses (30 s.h.)	
4. Additional Electives (6 s.h.)	
total	129 s.h.

The distinct major in **International Business** has the following degree requirements:

A. General Education	60 s.h.
B. Major Program	69 s.h.
1. Core Courses (18 s.h.)	
2. Common Courses (15 s.h.)	
3. Distinct Major Courses (24 s.h.)	
4. Additional Electives (12 s.h.)	
total	129 s.h.

(The International Business program requires a minimum of one year study of a foreign language.)

In addition, the **College of Business** administers a **Bachelor of Arts** program in **Economics**. With regard to General Education requirements, please consult advisor and program check sheet. For requirements in the B.A. Economics major, see page 51.

## General Graduation Requirements for the College of Business

To graduate with a degree in Business Administration, a student must:

1. Successfully complete at least 129 semester hours as specified by degree;
2. Satisfy all requirements of General Education;
3. Satisfy all course requirements in the major;
4. Attain a cumulative quality point average no lower than 2.00 in all courses completed at Kutztown University;
5. Attain a quality point average no lower than 2.00 in all courses completed in the student's major.

## Specific Regulations for the College of Business

1. Freshman course selection: During the freshman year, Business/Core students may only register for ECO 011: Principles of Macroeconomics, ECO 012: Principles of Microeconomics and BUS 171: Business Data Processing.
2. Selection of the distinct major: Before a student is permitted to select a distinct major in Business Administration, or to register for an upper division course in Business Administration (300 level), the student is required to:
  - a. Complete the following Business/Core courses with a minimum QPA of 2.00:  
ACC 121: Principles of Acctg. I  
ACC 122: Principles of Acctg. II

- BUS 120: Principles of Business Statistics  
 BUS 131: Business Law I  
 ECO 011: Principles of Macroeconomics  
 ECO 012: Principles of Microeconomics

- b. Achieve a minimum QPA of 2.00 overall in all courses completed at the University.
3. Transfer policy: After admission to Kutztown University, Business Administration students may not complete Business/Core requirements or other Business Administration major program requirements at other educational institutions.

## GENERAL EDUCATION REQUIREMENTS for All B.S.B.A. Degrees (60 s.h.)

1. **Basic Requirements: 9/10 s.h.**
  - a. Composition – 3 s.h.
  - b. Oral Communication – 3 s.h. \*
  - c. Health – 2/3 s.h.
  - d. Physical Education \*\* – 1 s.h.
2. **Humanities: 12 s.h.**
  - a. Literature – 3 s.h.
  - b. Music\*\*\*, Speech, or Theatre – 3 s.h.
  - c. Art History \*\*\*\* or Philosophy – 3 s.h.
  - d. Elective in any Humanities discipline in this group – 3 s.h. (including foreign language)
3. **Social Sciences: 12 s.h.**
  - a. History or Political Science – 3 s.h.
  - b. Anthropology, Psychology, or Sociology – 3 s.h.
  - c. Geography – 3 s.h. \*\*\*\*\*
  - d. Elective in any Social Sciences discipline listed in this group – 3 s.h. \*\*\*\*\*

4. **Natural Sciences and Mathematics: 12 s.h.**

- a. Mathematics – MAT 121 or higher, excluding dual listed MAT/CIS courses – 3 s.h.
- b. Biological Science with Lab – 3 s.h.
- c. Physical Science with Lab or GEG 320/321, 324/325 – 3 s.h.
- d. Elective in any Natural Science \*\*\*\*\* or Mathematics (except MAT 101) – 3 s.h.

5. **General Education Electives: 15 s.h.**

For the remainder of the total semester hours required under General Education, courses may be selected from any one of – or any combination of – the disciplines listed under sections 1 through 4 above with the exception of specific courses. Students should contact their academic advisor concerning these exceptions.

\* SPE 010 fulfills the Oral Communication requirement.

\*\* One semester hour will be granted only upon completion of both Physical Education I and II.

\*\*\* Up to six semester hours of credit in Applied Music may be taken under Category 5 of General Education.

\*\*\*\* Up to nine semester hours of credit in Studio Art may be taken under Category 5 of General Education.

\*\*\*\*\* In the Geography discipline, GEG 040, 320/321, 322 324/325, 326 and 328/329 may be taken ONLY as Natural Science courses.

**MAJOR PROGRAM  
REQUIREMENTS FOR ALL  
B.S.B.A. DEGREES (69 s.h.)**

All B.S.B.A. students must complete the FOUR components of the major program as listed below.

1. **BUSINESS "CORE" COURSES: 18 s.h.**

The following courses are required:

- ECO 011: Principles of Macroeconomics
- ECO 012: Principles of Microeconomics
- ACC 121: Principles of Accounting I
- ACC 122: Principles of Accounting II\*
- BUS 120: Business Statistics
- BUS 131: Business Law I

2. **BUSINESS "COMMON" COURSES: 15 s.h.**

The following courses are required:

- BUS 171: Principles of Business Data Processing\*
- MKT 310: Principles of Marketing\*\*
- MGM 300: Principles of Management\*\*
- FIN 350: Corporation Finance\*\*
- XXX 380: Senior Seminar in Distinct Major\*\*

\* BUS 171 is a prerequisite for ACC 122.

\*\* Business/Core courses must be completed with a 2.0 QPA and the student must earn a 2.0 QPA in all courses before scheduling 300-level courses.

3. **INFORMATION ON THE DISTINCT MAJORS**

a. **ACCOUNTING: 30 s.h.**  
(Effective Fall 1993)

A student in the distinct major of Accounting engages in intensive professional study in financial accounting, cost accounting, tax accounting, and auditing. Students are prepared to pursue careers as certified public accountants, tax accountants, managerial accountants, accounting managers, etc.

**Required Courses: 21 s.h.**

Take EACH of the following courses:

- ACC 305: Cost Accounting
- ACC 312: Accounting Information Systems
- ACC 317: Tax Accounting I
- ACC 321: Intermediate Accounting I
- ACC 322: Intermediate Accounting II
- ACC 323: Advanced Accounting
- ACC 330: Auditing Practice & Standards

**Restricted Electives: 6 s.h.**

Pick two of the following courses:

- ACC 306: Advanced Cost Accounting
- ACC 318: Tax Accounting II
- ACC 325: Not-for-Profit Accounting
- BUS 132: Business Law II

**Business Electives: 3 s.h.**

Select ONE course with an ACC, BUS, ECO, FIN, MGM, or MKT prefix.

b. **ECONOMICS: 30 s.h.**  
(Effective Fall 1992)

Economics courses develop the critical and analytical skills essential for understanding economic problems and institutions in both their contemporary and historical settings. These courses provide the academic background necessary for positions in industry, for work in many branches of government service, for law school, and for graduate study in business administration, economics, and the social sciences.

**Required Courses: 9 s.h.**

Take EACH of the following courses:

- ECO 205: Intermediate Microeconomics
- ECO 210: Intermediate Macroeconomics
- ECO 345: Econometrics

**Restricted Electives: 9 s.h.**

Select THREE courses from the following:

ECO 201: Development  
Economics  
ECO 301: Industrial Relations  
ECO 310: Money & Banking  
ECO 315: Government &  
Business  
ECO 340: Management  
Economics  
ECO 350: Public Finance  
ECO 360: International Trade  
& Finance

**Finance/Economics Electives:****6 s.h.**

Select TWO courses with FIN or ECO prefixes.

**Business Electives: 6 s.h.**

Select TWO courses with ACC, BUS, ECO, FIN, MGM, or MKT prefixes.

c.

**FINANCE: 30 s.h.**

*(Effective Fall 1995)*

A student in the distinct Finance major completes rigorous study in investments, financial markets and institutions, financial management, multinational financial management, and operations management. Students may choose from wide variety of restricted electives based on their career goals. For example, if they want to pursue a career in the financial services industry they may choose among personal financial planning, investment portfolio management, financial institutions management, advanced business statistics, tax accounting, etc. Similarly, individuals interested in a career in corporate financial management may choose among micro-computer business applications, advanced business statistics, personal financial planning, managerial accounting, etc. The curriculum emphasizes use of computers including spreadsheets.

**Required Courses: 21 s.h.**

Take EACH of the following courses:

BUS 351: Operations  
Management  
FIN 340: Investments  
FIN 360: Financial Markets and  
Institutions  
FIN 363: Intermediate Financial  
Management  
FIN 365: Multinational Financial  
Management

**Restricted Electives: 12 s.h.**

Select THREE courses from the following:

FIN 351: Personal Financial  
Planning  
FIN 355: Investment Portfolio  
Management  
FIN 370: Financial Institutions  
Management  
BUS 310: Microcomputer  
Business Applications  
BUS 320: Advanced Business  
Statistics

Choose any remaining courses (maximum ONE) from the following:

ACC 303, 305, 306, 312, 313, 317,  
318, 321, 322, 323, 325;  
BUS 331, 353;  
ECO 205, 210, 310, 335, 340, 345,  
350, 360;  
MGM 315, 327, 377

**Business Electives: 3 s.h.**

Select ONE course with an ACC, BUS, ECO, FIN, MGM, or MKT prefix.

d.

**GENERAL BUSINESS: 30 s.h.**

*(Effective Fall 1992)*

The distinct major in General Business provides the student with the opportunity for advanced study in all of the functional areas of business. The General Business major is flexible, yet prescribed. Students are required to complete advanced study in four of the following areas: Accounting, Economics, Finance, Management and Marketing.

**Required Courses: 24 s.h.**

Select 6 s.h. in any FOUR areas in Business Administration as listed above.

**Business Electives: 6 s.h.**

Select TWO courses with ACC, BUS, ECO, FIN, MGM, or MKT prefixes.

e.

**INTERNATIONAL BUSINESS: 24 s.h.**

*(Effective Fall 1992)*

The distinct major in International Business provides students with the opportunity and flexibility to study business in an international context. Because International Business students are required to complete the same Core and Common courses as are all College of Business students, they are first and foremost functional business persons. In addition to the Core and Common courses requirements, these students are required to complete study in specified "International" courses. This program allows the students the flexibility of electing courses which will enhance their understanding of various cultures.

International Business students are required to complete a minimum of one year's study of a foreign language, and have the opportunity to expand their study by electing a foreign language minor. Electing a foreign language minor will not only enhance the students' ability and employability, but may lead to placements in foreign internships.

**Required Courses: 15 s.h.**

Take EACH of the following courses:

ECO 360: International Trade &  
Finance  
FIN 365: Multinational Financial  
Management  
INT 010: Introduction to Inter-  
national Studies  
MGM 352: International  
Management  
MKT 370: International Marketing

**Business Electives: 9 s.h.**

Select THREE courses with ACC, BUS, ECO, FIN, MGM, or MKT prefixes.

f. **MANAGEMENT: 30 s.h.**  
(Effective Fall 1992)

Students pursuing a distinct major in Management are required to complete advanced study in Organization Structure and Design, Organization Behavior, Business and Social Environment, and Business Strategy and Policy. They have the opportunity to select from a wide offering of management electives, including: Small Business Management, Personnel Management, Management of Labor Relations, International Management, etc. The degree program also gives students the opportunity to select College of Business electives to help broaden their professional education. Management graduates are prepared to assume leadership roles in a wide variety of careers and organizations.

**Required: 12 s.h.**

Take EACH of the following courses:  
MGM 345: Organizational Structure and Design  
MGM 350: Organizational Behavior in Management  
MGM 360: Business and Social Environment  
MGM 377: Business Strategy and Policy

**Restricted Electives: 6 s.h.**

Select TWO courses from the following:  
MGM 315: Management Science  
MGM 318: Women in Management  
MGM 327: Small Business Management  
MGM 335: Personnel Management  
MGM 337: Management of Labor Relations  
MGM 344: Research Methods  
MGM 351: Operations Management and Models  
MGM 352: International Management  
MGM 356: Management of Energy  
BUS 353: Management Information Systems  
MGM 356: Management of Energy  
MGM 400: Innovation & Entrepreneurship

**Business Electives: 12 s.h.**  
Select FOUR courses with ACC, BUS, ECO, FIN, MGM, or MKT prefixes.

g. **MARKETING: 30 s.h.**  
(Effective Fall 1992)

Students who select the distinct major in Marketing are required to complete advanced study in Marketing Management and Marketing Research. They have the opportunity to select from a wide variety of marketing electives, including: Personal Selling, Advertising Management, Consumer Behavior, Advertising Campaigns, Sales Management, Retail Management, Service Marketing, International Marketing, etc. The marketing degree program also allows students the opportunity to elect additional College of Business courses. Marketing students are qualified to pursue careers in retail store management, buying, merchandising, marketing research, selling, advertising, promotions management, international marketing, etc.

**Required Courses: 3 s.h.**

Take EACH of the following courses:  
MKT 320: Marketing Management  
MKT 360: Marketing Research

**Restricted Elective: 15 s.h.**

Select ONE of the following courses:  
MKT 330: Personal Selling  
MKT 350: Advertising Management

Select FOUR of the following courses:

MKT 312: Consumer Behavior  
MKT 330: Personal Selling  
MKT 332: Sales Management  
MKT 340: Retail Management  
MKT 347: New Product Management  
MKT 350: Advertising Management  
MKT 351: Media Concepts and Planning  
MKT 355: Service Marketing  
MKT 357: Advertising Campaigns  
MKT 370: International Marketing  
MKT 371: Selected Topics in Marketing

MKT 411: Marketing Communications Management

**Business Electives: 9 s.h.**

Select THREE courses with ACC, BUS, ECO, FIN, MGM, or MKT prefixes.

4. **ADDITIONAL ELECTIVES: 6 s.h.**  
(*International Business requires 12 s.h. of Additional Electives.*)  
Select from courses in Liberal Arts and Sciences or from courses with ACC, BUS, ECO, FIN, MGM, or MKT prefixes.

The Department of Marketing also offers a minor in advertising. Those students who have a career desire to work in advertising or integrated marketing communications, can elect the following 18 hour minor.

1. **Required Courses: 18 s.h.**

MKT 310: Principles of Marketing  
MKT 312: Consumer Behavior  
MKT 350: Advertising Management  
MKT 351: Media Concepts and Planning  
MKT 357: Advertising Campaigns  
MKT 411: Marketing Communications Management

**MAJOR PROGRAM  
REQUIREMENTS FOR B.A.  
IN ECONOMICS (69 s.h.)**  
(Effective Fall 1992)

**1. Required Courses: 15 s.h.**

Take EACH of the following courses:

ECO 011: Principles of Macro-  
economics

ECO 012: Principles of Micro-  
economics

ECO 205: Intermediate Micro

ECO 210: Intermediate Macro

ECO 380: Senior Sem Econ

**2. Restricted Electives: 6 s.h.**

Select ONE option —

*Quantitative Option:*

ECO 335: Mathematical Economics

ECO 345: Econometrics

*Non-Quantitative Option:*

ECO 150: Economic History of U.S.

ECO 320: History Economic Thought

**3. Unrestricted Electives: 18 s.h.**

Select SIX courses with ECO prefix.

**4. Concomitant Courses: 15 s.h.**

Select FIVE courses from the  
following:

ACC 121: Principles of Accounting I

ACC 122: Principles of

Accounting II\*

ANT 220: Economic Anthropology

BUS 120: Principles of Business  
Statistics

ENG 205: Scientific Writing

GEG 220: Economic Geography

GEG 300: Trade & Transportation

GEG 305: Geography of  
Manufacturing

HIS 248: History of American Labor

HIS 303: American Intellectual &  
Social History to 1865

HIS 304: American Intellectual &  
Social History from 1865

HIS 338: History of Technology

MAT 140: Applied Statistical  
Methods

MAT 205: Mathematics of Finance

PHI 020: Introduction to Logic

PHI 240: Philosophy of Social  
Sciences

PHI 265: Soc. & Political Philosophy

POL 215: Public Administration

POL 225: Planning & Decision  
Making Theory

POL 311: Constitutional Law I

POL/CRJ 340: Municipal Government

PSY 220: Personnel &  
Organizational  
Psychology

PSY 240: Social Psychology

SOC/CRJ/POL 150: Law & Society

SOC 230: Urban Sociology

SOC 240: Population Problems

SWL 150: Social Welfare Policy

\* BUS 171 is prerequisite for  
ACC 122.

**5. Additional Electives: 15 s.h.**

Select from courses in Liberal Arts  
and Sciences or from courses with  
BUS, ECO, FIN, MGM, or MKT  
prefixes.

\* ECO 011 & 012 are prerequisites  
for all courses in Economics.  
Refer to the section on Course  
Descriptions and consult with  
your advisor about prerequisites  
for other courses.

\* A business statistics course is  
required.

\* A **comprehensive examination** is  
required to meet degree  
requirements.

# College of Visual and Performing Arts

The overall mission, goals and objectives of the visual arts departments at Kutztown University

## ***Mission:***

- The College of Visual and Performing Arts at Kutztown University will engage its students in the development of arts, skills, critical thinking, historical perspectives, problem solving, individual growth and academic excellence to prepare them to contribute to a diverse global environment.
- To educate undergraduate students in a wide variety of visual and performing art forms, while maintaining a commitment to academic excellence.
- To develop specialized visual and verbal communication skills, critical thinking and problem solving skills.

## ***Goals:***

- To provide for all students, opportunities to increase their appreciation and knowledge of the artistic processes and cognitive areas leading to proficiency in their chosen discipline.
- To provide an environment that is challenging and promotes diversity and individual growth.
- To provide students with the knowledge, skills and attitudes to continue professional, personal and artistic growth, including the interrelationships among past, present and emerging art forms.

- To enhance the quality of Kutztown University and surrounding communities by offering the study of art forms to interested students, by providing support for selected majors, minors and concomitants and by providing the university community the opportunity to enjoy both student and professional performances/exhibitions on campus.
- To educate graduate students in specific professional fields.

## ***Objectives***

- To provide appropriate admission requirements for each program.
- To provide safe and appropriate environments for each academic and studio area.
- To provide a solid grounding in drawing, two-dimensional and three-dimensional design and history of art in all programs.
- To provide curricular flexibility at the upper level
- To provide cross-departmental study and in-depth academic and studio experiences.
- To provide off-campus internships and field experiences as opportunities to produce comprehensive enriching programs.

## **BACHELOR OF SCIENCE IN ART EDUCATION**

*(Effective Fall 1989)*

## ***Goals:***

1. To provide programs which are commensurate with the demands of the field of art education in a contemporary context.
2. To provide opportunities for the acquisition of knowledge and skills in the field of Art Education at both general and specialized levels.
3. To provide an environment that is challenging and allows diversity and individual growth in the field of Art Education.
4. To provide students with the knowledge, skills and attitudes to continue future professional, personal and artistic growth in the field of Art Education.

## ***Objectives:***

1. To provide appropriate admission requirements in Art Education.
2. To provide safe and appropriate environments for each academic and studio area in Art Education.
3. To provide a solid grounding in two-dimensional design for all visual arts students.
4. To provide a solid grounding in three-dimensional design for all students in Art Education, Crafts and Fine Arts.
5. To provide curricular flexibility at the upper level in order to foster cross-departmental study.

6. To provide in-depth academic and studio experiences in relationship to Art Education.

7. To provide off-campus field experiences, student teaching experiences and internships as opportunities to produce comprehensive enriching programs.

This program is designed to prepare students to become teachers of art for the public schools and to be able to communicate effectively about art in a variety of social settings. Upon successful completion of the program the student is certified to teach art from kindergarten through twelfth grade if the student meets all other Pennsylvania requirements and completes the necessary application for Certification. The program is made up of three components: (1) General Education which consists of 48/49 s.h. in Humanities, Social Science and Natural Science; (2) Professional Education which consists of 32 s.h. in educational methodology and student teaching; and (3) Area of Specialization which consists of 51 s.h. in art studio, art history and related course work. STUDENTS ENROLLED IN ART EDUCATION ARE SUBJECT TO ALL EDUCATION REQUIREMENTS AS LISTED IN THE *BULLETIN*. HOWEVER, ART EDUCATION STUDENTS MUST ACHIEVE A QPA OF 2.50 PRIOR TO THE REGULAR SEMESTER IN WHICH THE APPLICATION FORM IS COMPLETED FOR STUDENT TEACHING.

## GENERAL EDUCATION REQUIREMENTS (48/49 s.h.)

1. **Basic Requirements: 6/7 s.h.**
  - A. English Composition – 3 s.h.
  - B. Health – 2 /3 s.h.
  - C. DAN 010: Introduction to Dance I – .5 s.h.
  - D. DAN 011: Introduction to Dance II or PED 011 - 087 – .5 s.h.
2. **Humanities: 15 s.h.**
  - A. Literature or Philosophy – 3 s.h.
  - B. Music or Theater – 3 s.h.
  - C. Foreign Language or Speech – 3 s.h.
  - D. Elective – 3 s.h.
  - E. Elective – 3 s.h.

(ARH, ART, CDE, CFT, FAR or RAR prefix courses may NOT be taken as electives in this category. ART 015 is permitted.)
3. **Social Sciences: 9 s.h.**
  - A. History or Political Science – 3 s.h.
  - B. PSY 011: Introduction to Psychology – 3 s.h.
  - C. Electives in any Social Sciences – 3 s.h.

(Specified GEG courses may NOT be taken as an elective in this category.)
4. **Natural Sciences and Mathematics: 9 s.h.**
  - A. Mathematics (except MAT 101) – 3 s.h.
  - B. Biological Science with Lab, Physical Science with Lab, or GEG 320/321, 324/325 – 3 s.h.
  - C. Elective in any Natural Science or Mathematics (except MAT 101) – 3 s.h.

(ENV 100 and specified GEG courses may be taken as an elective in this category.)
5. **Additional Electives: 9 s.h.**

Any courses may be used to satisfy this requirement EXCEPT for courses with ART, ARU, EDU, ELU, MAU and SPU prefixes. ART 015 may be taken. MAT 101 may NOT be taken.

## MAJOR PROGRAM REQUIREMENTS FOR THE B.S. IN ART EDUCATION by Semester Alignment (83 s.h.)

An additional 3 clock hours of work each week, outside of the scheduled class meeting times, is required in all studio courses.

The curriculum has been designed in logical sequences which mandate the completion of certain courses before others. This is particularly true of the art studio and art education courses.

Students should register for the specific courses listed each semester. Some courses are offered only spring or fall. Should schedule conflicts arise, the student should consult with his/her advisor. ARU 399 must be scheduled for the senior year.

### FIRST SEMESTER

	s.h.
ART 021: Drawing I	3
ART 031: Two-Dimensional Design	3
ARH 024: Art History A	3
ENG 001: English Composition	3
SPE 010: Fundamentals of Speech (Humanities C, D, or E)	3
DAN 010: Introduction to Dance I	0.5
	<hr/> 15.5

### SECOND SEMESTER

	s.h.
ART 022: Drawing II	3
ART 032: Three-Dimensional Design	3
CFT 110: Crafts Design	3
RAR 105: Aesthetic Experience in the Arts	3
PSY 011: General Psychology (Social Science B or C)	3
HEA 101: Current Health Issues (or HEA 115, 116, 120)	2/3
	<hr/> 17/18



<b>BACHELOR OF FINE ARTS IN COMMUNICATION DESIGN</b> <i>(Effective Fall 1991)</i>
------------------------------------------------------------------------------------------

### THIRD SEMESTER

	s.h.
FAR 151: Introduction to Life Drawing	3
Craft Elective —	3
CFT 131: Weaving I,	
CFT 141: Non-Loom Fabric Structures I,	
CFT 151: Wood Design I,	
CFT 161: Jewelry & Metalcraft I	
ARH 025: Art History B	3
ARU 227: Visual Arts in Human Development	3
PSY 140: Educational Psychology	3
Lab: Biological or Physical Science (Natural Science B)	3
	<hr/> 18

### FOURTH SEMESTER

	s.h.
FAR 111: Introduction to Painting	3
CFT 121: Ceramics I	3
Humanities course (Humanities C, D, or E)	3
History or Political Science course (Social Science A)	3
Mathematics course (Natural Science A) *	3
ARU 245: Curriculum Theory and Design	3
	<hr/> 18

(Stage II Requirements must be met including the Observation Booklet.)

### FIFTH SEMESTER

	s.h.
Two-Dimensional Elective	3
FAR 141: Introduction to Printmaking	
FAR 131: Introduction to Watercolor	
FAR 201: Serigraphy	
ARH 309: Art Since 1950	3
RAR 342: Criticism in Art	3
Natural Science Elective (Natural Science C) *	3
General Education Elective (Category 5A) *	3
DAN 011: Introduction to Dance II or PED 011 - 087: Physical Education I	0.5
	<hr/> 15.5

### SIXTH SEMESTER

	s.h.
ARU 301: Art Education Early Field Experience	3
FAR 238: Contemporary Visual Communication	3
ARU 327: Teaching Aesthetics, Criticism, and Art History	3
EDU 100: Perspectives on American Education	3
General Education Elective (Category 5B) *	3
	<hr/> 15

(Stage III Requirements must be met the semester prior to Student Teaching.)

\* If computer literacy has NOT been achieved prior to matriculation at Kutztown, then this state standard must be met in one of the following ways:

1. CIS/MAT 112: Survey of Computers and Computing (Natural Science A or C)
2. MIC 010: Computers in Our Lives or MIC/FAR 021: Microcomputer Graphics (Category 5)

### SEVENTH SEMESTER

	s.h.
Music or Theater course (Humanities B)	3
Social Science Elective (Social Science C)	3
Specialization Elective (Any ARH, ART, ARU, CDE, CFT, FAR, or RAR prefix may be taken.)	3
General Education Elective (Category 5 C) *	3
Humanities Elective (Humanities D or E)	3
Philosophy or Literature course (Humanities A)	3
	<hr/> 18

### EIGHTH SEMESTER

	s.h.
ARU 390: Student Teaching A	7
ARU 391: Student Teaching B	7
ARU 399: Student Exhibition	0
	<hr/> 14

#### Goals:

1. To provide programs which are commensurate with the demands of the fields of Graphic Design, Illustration and Advertising in a contemporary context.
2. To provide opportunities for the acquisition of knowledge and skills in the fields of Graphic Design, Illustration and Advertising at both general and specialized levels.
3. To provide an environment that is challenging and allows diversity and individual growth in the fields of Graphic Design, Illustration and Advertising.
4. To provide students with the knowledge, skills and attitudes to continue future professional, personal and artistic growth in the fields of Graphic Design, Illustration and Advertising.

#### Objectives:

1. To provide appropriate admission requirements in Communication Design.
2. To provide safe and appropriate environments for each academic and studio area in Communication Design.
3. To provide curricular flexibility at the upper level in order to foster cross-departmental study.
4. To provide in-depth academic and studio experiences in relationship to Communication Design.
5. To provide off-campus internships as opportunities to produce comprehensive enriching programs.

This program prepares students for a career in the field of Communication Design. Communication Design covers a broad range of professional activities including graphic design, advertising design and illustration. Students may select one or more of these general categories as a concentration leading to a variety of jobs including art directors, package designers, editorial designers, illustrators, corporate designers, and multi-media designers, to name a few specialties within the design field. Forty-eight semester hours in the General Education courses and eighty semester hours in the designated art studio courses are required for graduation.

## GENERAL EDUCATION REQUIREMENTS (48/49 s.h.)

1. **Basic Requirements: 6/7 s.h.**
  - A. English Composition – 3 s.h.
  - B. Health – 2/3 s.h.
  - C. Physical Education or Dance – 1 s.h.
2. **Humanities: 18 s.h.**
  - A. Art History (ARH 024 or 025) – 3 s.h.
  - B. Foreign Languages, Literature, Philosophy – 3 s.h.
  - C. Music, Speech, Theatre – 3 s.h.
  - D. Elective in any Humanities area above including ART 010, 015 and RAR courses – 9 s.h.
3. **Social Sciences: 9 s.h.**
  - A. History, Political Science – 3 s.h.
  - B. Anthropology, Economics, Geography, Psychology, or Sociology – 3 s.h.
  - C. Elective in any Social Science area above – 3 s.h.

(Specified GEG courses may NOT be taken in this category.)
4. **Natural Sciences/Math: 6 s.h.**
  - A. Biological Science with Lab, Physical Science with Lab, or GEG 320/321, 324/325 – 3 s.h.
  - B. Elective in Mathematics (except MAT 101) or the Natural Sciences

(including ENV 100 and specified GEG courses) – 3 s.h.

### 5. **Additional Elective: 9 s.h.**

Any courses (except for studio courses with ART, CDE, CFT, and FAR prefixes.) ART 010, 015 are permitted. – 3 s.h.

## MAJOR PROGRAM REQUIREMENTS FOR THE B.F.A. IN COMMUNICATION DESIGN (80 s.h.)

An additional 3 clock hours of work each week, outside of the scheduled class meeting times, is required in all studio courses.

### 1. **Basic Requirements: 62 s.h.**

- a. **Foundation Courses (12 s.h.)**  
Take EACH of the following courses:  
ART 021: Drawing I – 3 s.h.  
ART 022: Drawing II – 3 s.h.  
ART 031: Two-Dimensional Design – 3 s.h.  
ART 032: Three-Dimensional Design – 3 s.h.

(These courses should be taken in the first semesters to serve as a foundation for later coursework.)

- b. **Communication Design Requirements (29 s.h.)**

Take EACH of the following courses:  
CDE 101: Visual Thinking – 3 s.h.  
CDE 135: Letterforms – 3 s.h.  
CDE 141: Visual Translation – 3 s.h.  
CDE 151: Illustration Techniques – 3 s.h.  
CDE 230: Typography – 3 s.h.  
CDE 240: Production Processes – 3 s.h.  
CDE 250: Historical Survey of Graphic Design – 3 s.h.  
CDE 374: Portfolio Seminar – 2 s.h.  
CDE 399: Senior Exhibition – 0 s.h.  
FAR 151: Introduction to Life Drawing – 3 s.h.

FAR 161: Introduction to Photography – 3 s.h.

### c. **Concentration Selection (21 s.h.)**

Select THREE of the following courses: 9 s.h.  
CDE 238: Graphic Design I – 3 s.h.  
CDE 241: Advertising Design I – 3 s.h.  
CDE 252: Illustration I – 3 s.h.  
Art Studio Elective – 3 s.h. \*

Select TWO of the following courses: 6 s.h.  
CDE 239: Graphic Design II – 3 s.h.  
CDE 242: Advertising Design II – 3 s.h.  
CDE 253: Illustration II – 3 s.h.  
Art Studio Elective – 3 s.h. \*

Select TWO of the following courses: 6 s.h.  
CDE 326: Advertising Design III – 3 s.h.  
CDE 342: Graphic Design III – 3 s.h.  
CDE 352: Illustration Studio I – 3 s.h.  
Art Studio Elective – 3 s.h. \*

### 2. **Supplemental Requirements: 18 s.h.**

- a. for the Graphic Design, Advertising Design, or Photography Concentration

Select FOUR Workshop courses (2 credits each) – 8 s.h.

CDE 394: Internship or Art Studio Electives \* – 10 s.h.  
(To select CDE 394, students must have a "B" average in the specific concentration.)

- b. for the Illustration Concentration

Select THREE Workshop courses (2 credits each) – 6 s.h.

CDE 353: Illustration Studio II – 3 s.h.

Art Studio Electives \* – 9 s.h.

\* **Art Studio Electives** may be courses with the following prefixes: ART, CDE, CFT, FAR, or TVR 150, 200, 300. (Please note that TVR 200 and TVR 300 have prerequisites.) Up to 6 credits may be taken from courses with the following prefixes: ACC, BUS, MGM, MKT.

Available Topics for half semester **Workshop Courses** are as follows:

- Advanced Computer Layout
- Advanced Production Processes
- Advanced Typography
- Airbrush Techniques
- Animation
- Art of Humor, Satire and Caricature
- Art of the Book
- Campus Graphics
- Computer Illustration
- Designing with Multi-Media
- Drawing for Illustration
- Fashion Illustration
- Illustration in the Third Dimension
- Natural Science Illustration
- Package Design
- Restaurant Graphics

### **B.F.A. IN COMMUNICATION DESIGN by Semester Alignment**

(The General Education courses do not have to be taken in the sequence as listed below.)

#### **FIRST SEMESTER**

	s.h.
Drawing I	3
2-D Design	3
Humanities course	3
Natural Science/Math course	3
Humanities course	3
	<hr/> 15

#### **SECOND SEMESTER**

	s.h.
Drawing II	3
3-D Design	3
Health course	2
Natural Science/Math course	3
English Composition	3
Humanities course	3
	<hr/> 17

#### **THIRD SEMESTER (CD Introduction)**

	s.h.
Letterforms	3
Typography	3
Visual Thinking	3
Introduction to Life Drawing **	3
Humanities Course	3
Social Science Course	3
	<hr/> 18

#### **FOURTH SEMESTER (CD Introduction)**

	s.h.
Visual Translation (Computer)	3
Illustration Techniques	3
Introduction to Photography **	3
Historical Survey of Graphic Design	3
Social Science course	3
	<hr/> 15

\*\* Take either third or fourth semester

#### **FIFTH SEMESTER**

	s.h.
Select THREE from the following courses:	9
Graphic Design I	
Advertising Design I	
Illustration I	
Art Studio Elective	
Social Science course	3
Humanities course	3
Physical Education course	0.5
	<hr/> 15.5

#### **SIXTH SEMESTER**

	s.h.
Select TWO from the following courses:	6
Graphic Design II	
Advertising Design II	
Illustration II	
Art Studio Elective	
Production Processes	3
Humanities course	3
Academic Elective	3
Physical Education course	0.5
	<hr/> 15.5

#### **SEVENTH SEMESTER**

	s.h.
Select TWO from the following courses:	6
Graphic Design III	
Advertising Design III,	
Illustration Studio I	
Art Studio Elective ***	6
Workshop Course	2
Workshop Course	2
Academic or Art Studio Elective ****	3
Academic Elective	3
	<hr/> 16

(7th & 8th semesters are interchangeable for Graphic Design, Advertising Design, or Photography concentrations when taking Internship.)

#### **EIGHTH SEMESTER**

##### **Graphic Design, Advertising Design Concentrations**

	s.h.
Internship	10
Portfolio	2
Workshop course	2
Workshop course	2
	<hr/> 16

##### **Illustration Concentration**

	s.h.
Illustration Studio II	3
Art Studio Elective	3
Art Studio Elective	3
Portfolio	2
Workshop course	2
Academic Elective	3
	<hr/> 16

##### **Photography Concentration**

	s.h.
Internship	10
Portfolio	2
Workshop course	2
Workshop course (or Independent Study)	2
	<hr/> 16

\*\*\* Select TWO Art Studio Electives, if taking Photography Concentration.

\*\*\*\* Select an Art Studio Elective, if not taking Internship.

## BACHELOR OF FINE ARTS IN CRAFTS

(Effective Fall 1994)

### Goals:

1. To provide programs which are commensurate with the demands of the fields of Woodworking, Metalworking, Fibers and Ceramics in a contemporary context.
2. To provide opportunities for the acquisition of knowledge and skills in the fields of Woodworking, Metalworking, Fibers and Ceramics at both general and specialized levels.
3. To provide an environment that is challenging and allows diversity and individual growth in the fields of Woodworking, Metalworking, Fibers and Ceramics.
4. To provide students with the knowledge, skills and attitudes to continue future professional personal and artistic growth in the fields of Woodworking, Metalworking, Fibers and Ceramics.

### Objectives :

1. To provide appropriate admission requirements in Metalworking, Ceramics, Woodworking and Fibers.
2. To provide safe and appropriate environment for each academic and studio area in Metalworking, Ceramics, Woodworking and Fibers.
3. To provide curricular flexibility at the upper level in order to foster cross-departmental study.
4. To provide in-depth academic and studio experiences in relationship to Ceramics, Metalworking, Woodworking and Fibers.
5. To provide off-campus experiences in the fields of Metalworking, Woodworking, Fibers and Ceramics as opportunities to produce comprehensive enriching programs.

This program offers the student a comprehensive curriculum leading to a studio career or graduate study in Crafts.

This degree program requires 129/130 semester hours, 48/49 of which are in General Education, including Basic Requirements, Humanities, Social Sciences, and Natural Sciences.

The degree program is structured with a foundation year required of all studio majors. Following this year the student, with the assistance of his/her advisor, chooses Craft courses from a range of FOUR Craft studio areas: Ceramics, Fibers, Metal, and Wood. Students can choose to specialize in one area or choose from either a limited or diverse selection from all areas.

Students must seek advisement at all stages of their programs.

Admission into the craft program requires the submission of a portfolio.

### GENERAL EDUCATION REQUIREMENTS (48/49 s.h.)

1. **Basic Requirements: 6/7 s.h.**
  - A. English Composition – 3 s.h.
  - B. Health – 2/3 s.h.
  - C. Physical Education or Dance – 1 s.h.
2. **Humanities: 18 s.h.**
  - A. ARH 024: Art History A – 3 s.h.
  - B. ARH 025: Art History B – 3 s.h.
  - C. Foreign Language, Literature, or Philosophy – 3 s.h.
  - D. Music, Speech, Theatre, or Related Arts – 3 s.h.
  - E. Electives in any Humanities areas above (ART 015 is permitted) – 6 s.h.
3. **Social Sciences: 9 s.h.**
  - A. History, Political Science – 3 s.h.
  - B. Anthropology, Psychology, or Sociology – 3 s.h.
  - C. Economics or Geography – 3 s.h.

(Specified GEG courses may NOT be taken in this category.)

4. **Natural Sciences and Mathematics: 6 s.h.**
  - A. CHM 020/021: Introduction to Chemistry – 3 s.h.
  - B. Mathematics (except MAT 101) – 3 s.h.

5. **Additional Electives: 9 s.h.**  
ART 015 or any courses (except for studio courses with ART, CDE, CFT and FAR prefixes).

### MAJOR PROGRAM REQUIREMENTS FOR THE B.F.A. IN CRAFTS by Semester Alignment (81 s.h.)

An additional 3 clock hours of work each week, outside of the scheduled class meeting times, is required in all Studio courses.

#### FIRST SEMESTER

	s.h.
ENG 001: English Composition I	3
ART 021: Drawing I	3
ART 031: Two-Dimensional Design	3
ARH 024: Art History A	3
Humanities course	3
	<hr/> 15

#### SECOND SEMESTER

	s.h.
ARH 025: Art History B	3
Health course	
(HEA 101, 115, 116, or 120)	2/3
ART 022: Drawing II	3
ART 032: Three-Dimensional Design	3
Crafts Specialization course	3
General Education Elective	3
	<hr/> 17/18

#### THIRD SEMESTER

	s.h.
Social Science course	3
Humanities course	3
FAR 120: Graphic Drawing	
Techniques for the Designer	3
FAR 171: Introduction to Sculpture	3
Crafts Specialization course	3
	<hr/> 15

**FOURTH SEMESTER**

	s.h.
Social Science course	3
FAR 111: Introduction to Painting or	
FAR 131: Introduction to Watercolor Painting	3
FAR 161: Photography I	3
CFT 010: A Survey of Crafts	3
Crafts Specialization course	3
Crafts Selection course	3
	<u>18</u>

**FIFTH SEMESTER**

	s.h.
Math course (except MAT 101)	3
Physical Ed. or Dance course	0.5
Open Elective	3
(Select course from the following prefixes: ARH, ART, ARU, CFT, CDE, FAR, or RAR)	
General Education Elective	3
Crafts Specialization course	3
Crafts Selection course	3
	<u>15.5</u>

**SIXTH SEMESTER**

	s.h.
Humanities course	3
Craft Selection Core or	
CFT 381: Senior Craft Seminar*	3
Physical Ed. or Dance course	0.5
Crafts Specialization course	3
Open Elective	3
(Select course from the following prefixes: ARH, ART, ARU, CFT, CDE, FAR, or RAR)	
CHM 020/021: Introduction to Chemistry	3
	<u>15.5</u>

**SEVENTH SEMESTER**

	s.h.
Humanities course	3
General Education Elective	3
Art History Elective	3
Open Elective	3
(Select course from the following prefixes: ARH, ART, ARU, CFT, CDE, FAR, or RAR)	
Crafts Specialization course	3
Crafts Selection course	3
	<u>18</u>

**EIGHTH SEMESTER**

	s.h.
Social Science course	3
CFT 381: Senior Craft Seminar *	
or	
General Education Elective	3
Crafts Specialization course	3
Crafts Selection course	3
Open Elective	3
(Select courses from the following prefixes: ARH, ART, ARU, CDE, CFT, FAR, or RAR)	
CFT 399: Student Exhibition **	0
	<u>15</u>

\* CFT 381: Senior Crafts Seminar is offered every 2nd year during the Spring Semester. Students will take this course either in the 6th or 8th semester, depending upon the year in which the course is being offered, interchanging with a General Education Elective.

\*\* During the Senior year each student shall be expected to exhibit examples of his/her work. The student will schedule his/her exhibition by registering for CFT 399: Student Exhibition.

FAR 120 and CFT 010 are offered every other semester. Students should check the course selection catalog carefully.

Each 300 level Crafts studio is repeatable for up to 15 s.h. However, students are limited to one studio course (3 s.h.) per Crafts area each semester.

**BACHELOR OF FINE ARTS  
IN STUDIO ART***(Effective Fall 1990)***Goals:**

1. To provide programs which are commensurate with the demands of the fields of Painting, Sculpture, Drawing, Printmaking and Photography in a contemporary context.
2. To provide opportunities for the acquisition of knowledge and skills in the fields of Painting, Sculpture, Drawing, Printmaking and Photography at both general and specialized levels.
3. To provide an environment which is challenging and allows diversity and individual growth in the field of Painting, Sculpture, Drawing, Printmaking and Photography.
4. To provide students with the knowledge, skills and attitudes to continue future professional, personal and artistic growth in the fields of Painting, Sculpture, Drawing, Printmaking and Photography.

**Objectives:**

1. To provide appropriate admission requirements in the fields of Painting, Sculpture, Drawing, Printmaking and Photography.
2. To provide safe and appropriate environments for each academic and studio area in the areas of Painting, Sculpture, Drawing, Printmaking and Photography.
3. To provide a solid grounding in drawing and history of art for all students in the visual arts.
4. To provide education in the fields of Life Drawing and Painting to students in Art Education as well as Fine Arts.

5. To provide education in the fields of Life Drawing and Photography to students in Communication Design.
6. To provide education in the fields of Painting and Photography to students in Crafts.
7. To provide curricular flexibility at the upper level in order to encourage cross-departmental study.
8. To provide in-depth academic and studio experiences in the fields of Painting, Sculpture, Printmaking, Photography and Drawing.
9. To provide off-campus field experiences as opportunities to produce comprehensive enriching programs in the fields of Painting, Sculpture, Printmaking, Photography, Drawing and Gallery/Museum experience.

Students wishing professional training in Fine Arts will find this curriculum both comprehensive and flexible. Fine Arts Studio majors are required to take 48 semester hours in General Education, 12 semester hours of foundation requirements in drawing and design, 18 semester hours of introductory courses in life drawing, painting, photography, print-making, sculpture, and studio materials. Eighteen semester hours of advanced concentration (300 level or above) in **one** studio area are required so students can acquire in-depth learning in a studio area of their choice. Twelve semester hours of Art History including two surveys (ARH 024 and ARH 025) and two specialized courses are required to augment studio work. One of the three hour courses can be used in Category 2-A in General Education. Twenty-three semester hours of additional art electives allow the student to build upon this strong major and develop other studio or art history experiences. Graduates of this program may pursue advanced degrees, teach in private schools and art centers, work as illustrators, photographers, etc. or become proficient, self supporting fine artists.

## GENERAL EDUCATION REQUIREMENTS (48/49 s.h.)

1. **Basic Requirements: 6/7 s.h.**
  - A. English Composition – 3 s.h.
  - B. Health – 2/3 s.h.
  - C. Physical Education or Dance – 1 s.h.
2. **Humanities: 18 s.h.**
  - A. ARH 024 or 025 – 3 s.h.
  - B. Foreign Languages, Literature, or Philosophy – 3 s.h.
  - C. Music, Speech, or Theatre – 3 s.h.
  - D. Elective in any Humanities area above except Art History courses (RAR 015, 105 and 342 are permitted.) – 9 s.h.
3. **Social Sciences: 9 s.h.**
  - A. History, Political Science – 3 s.h.
  - B. Anthropology, Economics, Geography, Psychology, or Sociology – 3 s.h.
  - C. Elective in any Social Science area above – 3 s.h.

(Specified GEG courses may NOT be taken in this category.)

4. **Natural Sciences/Math: 6 s.h.**
    - A. Biological Science with Lab, Physical Science with Lab, or GEG 320/321, 324/325 – 3 s.h.
    - B. Elective in Math (except MAT 101) or the Natural Sciences — 3 s.h.
- (ENV 100 and specified GEG courses may be taken as an elective in this category.)

5. **Additional Elective: 9 s.h.**
  - A. Select any courses (except for studio courses with ART, CDE, CFT and FAR prefixes and except for DAN 010, 011, MAT 101, PED 011-087) – 3 s.h.

## MAJOR PROGRAM REQUIREMENTS FOR THE B.F.A. IN STUDIO ART by Semester Alignment (80 s.h.)

An additional 3 clock hours of work each week, outside of the scheduled class meeting times, is required in all studio courses.

(Sequence of Courses Subject to Change for Administrative Reasons)

### FIRST SEMESTER

	s.h.
Drawing I	3
Two-Dimensional Design	3
Humanities course	3
Natural Science/Math course	3
Additional Elective	3
	<hr/> 15

### SECOND SEMESTER

	s.h.
Drawing II	3
Three-Dimensional Design	3
Natural Science/Math course	3
English Composition	3
Additional Elective	3
	<hr/> 15

### THIRD SEMESTER

	s.h.
Introduction to Painting*	3
Introduction to Printmaking*	3
Health course	2
Humanities course	3
Social Science course	3
Studio Materials *	3
	<hr/> 17

### FOURTH SEMESTER

	s.h.
Introduction to Photography	3
Introduction to Life Drawing*	3
Introduction to Sculpture*	3
Humanities course	3
Social Science course	3
Physical Education course	0.5
	<hr/> 15.5

\* May be taken either third or fourth semester

## FIFTH SEMESTER

	s.h.
Studio Concentration	3
Studio Concentration or	
Art Elective	3
Art Elective	3
Art Elective or Art History Elective	3
Additional Elective	3
Humanities course	3
	<hr/> 18

## SIXTH SEMESTER

	s.h.
Studio Concentration	3
Studio Concentration or	
Art Elective	3
Art Elective	3
Art Elective or Art History Elective	3
Humanities course	3
Physical Education course	0.5
	<hr/> 15.5

## SEVENTH SEMESTER

	s.h.
Studio Concentration	3
Studio Concentration or	
Art Elective	3
Art Elective	3
Art Elective or Art History Elective	3
Social Science course	3
Art Elective	3
	<hr/> 18

## EIGHTH SEMESTER

	s.h.
Studio Concentration	3
Studio Concentration or	
Art Elective	3
Art Elective	3
Art Elective or Art History Elective	3
Humanities course	3
	<hr/> 15

Advanced studio courses will be offered each semester to fulfill art studio concentration and elective needs. A maximum of 6 s.h. in any one art studio course is permitted in one semester but only if the student registers for two separate 3 s.h. sections of that course.

A student may fulfill art elective needs by taking any course listed under Art History, Communication Design, Crafts, Fine Arts or Related Arts.

Students are encouraged to take Art History courses. Up to 9 s.h. may be counted within Art Electives. During the second semester of the senior year each student shall be required to enroll in FAR 399 and exhibit examples of his/her work.

300 level courses in Watercolor Studio, Serigraphy Studio, Ceramics Studio, and Wood Design Studio all have prerequisite introductory courses. It is best to take these introductory courses during the Sophomore year or at the beginning of the Junior year. These courses should be counted under Art Electives.

## BACHELOR OF ARTS IN MUSIC

(Effective Fall 1986)

### Goal:

The B. A. Music program seeks to enhance the quality of Kutztown University by offering the study of music to interested students and providing the university community with the opportunity to enjoy both student and professional performances on campus.

### Objectives:

1. To offer courses in General Education, including Music Literature, Theory/Composition and Performance to the entire University.
2. To serve the College of Education through continued course work in Elementary Music Methods as well as through a Music concentration in Elementary Education for those students who wish to enhance their teaching skills.
3. To recognize the importance of the B. A. Music degree as a means of attracting talented performing musicians, as ways of preparing those students who wish to enter graduate level programs in music as well as providing a foundation for various professional careers related to music.

4. To develop and maintain a variety of performing organizations ranging from large groups to small ensembles as well as provide instruction in applied music.
5. To develop and maintain concomitant and Music minor curricula that serve students enrolled in other major degree programs.

This program provides students with an integrated approach to musical knowledge and skills. The program consists of 38 semester hours of Music courses which may include up to 9 semester hours of Applied Music.

This includes courses and experiences in Music History, Music Theory and Composition, and Music Performance. Graduates may find employment in a wide variety of musical or musically related endeavors such as private teaching, performing, music retailing, publishing, and music librarianship.

## GENERAL EDUCATION REQUIREMENTS: (60 s.h.)

1. **Basic Requirements: 15/16 s.h.**
  - A. Composition – 3 s.h.
  - B. SPE 010: Fundamentals of Speech – 3 s.h.
  - C. Foreign Language – 6 s.h.\*
  - D. Health – 2/3 s.h.
  - E. Physical Education I, II or Dance I, II – 1 s.h.
2. **Humanities: 12 s.h.**
  - A. Literature – 3 s.h.
  - B. Music, Speech, or Theatre – 3 s.h.
  - C. Art History or Philosophy – 3 s.h. (ART 010, 015 and RAR 105, 342 are permitted.)
  - D. Elective in Humanities or Foreign Language – 3 s.h. (ART 010, 015 and RAR courses are permitted.)

**3. Social Sciences: 12 s.h.**

- A. History or Political Science – 3 s.h.
- B. Anthropology, Psychology, or Sociology – 3 s.h.
- C. Geography or Economics – 3 s.h.
- D. Elective in any Social Sciences discipline listed in this group – 3 s.h.

(Specified GEG courses may NOT be taken in this category.)

**4. Natural Sciences and Mathematics: 12 s.h.**

- A. Math (except MAT 101) – 3 s.h.
- B. Biological Science with Lab – 3 s.h.
- C. Physical Science with Lab or GEG 320/321, 324/325 – 3 s.h.
- D. Elective in any Natural Sciences discipline or in Mathematics (except MAT 101) – 3 s.h.

(ENV 100 and specified GEG courses may be taken as an elective in this category.)

**5. General Education Electives: 9 s.h.\*\***

Select any courses from the approved prefixes as listed in the Advisement Handbook (except MUS courses and DAN 010, 011; MAT 101; PED 011-087).

\* The Foreign Language requirement under Section 1 must be satisfied by two courses in the same language at the intermediate level or above. Foreign Language courses at the elementary level (011, 012) may be taken under Section 5 of General Education.

\*\* Up to nine semester hours of credit in Studio Art may be taken under Category 5 of General Education.

**MAJOR PROGRAM REQUIREMENTS FOR THE B.A. IN MUSIC: (68 s.h.)**

**1. Basic Requirements: 20 s.h.**

Take EACH of the following courses:

- MUS 010: Introduction to Music Literature – 3 s.h.
- MUS 102: Harmony & Theory I – 3 s.h.
- MUS 180: Sight Singing I – 3 s.h.
- MUS 202: Harmony & Theory II – 3 s.h.
- MUS 310: Composition Arranging – 3 s.h.
- MUS 325: Conducting (Vocal & Instrument) – 3 s.h.
- MUS 380: Pro-Sem in Music – 2 s.h.

**2. Music Literature: 3 s.h.**

Select ONE of the following courses:  
MUS 100, 128, 205, 207, 210, 211, 212, 215, 217, 219, 220, 225, 280, 320, 327, 330

**3. Applied Music: 4 s.h.**

Select any combination of the following courses:

- a. Instrumental or Vocal
- b. Large Performing Groups
- c. Small Ensembles

**4. Music Electives: 14 s.h.**

Select any courses with the MUS prefix (except MUS 223, 229).

(Up to 5 s.h. of Applied Music may be used in this category.)

**5. Concomitant Courses: 12 s.h.**

Select any courses from the approved prefixes as listed in the Advisement Handbook.

**6. Open Electives: 15 s.h.**

Select any courses from the approved prefixes as listed in the Advisement Handbook.

A maximum of 9 s.h. may be taken in Applied Music courses in the entire degree program.

MUS 020: Basic Concepts and Skills of Music, or its equivalent, is a prerequisite for MUS 102. MUS 020 may be used as a Music Elective.

No more than 44 s.h. in courses with a MUS/MVP prefix may be counted toward the 128 s.h. required for graduation. Music courses which are listed with multiple prefixes (e.g. MUS/THE) are calculated as part of the 44 s.h. limit.

**BACHELOR OF FINE ARTS  
IN RELATED ARTS**  
(Effective dates vary)

**Goal:**

The Related Arts program prepares students to:

- 1. produce a body of creative work.
- 2. explore the interrelationships between emerging practices in contemporary art and the theories that inform them.
- 3. integrate material from a variety of disciplines, including but not limited to the arts.
- 4. employ collaborative means nurtured through reflective processes.

**Objectives/Outcomes:**

- 1. Students will be able to talk or write about Related Arts works in an informed manner using appropriate vocabulary.
- 2. Students will understand the history, traditions and cultural milieu associated with these art forms.
- 3. Students will employ appropriate community resources to assist them in their research and creative endeavors.
- 4. Students will use appropriate media to construct or produce Related Arts projects.



5. Students will construct and routinely assess critical and performance goals.
6. Students will be able to identify courses and alternative opportunities that will aid in realizing their critical and performance goals.
7. Students will align themselves within an artistic tradition and be able to identify ways in which their works follow from it.
8. Students will formulate a statement that positions their work within disciplinary and historical contexts.
9. Students will be able to present their work effectively in a variety of personal, community, vocational and academic contexts.
10. Students will understand, utilize and value the collaborative dimensions of making and responding to Related Artworks.

This program has been developed for the student whose interest spans the various Related Arts of Dance, Literature and Writing, Music, Theatre, and the Visual Arts. The program is appropriate for students who seek to enter such multi-media fields as television, opera, theatre, arts administration or arts criticism, because it provides them with a broad overview of all the arts from both the production/performance and critical/historical points of view.

## GENERAL EDUCATION REQUIREMENTS (48/49 s.h.)

1. **Basic Requirements: 6/7 s.h.**
  - A. English Composition – 3 s.h.
  - B. Health – 2/3 s.h.
  - C. Dance – 1 s.h.
2. **Humanities: 18 s.h.**
  - A. Any ARH course or PHI 260 – 3 s.h.
  - B. Foreign Languages, Literature, or Philosophy – 3 s.h.
  - C. Music, Speech, or Theatre – 3 s.h.
  - D. Electives in any Humanities area above including RAR courses – 9 s.h.
3. **Social Sciences: 9 s.h.**
  - A. History, Political Science – 3 s.h.
  - B. Anthropology, Economics, Geography, Psychology, or Sociology – 3 s.h.
  - C. Elective in any Social Science area above – 3 s.h.

(Specified GEG courses may NOT be taken in this category.)

4. **Natural Science/Math: 6 s.h.**
  - A. Biological Science with Lab, Physical Science with Lab or GEG 320/321, 324/325 – 3 s.h.
  - B. Elective in Math (except MAT 101) or the Natural Sciences – 3 s.h.

(ENV 100 and specified GEG courses may be chosen for the elective in this category.)

5. **Additional Elective: 9 s.h.**  
Select any courses from the approved prefixes as listed in the Advisement Handbook (except courses from Area of Specialization and DAN 010, 011; MAT 101; or PED 011-087).

## MAJOR PROGRAM REQUIREMENTS FOR THE B.F.A. IN RELATED ARTS (80 s.h.)

1. **Basic Requirements: 9 s.h.**  
Take EACH of the following courses:  
RAR 105: Aesthetic Experience in Arts – 3 s.h.  
RAR 380: Related Arts Seminar – 3 s.h.  
RAR 381: Related Arts Workshop – 3 s.h.
2. **Areas of Specialization: 30/36 s.h.**  
Choose ONE of the following Related Arts areas: Dance, Literature & Writing, Music, Theatre, and Visual Arts. Select courses as specified in the requirements for the chosen area as listed in the Advisement Handbook.
3. **Supplemental Areas: 30 s.h.**  
Excluding the area chosen above as an Area of Specialization, choose TWO other Related Arts areas. Select 15 s.h. in EACH of these Supplemental Areas as specified in the requirements for the areas chosen as listed in the Advisement Handbook.
4. **Open Electives: 11 s.h.**  
Select courses from any Related Arts area (except courses from the chosen Area of Specialization or from the chosen Supplemental Areas). RAR courses and ENG 020, 141, 241 are permitted regardless of the chosen Area of Specialization or Supplemental Areas.

# **BACHELOR OF ARTS IN SPEECH COMMUNICATION** (Effective Fall 1990)

## **Mission:**

The mission of the B.A. Speech Communication program is to develop within students the attitudes, knowledge, training and character to support responsible communication and participation in a democratic society.

## **Goals:**

- I. To provide Speech Communication majors with in-depth studies:
  - a. so they may apply knowledge of human communication to pedagogical and professional pursuits.
  - b. so they may prepare for advanced study in Speech Communication.
- II. To provide for the general education of undergraduates in order that students, regardless of curriculum preference, will be able to:
  - a. communicate effectively orally, exercise reasoning power and make decisions with due consideration for the ethical and social issues involved.
  - b. complete Speech Communication courses in support of selected majors, minors and/or concomitants.
  - c. understand, appreciate and critically react to the aesthetic dimension of human experience.

## **Objectives:**

Upon completion of the B. A. Speech Communication program, students will be able to:

1. demonstrate an understanding of the elements of the communication process.
2. present ideas with clarity utilizing resourcefulness and moral responsibility.

3. understand and apply ethical dimensions to communication situations.
4. apply communication strategies appropriate to a variety of communication contexts.
5. discuss historical and contemporary theories, techniques and effects of human communication.
6. analyze and evaluate public speakers.
7. demonstrate an understanding of the process and effects of communication in organizational, small group and interpersonal settings.
8. demonstrate an understanding of the role of culture as an element in the communication process.
9. critically examine and use argument in a variety of communication settings.
10. critically evaluate and present a variety of cultural and aesthetic texts.
11. understand and implement research and technological methodologies consistent with the objectives of our courses.

This curriculum prepares students to conduct conferences, workshops and management development programs in such fields as public relations, insurance, public utilities and advertising, as well as preparation for the professions of law and ministry. Course work includes persuasion, interviewing, oral interpretation, listening and public relations. An internship gives on-the-job training. Additional courses in the arts and sciences, as well as a block of freely chosen electives, permits the student to choose many complementary courses, including art, television, computer science and journalism.

## **GENERAL EDUCATION REQUIREMENTS (60 s.h.)**

1. **Basic Requirements: 15 s.h.**
  - A. Composition – 3 s.h.
  - B. SPE 010: Fundamentals of Speech – 3 s.h.
  - C. Foreign Language – 6 s.h. \*
  - D. Health – 2/3 s.h.
  - E. Physical Education I, II – 1 s.h. (DAN 010 & 011 or PED 011-087 satisfy this requirement).
2. **Humanities: 12 s.h.**
  - A. Literature – 3 s.h.
  - B. Music, Speech, or Theatre – 3 s.h.
  - C. Art History or Philosophy: – 3 s.h. (ART 010, 015, RAR 105, 342 are permitted.)
  - D. Elective in Humanities or Foreign Language – 3 s.h. (ART 010, 015, and RAR courses are permitted.)
3. **Social Sciences: 12 s.h.**
  - A. History or Political Science – 3 s.h.
  - B. Anthropology, Psychology, or Sociology – 3 s.h.
  - C. Economics or Geography – 3 s.h.
  - D. Elective in any Social Sciences discipline listed in this group – 3 s.h.

(Specified GEG courses may NOT be taken in this category.)
4. **Natural Science and Mathematics: 12 s.h.**
  - A. Mathematics (except MAT 101) or MAT/CIS – 3 s.h.
  - B. Biological Science with Lab – 3 s.h.
  - C. Physical Science with Lab or GEG 320/321, 324/325 – 3 s.h.
  - D. Elective in any Natural Science or Mathematics (except MAT 101) – 3 s.h.

(ENV 100 and specified GEG courses may be taken as an elective in this category.)

**5. General Education**

**Electives: 9 s.h. \***

Select any courses from the approved prefixes as listed in the Advisement Handbook (except SPE courses and DAN 010, 011; MAT 101, PED 011-087).

- \* The Foreign Language requirement under Section 1 must be satisfied by two courses in the same language at the intermediate level or above. Foreign Language courses at the elementary level (011, 012) may be taken under Section 5 of General Education.

**MAJOR PROGRAM  
REQUIREMENTS FOR THE  
B.A. IN SPEECH  
COMMUNICATION (68 s.h.)**

**1. Basic Requirements: 24 s.h.**

Take EACH of the following courses:

- SPE 101: Introduction to Speech  
Communication Theory  
and Research  
SPE 110: Small Group  
Communication – 3 s.h.  
SPE 120: Oral Interpretation I – 3 s.h.  
SPE 130: Interpersonal  
Communication – 3 s.h.  
SPE 205: Argumentation and  
Debate – 3 s.h.  
SPE 210: Persuasive Speaking:  
Theory and Practice – 3 s.h.  
SPE 327: Rhetorical Theory and  
Criticism – 3 s.h.  
SPE 380: Senior Seminar – 3 s.h.

**2. Speech Electives: 20 s.h.**

- a. Select any course with SPE  
prefix at the 200 level or above  
(except SPE 390): 12 s.h.
- b. Select any course with SPE  
prefix (except SPE 010): 11 s.h.
- (A maximum of 6 s.h. in SPE 390,  
Speech Communication  
Internship, are usable for  
graduation.)

**3. Concomitant Courses: 11/12 s.h.**

- a. Take ONE of the following  
courses: 2/3 s.h.  
TVR 010: Introduction to  
Telecommunications –  
3 s.h.  
TVR 150: Fundamentals of  
Television Production –  
3 s.h.  
TVR 220: Communication Law –  
2 s.h.

(Students taking TVR 220 must  
select 13 s.h. of Open Electives.)

- b. Select courses from any of the  
specified courses or approved  
prefixes as listed in the  
Advisement Handbook: 9 s.h.

**4. Open Electives: 12/13 s.h.**

Select any courses from the  
approved prefixes as listed in the  
Advisement Handbook.

**BACHELOR OF ARTS  
IN THEATRE**

(Effective Fall 1990)

**Mission:**

The mission of the B. A. Theatre  
degree program at Kutztown  
University is to provide students with  
an understanding and appreciation of  
the nature and function of theatre, not  
only as an art form but also as a craft,  
through a firm grounding in all the  
major areas of theatre.

**Goals:**

1. To provide multiple opportunities  
for each student to develop  
fundamental training necessary to  
pursue a future career in one (or  
more) of the following areas of the  
educational or professional  
theatre: acting, directing, design,  
technical theatre (costumes,  
lighting, construction), theatre  
management, musical theatre and  
theatre/communications.
2. To provide an environment within  
which both majors and non-majors  
can explore their own potential in  
theatre through extra-curricular

and co-curricular programs  
designed to place equal emphasis  
on academic students and creative  
experiences.

3. To develop men and women who  
can draw upon their liberal arts  
education to enrich their lives and  
work, giving them an increased  
sensitivity to the cultural, social  
and ethical dimensions of their  
work in theatre.
4. To prepare students for graduate  
studies in theatre.
5. To accentuate the affective  
approach as well as the cognitive  
approach to theatre training  
through intensified one-on-one  
teacher/student relationships in  
both courses and production  
activities.
6. To provide in-depth theatre  
experiences for qualified students  
through work on faculty-directed  
productions in such areas as:  
performance, management,  
direction and design.
7. To provide opportunities for student  
internships with professional  
theatre companies, particularly in  
Pennsylvania and in New York City.
8. To instill in all students a sense of  
commitment to a high set of  
standards regarding any work they  
do in theatre at whatever level.
9. To create a learning environment  
that enable students to understand  
and experience the value of  
integrating their commitment to  
theatre with a fundamental  
commitment to the critical  
principles of the cultural, social  
and ethical dimensions of their  
work in theatre.

**Objectives:**

Upon completion of the B. A. Theatre program, students will be able to:

1. appreciate theatre as an art form important to society.
2. recognize significant forms and styles of production.
3. develop a *critical eye and ear* in seeing and reading plays.
4. develop an aesthetic sense, combining an appreciation of the visual and aural aspects of a theatrical production.
5. apply to and be accepted by an accredited graduate theatre program.
6. enter the world of professional theatre at the entry level, having been provided with the fundamental work towards entering the theatre.
7. understand that their academic training in theatre, as part of a liberal arts education, is not *just* for the sake of theatre but serves as a preparation for the world outside the theatre.

This curriculum provides a basic foundation of coursework toward a life in the profession — acting, directing, designing, building, managing or marketing or entry into graduate study. Courses include play analysis, history and criticism, movement and voice. Each semester short and long productions provide opportunity to apply and develop skill. An internship provides training in a professional theatre. Supplementary courses in the arts and sciences enable each student to become more flexible in meeting the job market.

## GENERAL EDUCATION REQUIREMENTS: (60 s.h.)

1. **Basic Requirements: 15/16 s.h.**
  - A. Composition — 3 s.h.
  - B. SPE 010: Fundamentals of Speech — 3 s.h.
  - C. Foreign Language — 6 s.h. \*
  - D. Health — 2/3 s.h.
  - E. Physical Education I, II — 1 s.h. (DAN 010 & 011 or PED 011-087 satisfy this requirement.)
2. **Humanities: 12 s.h.**
  - A. Literature — 3 s.h.
  - B. Music, Speech, or Theatre — 3 s.h.
  - C. Art History or Philosophy — 3 s.h. (ART 010, 015 and RAR 105, 342 are permitted.)
  - D. Elective in Humanities or Foreign Language — 3 s.h. (ART 010, 015, and RAR courses are permitted.)
3. **Social Sciences: 12 s.h.**
  - A. History or Political Science — 3 s.h.
  - B. Anthropology, Psychology or Sociology — 3 s.h.
  - C. Economics or Geography — 3 s.h.
  - D. Elective in any Social Sciences discipline listed in this group — 3 s.h.

(Specified GEG courses may NOT be taken in this category.)
4. **Natural Science and Mathematics: 12 s.h.**
  - A. MAT (except MAT 101) or MAT/CIS — 3 s.h.
  - B. Biological Science with Lab — 3 s.h.
  - C. Physical Science with Lab or GEG 320/321, 324/325 — 3 s.h.
  - D. Elective in any Natural Science or Mathematics (except MAT 101) — 3 s.h.

(ENV 100 and specified GEG courses may be taken as an elective in this category.)

5. **General Education Electives: 9 s.h.\***  
Select any courses from the approved prefixes as listed in the Advisement Handbook (except THE courses and DAN 010, 011; MAT 101; PED 011-087).

\* The Foreign Language requirement under Section 1 must be satisfied by two courses in the same language at the intermediate level or above. Foreign Language courses at the elementary level (011, 012) may be taken under Section 5 of General Education.

## MAJOR PROGRAM REQUIREMENTS FOR THE B.A. IN THEATRE (68 s.h.)

1. **Basic Requirements: 24 s.h.**

Take EACH of the following courses: 24 s.h.

THE 015: Introduction to Theatre — 3 s.h.  
 THE 131: Fundamentals of Acting — 3 s.h.  
 THE 140: Play Production — 3 s.h.  
 THE 195: Theatre Practicum — .5 s.h.  
 (THE 195 must be taken six times to earn the required 3 s.h.)  
 THE 321: History of Theatre I — 3 s.h.  
 THE 322: History of Theatre II — 3 s.h.  
 THE 330: Dramatic Theory and Criticism — 3 s.h.  
 THE 380: Senior Seminar — 3 s.h.

2. **Theatre Electives: 14/20 s.h.**

- a. Select any course with THE prefix at the 200 level or above (except THE 390): 9 s.h.
- b. Select any course with THE prefix: 5/11 s.h.

### 3. Concomitant Courses: 12 s.h.

- a. Take the following course: 3 s.h.  
SPE 051: Voice and Diction
- b. Select ONE of the following courses: 3 s.h.

ENG 330: Shakespeare on the Stage – 3 s.h.

ENG 331: Shakespeare's Earlier Plays – 3 s.h.

ENG 332: Shakespeare's Later Plays – 3 s.h.

- c. Select TWO of the following courses (not taken above): 6 s.h.

ENG 324: Elizabethan and Jacobean Drama – 3 s.h.

ENG 330: Shakespeare on the Stage – 3 s.h.

ENG 331: Shakespeare's Earlier Plays – 3 s.h.

ENG 332: Shakespeare's Later Plays – 3 s.h.

ENG 353: Development of the Drama – 3 s.h.

ENG 363: Modern Drama – 3 s.h.

ENG 438: Major Modern Dramatists – 3 s.h.

THE 370: Independent Study in Theatre: Dramatic Literature – 3 s.h.

(No course may be used in both General Education and in the Concomitant Area.)

### 4. Open Electives: 12/18 s.h.

Select any courses from the approved prefixes as listed in the Advisement Handbook.

No more than 44 s.h. in courses with a THE prefix may be counted toward the 128 s.h. required for graduation.

Theatre courses which are listed with multiple prefixes (e.g. MUS/THE) are calculated as part of the 44 s.h. limit.

# College of Liberal Arts and Sciences

The College of Liberal Arts and Sciences offers seventeen programs leading to the Bachelor of Arts degree and fifteen leading to the Bachelor of Science degree.

Specific requirements vary from one program to another, but all programs include the same four divisions: (1) General Education, (2) Major, (3) Concomitant Courses, and (4) Free Electives. In each division a minimum number of semester hours is required.

To earn either the Bachelor of Arts or the Bachelor of Science degree, students must satisfy all specified course requirements, successfully complete at least 128 semester hours (with a cumulative quality point average no lower than 2.00 and with a quality point average in the major no lower than 2.00) and pass a comprehensive examination. The ultimate responsibility for scheduling necessary courses and satisfying all other requirements for graduation in a degree program rests with the student.

## BACHELOR OF ARTS

### General Education Requirements: (60 s.h.)

1. **Basic Requirements: 15 s.h.**
  - A. Composition – 3 s.h.
  - B. Oral Communication – 3 s.h.\*
  - C. Foreign Language – 6 s.h.\*\*
  - D. Health – 2 s.h.
  - E. Physical Education I, II – 1 s.h.
2. **Humanities: 12 s.h.**
  - A. Literature – 3 s.h.
  - B. Music\*\*\* or Speech or Theatre – 3 s.h.
  - C. Art History\*\*\*, or ART 010 or ART 105, Philosophy or Related Arts 105 – 3 s.h.
  - D. Elective in any Humanities (including Foreign Language) discipline listed in this group – 3 s.h.
3. **Social Sciences: 12 s.h.**
  - A. History or Political Science – 3 s.h.
  - B. Sociology, Anthropology or Psychology – 3 s.h.
  - C. Geography or Economics – 3 s.h.
  - D. Elective in any Social Science discipline listed in this group and courses designated International Studies – 3 s.h.
4. **Natural Sciences and Mathematics: 12 s.h.**
  - A. Mathematics or Computer Information Science – 3 s.h..
  - B. Biological Science (Laboratory) – 3 s.h.
  - C. Physical Science (Lab.) – 3 s.h.
  - D. Elective in any Natural Sciences discipline or in Mathematics – 3 s.h.

### 5. General Education: 9 s.h.

\*\*\*Courses may be selected in any one of — or any combination of — the disciplines listed under Sections 1 through 4, with the exception of certain Physical Education courses.

### 6. Comprehensive examination

\* SPE 010 fulfills the oral communication requirement.

\*\* The Foreign Language requirement under Section 1 must be satisfied by two courses in the same language at the intermediate level or above. Foreign Language courses at the elementary level (011, 012) may be taken under Section 5 of General Education.

\*\*\* Up to six semester hours of applied music and nine semester hours of Studio Art may be taken under Category 5 of General Education.

## PROGRAM OFFERINGS

Seventeen programs lead to the Bachelor of Arts degree. Students enrolled in these programs must satisfy the General Education requirement for this degree and must complete 128 semester hours in accordance with all specifications. No more than 44 semester hours in any discipline may be counted towards degree requirements. A detailed description of each program may be obtained from the department offering the degree.

## MAJOR PROGRAMS

Major programs leading to the Bachelor of Arts Degree are offered in the following disciplines:

Anthropology  
English  
French  
General Studies  
Geography  
German  
History  
Mathematics  
Philosophy  
Political Science  
Psychology  
Russian  
Social Work  
Sociology  
Spanish

## DEGREE REQUIREMENTS

1. **General Education** — Sixty (60) semester hours distributed in accordance with the General Education Program in the Liberal Arts and Sciences.
2. **Major Program** — Each department in the College, through its respective faculty and the university's academic approval procedures, determines the courses and number of credit hours required for its programs in the major, minor and the related concomitant area. At least six courses besides the Senior Seminar must be in upper division courses. No more than forty-four semester hours in one discipline may be counted towards the Bachelor of Arts degree.
3. **Concomitant Courses** — Twelve (12) semester hours of courses which supplement the Major Program and contribute to its scholarly comprehension.

4. **Free Electives** — Courses in any discipline under Liberal Arts and Sciences or in the four Library Science courses required for certification as "Provisional Librarian" in the public libraries of Pennsylvania.

Besides fulfilling the requirements for the particular program listed in this category, students are urged to consult with their department advisor.

## INDEPENDENT STUDY

Some programs of study provide students the opportunity of completing an Independent Study and/or Internship. Requirements for these opportunities are listed below:

1. The student must have a minimum of 12 s.h. in the discipline of the independent study.
2. The student must have a minimum Q.P.A. of 2.5 overall and in the major.
3. The student, in conjunction with the faculty member who is supervising the independent study, must prepare a project outline describing
  - a. the topic of the independent study;
  - b. methodology/plan of action;
  - c. equipment/resources needed;
  - d. products expected of the student (e.g., paper, video, oral presentation);
  - e. methods of evaluation.

This outline must be submitted to the department chair and Dean of Liberal Arts and Sciences along with the current registration form.

4. Individual departments may set requirements beyond these standards.

## INTERNSHIP

The minimum Q.P.A. for a required or elective internship shall be good academic standing and either 2.0 overall or 2.5 in the major; however, departments may establish a higher Q.P.A. requirement for either required or elective internships. Junior/Senior level status is required.

## MINOR PROGRAMS

Students in the College of Liberal Arts and Sciences may pursue a minor or minors in addition to their declared major. Minor programs require the completion of a specific sequence of courses as prescribed by the academic department offering the minor and usually require 18-21 credit hours of course work. At least three courses of study in the minor must be upper division. In order to have a minor or minors officially recorded, students must complete the following requirements:

1. officially declare the minor(s) in the office of the department chairperson administering the minor program;
2. successfully complete all the course requirements prescribed for the minor;
3. maintain a quality point average of at least a 2.0 in the minor.

The minors listed below are acceptable for students graduating with a Liberal Arts and Sciences degree. All these minors are administered by the College of Liberal Arts and Sciences with the following exceptions: Music, Speech Communication and Theatre are administered by the College of Visual and Performing Arts, Dance is administered by the College of Education and Advertising is administered by the College of Business.

Advertising  
 Anthropology  
 Biology  
 Chemistry  
 Computer Info. Science  
 Criminal Justice  
 Dance  
 English Literature  
 English/Writing  
 French  
 Geography  
 Geology  
 German  
 History  
 International Studies  
 Marine Science  
 Mathematics  
 Music  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Public Administration  
 Public Relations  
 Russian  
 Social Work  
 Sociology  
 Spanish  
 Speech Communication  
 Telecommunications  
 Theatre  
 Women's Studies

## BACHELOR OF ARTS

### ANTHROPOLOGY

- A. General Education** 60 s.h.
- B. Major Program** 38 s.h.
- Required Courses: 20 s.h.**  
 ANT 010, 020, 021, 030, 031, 320  
 or 335, 360, 380.
  - Elective Courses: 18 s.h.**  
 ANT 101, 102, 115, 125, 130, 135,  
 150, 171, 180, 210, 215, 230, 240,  
 250, 254, 258, 272, 273, 274, 285,  
 290, 320, 370, 379, 390, 391 and  
 ANT/HIS 437

- C. Concomitant Courses** 12 s.h.  
 Concomitant Courses will vary depending upon the anthropological area of concentration selected by the student. The student is expected to meet with his/her advisor in the Sophomore year to work out a program of concentration and concomitant courses.

- D. Free Electives** 18 s.h.  
 To be chosen with departmental advisement, subject to regulations contained in the Advisory Guide and in this Undergraduate Bulletin.

- E.** All students are required to complete successfully a comprehensive examination in the major.

\* Areas of concentration include but are not limited to Applied Anthropology, Archaeology, Area Studies, Cultural Anthropology, General Anthropology and Physical Anthropology.

### ENGLISH: English General Program

- A. General Education** 60 s.h.
- B. Major Program** 42 s.h.
- Required Courses: 15 s.h.**  
 ENG 100 should be taken first;  
 103, 113, 379, 380.
  - Elective courses: 27 s.h.**  
 to be chosen with advisement from the following: **Five of the courses must be at the 300 level or higher.**  
 ENG 101, 102, 104, 111, 114, 121, 122, 123, 124, 125, 141; ENG 220, 225, 230, 236, 237, 240, 270, 275, 276, 277, 282; ENG 321, 325, 327, 328, 330, 331, 332; ENG/SPE 335; ENG 337, 338, 340, 343, 344, 350, 351, 352, 353, 355, 360, 363, 364, 365, 367, 370, 371, 438, 455, 457, 460, 470, 493.

- C. Concomitant Courses** 12 s.h.  
 Any course at the 100 level or above in any of the following disciplines qualifies as a concomitant: Anthropology, Art History, French, German, History, Music History, Philosophy, Professional Writing, Psychology, Related Arts, Russian, Sociology, Spanish, Speech, Theatre.

- D. Electives** 14 s.h.  
 Electives may be taken in any discipline whose courses are acceptable as electives in the College of Liberal Arts and Sciences. Courses must be at the 100 level or above.
- E.** Successful completion of a written comprehensive examination is required.

### ENGLISH: Professional Writing Program

- A. General Education** 60 s.h.
- B. Major Program** 38 - 39 s.h.
- Prerequisite Core: 12 s.h.**  
 A minimum of a 2.5 QPA must be earned in the courses of the Prerequisite Core before a student may go on to the courses in Category III.  
 ENG 230; WRI 211; 205 or 207; 208 or 214.
  - Theory and Criticism: 5 - 6 s.h.**  
 WRI 212, 219, 308; TVR 220
  - Advanced Core: 9 - 12 s.h.**  
 Students must achieve a 2.5 QPA in four Prerequisite courses before taking any of the following:
    - Required courses**  
 WRI 381, 390
    - Optional courses**  
 (choose ONE): WRI 303, 306, 307
  - Major Electives: 9 - 12 s.h.**  
 If WRI 390 equals 3 s.h.; 12 s.h. are required. If WRI 390 equals 6 s.h.; 9 s.h. are required. **At least 6 s.h. must be at the 300 level.**



WRI 020, 205, 207, 208, 210, 214,  
216, 219, 226, 241, 303, 304, 305,  
306, 307, 308, 310, 311, 312, 313;  
WRI/SPE 212, 336; TVR 160.

- C. **Concomitant Courses** 9 s.h.  
May be chosen from ENG listings  
at the 100 level or above.

- D. **Electives** 21 s.h.

1. **Concentration: 12 s.h.**

All 12 s.h. must be taken in a  
single discipline other than WRI  
and must be acceptable toward  
a Liberal Arts and Sciences  
degree. All courses in the  
College of Liberal Arts and  
Sciences and Business may be  
used. Students are encouraged  
to complete the requirements  
for a Minor. Available minors are  
listed in the undergraduate  
advisement bulletins, but  
students should also consult  
with their advisors in choosing  
disciplines most apt to produce  
writing specialties for them.  
Courses must be taken at the  
100 level or above unless they  
are required to complete a minor.

- E. Successful completion of a written  
comprehensive examination is  
required.

## FRENCH

*See Foreign Language Placement  
Policy under Academic Regulations,  
page 22.*

- A. **General Education** 60 s.h.

- B. **Major Programs** 33 - 45 s.h.

1. **Required Courses: 15 - 21 s.h.**

FRE 021, 022, 130, 210, 325, 326,  
FLA 380

2. **Elective Courses: 12 - 24 s.h.**

To be chosen with departmental  
advisement from the following:  
FLA 220, FRE 023, 220, 224, 301,  
302, 305, 320, 340, 341, 345, 351,  
352, 370.

- C. **Concomitant Courses** 12 s.h.

From the following Humanities and  
Social Sciences and/or from courses  
in a foreign language other than  
French.

ARH 024; ENG 101, 102, 353, 355, 363,  
365, HIS 111, 112, 235, 335.

- D. **Free Electives** 18 - 23 s.h.

To be chosen with departmental  
advisement, subject to regulations  
contained in the Advisory Guide  
and in this Undergraduate Bulletin.

- E. Successful completion of a  
comprehensive examination is  
required.

## GENERAL STUDIES

Admission to this program is by  
approval of the General Studies  
Committee.

- A. **General Education** 60 s.h.

- B. **Major Program** 50 s.h.

Courses are to be chosen with  
advisement from the General  
Studies Committee. Twenty  
semester hours must be in a single  
discipline chosen from Humanities,  
Social Sciences, Natural Sciences  
or Mathematics.

- C. **Free Electives** 18 s.h.

To be chosen with advisement from  
the General Studies Committee  
subject to regulations contained in  
the Advisory Guide and in this  
Undergraduate University Bulletin.

- D. Successful completion of a  
comprehensive examination.

## GEOGRAPHY

- A. **General Education** 60 s.h.

- B. **Major Program** 45 s.h.

1. **Required Courses: 15 s.h.**

GEG 010, 020, 330, 375, 380

2. **Required Categories: 12 s.h.**

Economic Geography - 3 s.h.  
Physical Geography - 3 s.h.  
Cultural Geography - 3 s.h.  
Geography Elective - 3 s.h.

3. **Geography Tracks**

Students will elect to pursue one  
of the following areas of  
concentration.

a. **General Track: 18 s.h.**

Regional Geography - 3 s.h.  
Economic Geography - 3 s.h.  
Physical Geography - 3 s.h.  
Cultural Geography - 3 s.h.  
Techniques Course - 3 s.h.  
Geography Elective - 3 s.h.

b. **Applied Track: 18 s.h.**

GEG 394: Internship - 3 s.h.  
Select 5 courses from the  
following list:  
GEG 170, 230, 274, 332, 341,  
343, 345/346, 347, 394

c. **Environmental Track: 18 s.h.**

Courses required: GEG 170,  
210, 320/321, 324, 341 & 394.

- C. **Concomitant Courses** 12 s.h.

Any departure from the following  
lists must be approved by a majority  
of the Geography Faculty.

1. **General Track**

ANT 101, 102, 150, 171, 180, 210,  
250; BIO 104, 105; CIS 354, 255;  
CIS/MAT 112, 135; CRJ/SOC 110;  
ECO 150, 201, 270, 360; EGR 121;  
ENG 123, 230; ENV/GEL 210/211;  
FRE 340, 341; GEL 110/111, 302;  
GER 340; HIS 131, 132, 160, 211,  
212, 222, 315, 317, 338, 340, 342,  
351-352, 355, 356, 361, 423, 453,  
462; INT 101, 111, 201; LIB 018;  
MAT 140, 230, 271, 272, 273;  
PHI 015, 240, 330; POL 020, 131,  
250, 253; POL/PSY/SOC 200;  
PSY 240, 255; RUS 340; SOC 230,

240, 246, 310, 350; SPA 340, 345;  
SPE 205, 210; WRI 205 & 211.

2. Applied Track

ANT/PSY 320; BIO 104/105, 106/  
107, 108/109, 130, 224/225, 242/  
243, 290/291, 322/323, 332/333;  
BIO/ENV 222/223; BIO/MAR 226/  
227; CHM 214/215, 216/217;  
CIS 270, 335, 354, 355; CIS/MAT  
112, 135, 136; ECO 011, 012, 201,  
205, 210, 345; ENG 230; ENV/CHM  
220/221; ENV/GEL 210/211;  
GEL 100/101, 102/103, 200/201,  
230/231; GEL/MAR 237/238,  
366/367; LIB 018; MAR 250/251;  
MAT 140, 230, 271, 272, 273;  
PHI 015, 240, 330; PHY 030/031;  
POL 225; POL/PSY/SOC 200;  
PSY 201, 255; SOC 230, 240, 310,  
350; SPE 205, 210; WRI 205 & 211.

\* Students may receive credit for only  
MAT 140 OR PSY 200, not credit for  
both.

**NOTE:** Every Geography major must  
take one of above two courses –  
if this requirement has not been  
met through General Education  
courses or electives, then one  
of these courses must be taken  
as a concomitant course.

**D. Free Electives 12 s.h.**

To be chosen with departmental  
advisement, subject to regulations  
contained in the Advisory Guide  
and in the Undergraduate University  
Bulletin.

**E. Successful completion of a  
comprehensive examination is  
required.**

## GERMAN

(See Foreign Language Placement  
Policy under **Academic Regulations**,  
page 22.)

**A. General Education 60 s.h.**

**B. Major Program 33 - 45 s.h.**

**1. Required Courses: 15 - 21 s.h.**

a. Inter Courses: 3 – 6 s.h.

GER 021, 022

b. Advanced Courses: 15 s.h.

GER 211, 212, 325, 326, FLA 380

**2. Elective Courses: 12 - 24 s.h.**

To be chosen with departmental  
advisement from the following:

GER 023, 213 or FLA 220, 301, 302,  
311, 312, 313, 320, 335, 340,  
351, 352, 370

**C. Concomitant Courses 12 s.h.**

From the following Humanities and  
Social Sciences and/or from courses  
in a foreign language other than  
German: ARH 024; ENG 103, 104, 113,  
114, 363, 365; HIS 111, 112, 335.

**D. Free Electives 18 - 23 s.h.**

To be chosen with departmental  
advisement subject to regulations  
contained in the Advisory Guide  
and in this Undergraduate Bulletin.

**E. Successful completion of a  
comprehensive examination is  
required.**

## HISTORY

The History Department offers studies  
in European and American History  
leading to the Bachelor of Arts degree.\*

**A. General Education 60 s.h.**

**B. Major Program 38 s.h.**

1. Survey Courses: 12 s.h.

HIS 014, 015, 025, 026

2. Readings in History – 3 s.h.

3. Senior Seminar – 3 s.h.

4. Non-western History  
(e.g. Near Eastern, Asian, African  
or Latin American) – 3 s.h.

5. American History Electives – 6 s.h.

6. European History Electives – 6 s.h.

7. Other History Electives – 6 s.h.

(3 s.h. must be in the major field)

**C. Concomitant Courses 12 s.h.**

History majors must complete 12 s.h.  
of concomitant course work in the  
Liberal Arts and Sciences at the  
100 level or above. Courses  
selected should relate to the major  
program and must have the  
approval of the advisor.

**D. Free Electives 18 s.h.**

To be chosen with departmental  
advisement subject to regulations  
contained in the Advisory Guide  
and in this Undergraduate Bulletin.

**E. Successful completion of a  
comprehensive examination is  
required for graduation.**

\* The degree will enable students to  
develop skills needed to pursue  
careers in law, teaching and  
education, private non-profit  
organizations, public agencies and  
business.

## MATHEMATICS (B.A.)

- A. **General Education** 60 s.h.
- B. **Major Program** 42 s.h.
1. **Required courses: 27 s.h.**  
MAT 224, 260, 271, 272, 273, 274, 311, 351, 380
  2. **Elective Courses: 15 s.h.**  
To be chosen with departmental advisement from the following:  
MAT 240, 301, 302, 312, 330, 332, 340, 352, 361, 370, 431
- C. **Concomitant Courses** 17 s.h.  
CIS 135; CIS 136; PHY 100, 101; PHY 102, 103; WRI 205
- D. **Arts & Sciences** 16 - 18 s.h.  
To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and this University Undergraduate Bulletin.
- E. Satisfactory completion of a mathematics comprehensive exam is a requirement for graduation.

## PHILOSOPHY

- A. **General Education** 60 s.h.
- B. **Major Program** 33 s.h.
1. **Required Courses: 12 s.h.**  
a. PHI 020, 065, 066, 380 12 s.h.
  2. **Elective Courses: 21 s.h.**  
At least 12 s.h. of PHI courses at the 100 to 300 level of which at least 9 s.h. must be at the 300 level or above.  
PHI 015, 020, 030, 040, 049, 050, 080, 110, 125, 130, 170, 202, 210, 230, 240, 241, 245, 260, 265, 280, 305, 310, 330, 340, 345, 350, 355, 375, 379, 470.
- C. **Concomitant Courses** 15 s.h.  
To be chosen with departmental advisement from courses within the College of Liberal Arts and Sciences.

- D. **Free Electives** 21 s.h.  
To be chosen with departmental advisement, subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.
- E. Successful completion of a comprehensive examination is required.

## POLITICAL SCIENCE

- A. **General Education** 60 s.h.
- B. **Major Program** 39 s.h.
1. **Required Courses: 18 s.h.**  
POL 010, 020, 125, 130, 380, and 221 or 223, or 323.
  2. **Elective Courses: 21 s.h.**  
To be chosen with advisement from the following:  
POL 050, 131, 150, 200, 215, 220, 221, 223, 225, 230, 240, 250, 253, 258, 260, 305, 311, 312, 316, 320, 323, 325, 340, 345, 360, 361, 370, 371, 390, 425, 435, 465
- C. **Concomitant Courses** 9 s.h.
1. U.S. HIS (3 s.h. at 100 level or above)
  2. Non-U.S. HIS (3 s.h. at 100 level or above)
  3. ANT, ECO, PHI, PSY or SOC (100 level or above)

- D. **Free Electives** 21 s.h.  
To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.
- E. Successful completion of a comprehensive examination is required.

## PSYCHOLOGY (B.A.)

- A. **General Education** 60 s.h.
- B. **Major Program** 38 - 45 s.h.
1. **Required Courses: 18 s.h.**  
PSY 011, 200, 210, 270, 379, 380
  2. A minimum of one course from each of the following areas:  
Area 1: PSY 202, 240, 250  
Area 2: PSY 110, 120, 125  
Area 3: PSY 311, 340  
Area 4: PSY 312, 325
  3. **Psychology Electives: 8 - 15 s.h.**
- C. **Concomitant Courses** 18 s.h.  
At least 9 hours from ANT, CRJ, PHI 240, POL, SOC or SWK. Course selection must be approved a Psychology faculty advisor.
- D. **Free Electives** 12 s.h.  
To be chosen with advisement subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.
- E. Successful completion of a comprehensive examination is required.

## RUSSIAN

(See Foreign Language Placement Policy under **Academic Regulations**, page 22.)

- A. **General Education** 60 s.h.
- B. **Major Program** 33 - 45 s.h.
1. **Required Courses: 15 - 21 s.h.**
    - a. Inter Courses: 3 - 6 s.h.  
RUS 021, 022
    - b. Advanced Courses: 15 s.h.  
RUS 130, 210, 325, 326; FLA 380
  2. **Elective Courses: 12 - 24 s.h.**  
To be chosen with departmental advisement from the following:  
RUS 023, 220 or FLA 220, 301, 302, 320, 335, 340, 345, 351, 352, 370

**C. Concomitant Courses 12 s.h.**

From the following Humanities and Social Sciences and/or from courses in a foreign language other than Russian:  
ARH 024; ENG 103, 104, 363, 365;  
MUS 140; HIS 111, 112, 211, 212;  
POL 360

**D. Free Electives 18 s.h.**

To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.

E. Successful completion of a comprehensive examination is required.

## SOCIAL WORK

*(Accredited by the Council on Social Work Education)*

The principal educational objective of this program is the preparation of students for beginning social work practice. The program is accredited by the Council on Social Work Education.

**A. General Education 60 s.h.**

**B. Major Program 48 s.h.**

**1. Required Courses: 39 s.h.**

SWK 100, 130, 160, 200, 250, 255, 265, 280, 360, 381, 382, 383, 384

**2. Elective Courses: 9 s.h.**

SWK 290, 315, 320, 328, 370, 371, 372, 373, 374, 375, 376, 377, 378, NUR/SWK 320, 379

**C. Concomitant Courses 12 s.h.**

The following subject areas and specific courses are highly recommended because of their relevancy to the theory and practice of social work. However, other courses in the subject areas which are of special interest to the student may be selected with the approval of the advisor:

ANT 010, 125, 130, 254, ANT/PSY 290; BIO 130, 140; CRJ 150, 180; ECO 301; GEG 310, 311, 338; HIS 140, 145, 150, 340, 342; MAT 112, 135; MIC 010; PHI 020, 030, 040, 240; POL 010, 050, 215, 225; PSY 110, 120, 200, 240, 250; SOC 110, 120, 128, 140, 140, 245, 250, 255.

**D. Free Electives 9 s.h.**

To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.

E. Comprehensive examination  
Social Work majors must successfully complete a written comprehensive examination as a condition for graduation. This examination is given in two parts — the first in Fall, the second in Spring.

## SOCIOLOGY

**A. General Education 60 s.h.**

**B. Major Program 39 - 45 s.h.**

All Sociology majors must take a minimum of 39 semester hours of course work in Sociology. However, a maximum of 45 semester hours in sociology could be counted toward overall degree requirements.

**1. Areas 1 & 2:**

**Theory and Methods 18 - 24 s.h.**

SOC 010 Principles of Sociology 3  
SOC 200 Statistics 3  
SOC 310 Foundation of Sociology Theory 3  
SOC 350 Methods of Social Research 3  
SOC 380 Senior Seminar in Sociology 3

*Select at least one additional course from the following:*

SOC 260 Social Stratification 3  
SOC 270 Complex Organization 3  
SOC 275 Social Foundation of Behavior 3

**2. Area 3: Electives: 15 - 21 s.h.**  
*(At least 9 semester hours must be at 200 level or above.)*

SOC 110 Contemporary Social Problems 3  
SOC 120 Marriage & The Family 3  
SOC 122 Intimate Relations 3  
SOC 128 Domestic Conflicts 3  
SOC/ANT 130 Marriage & The Family Cross-Cultural 3  
SOC 140 Racial & Ethnic Minorities 3  
SOC 150 Law and Society 3  
SOC 180 Sociology of Leisure 3  
SOC 210 Religion & Contemporary Society 3  
SOC 220 Juvenile Delinquency 3  
SOC 230 Urban Sociology 3  
SOC 235 Sociology of Sex Roles 3  
SOC 240 Population Problems 3  
SOC 245 Sociology of Deviance 3  
SOC 246 Third World Development 3  
SOC 250 Criminology 3  
SOC 255 Treatment of Offenders 3  
SOC 280 Collective Behavior 3  
SOC 290 Social Gerontology & Social Welfare 3  
SOC 370 Selected Topics (this area) 3  
SOC 390 Internship in Sociology 3  
SOC 450 Sociology of Education 3

**C. Concomitant Courses 21 s.h.**

The student will be encouraged to use the 21 s.h. allocated to this section to (1) minor in another field; (2) concentrate in one or two different academic fields, according to the student's career interests; or, (3) pursue some other general plan of study. All the above options must be worked out in consultation with the advisor.

**D. Free Electives 9 s.h.**

(100 level and above in Liberal Arts and Sciences)

To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.

E. Successful completion of a comprehensive examination is required.

## SPANISH

(See Foreign Language Placement Policy under **Academic Regulations**, Page 22. The rationale for these placements is that the policy, as stated, only affects the Spanish program and courses.)

**A. General Education 60 s.h.**

**B. Major Program 39 - 42 s.h.**

**1. Required Courses: 18 s.h.**

a. Advanced Courses: 18 s.h.  
SPA 211, 212, 325, 326, 370 & 380

**2. Elective Courses: 21 - 24 s.h.**

To be chosen with departmental advisement from the following:  
SPA 220 or 290, 301, 302, 311, 312, 320, 330, 340, 341, 345, 346, 347, 350, 355, 370, 390.

**C. Concomitant Courses 12 s.h.**

Humanities and Social Sciences and/or from courses in a Foreign Language other than Spanish:  
ENG 103, 104; ANT 102; GEL 150; HIS 111, 131, 132

**D. Free Electives 15 - 18 s.h.**

To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate Bulletin.

E. Successful completion of a comprehensive examination is required.

## BACHELOR OF SCIENCE

### General Education Program

**1. Basic Requirements: 9 or 10 s.h.**

A. Composition – 3 s.h.  
B. Oral Communication – 3 s.h.\*  
C. Health\*\* – 2 or 3 s.h.  
D. Physical Education\*\*\* – 1 s.h.

**2. Humanities: 12 s.h.**

A. Literature – 3 s.h.  
B. Music\*\*\*\* Speech or Theatre – 3 s.h.  
C. Art History\*\*\*\*\* or Philosophy or Related Arts 105 – 3 s.h.  
D. Elective in any Humanities discipline in this group and courses designated International Studies – 3 s.h. (including foreign language)

**3. Social Sciences: 12 s.h.**

A. History or Political Science – 3 s.h.  
B. Sociology, Anthropology or Psychology – 3 s.h.  
C. Geography or Economics – 3 s.h.  
D. Elective in any Social Sciences discipline listed in this group and courses designated International Studies – 3 s.h.

**4. Natural Sciences and Mathematics: 12 s.h.**

A. Mathematics or Computer Information Science\*\*\*\*\* – 3 s.h.  
B. Biological Science with a laboratory – 3 s.h.  
C. Physical Science with a laboratory – 3 s.h.  
D. Elective in any Natural Sciences discipline or in Mathematics – 3 s.h.

**5. General Education Electives: 15 s.h.**

Courses may be elected in any one of, or any combination of, the disciplines listed under sections 1 through 4, with the exception of certain Physical Education Courses. No more than 44 semester hours in any one discipline may be counted toward graduation requirements.

**6. Comprehensive Examination**

\* SPE 010 fulfills the oral communication requirement.

\*\* Health is not required for the B.S.N. degree.

\*\*\* One semester hour will be granted only upon completion of both Physical Education I and II.

\*\*\*\* Up to six semester hours of credit in Applied Music may be taken under category 5 of General Education.

\*\*\*\*\* Up to nine semester hours of credit in Studio Art may be taken under category 5 of General Education.

\*\*\*\*\* Only Computer Science courses with a dual MAT/CIS prefix will fulfill this category.

## PROGRAM OFFERINGS

Seventeen programs lead to the Bachelor of Science degree. Students enrolled in these programs must satisfy the General Education requirement for this degree and must complete 128 semester hours in accordance with all specifications. No more than 44 semester hours in any one discipline may be counted towards graduation requirements.

## MAJOR PROGRAMS

Major programs leading to the Bachelor of Science Degree are offered in the following disciplines:

Biology

Chemistry

Computer Information Science

Criminal Justice

Environmental Science: Biology  
Chemistry  
Geology

General Studies

Geology

Marine Sciences: Biology  
Chemistry  
Geology  
Physics

Mathematics

Medical Technology

Nursing (Upper Division for RN's)

Physics

Psychology

Public Administration

Telecommunications

## BIOLOGY

A. General Education 60 s.h.

B. Major Program 44 s.h.

1. Core Courses: 12 s.h.

BIO 104, 105, 106, 107, 108 109.

2. Discrete Track Courses: 32 s.h.

Includes 12 s.h. electives

(Select ONE track)

a. Organismal Biology

BIO 224, 225, 230, 231, or

232, 233, 302, 303 or 316, 317 or

334, 335, 210, 211 or 234, 235 or

264, 265, 242, 243 or 312, 313,  
322, 323 or 326, 327 or 332, 333,  
310, 311, 346, 347 or 350, 351,  
380.

b. Premedicine/Predentistry

BIO 224, 225, 234, 235, 264,

265, 310, 311, 318, 319 or 330,

331, 336, 337, 350, 351, 380.

c. Ecology

BIO 224, 225, 230, 231, 242,

243, 302, 303 or 316, 317, 310,

311, 322, 323 or 326, 327 or

332, 333, 380.

d. Cell Biology/Microbiology

BIO 224, 225, 232, 233 or 234,

235, 306, 307, 310, 311, 336,

337, 346, 347, 350, 351, 380.

C. Concomitant Courses 33 - 37 s.h.

1. Chemistry: 16 s.h.

CHM 100, 101, 102, 103, 214, 215,

216, 217.

2. Physics: 8 s.h.

PHY 040, 041 or 100, 101; 042, 043

or 102, 103.

3. Restricted Elective: 3 - 4 s.h.

CHM 310, 311 or ENG/WRI 205 or

GEL 100, 101 or MAT 112 or

MAT 135.

4. Mathematics: 6 - 9 s.h.

MAT 105, 106, 140 or 230; OR

MAT 105, 106, 271; OR MAT 115,

140 or 230; OR MAT 115, 271 OR

MAT 271, 272.

D. Arts and Sciences

Electives

2 - 5 s.h.

Courses may be elected in any

discipline (except biology) under

Liberal Arts and Sciences.

E. Successful completion of a  
comprehensive examination is  
required.

## CHEMISTRY (B.S. Degree)

A. General Education 60 - 63 s.h.\*

B. Major Program 44 s.h.\*\*

1. Required Courses: 38 s.h.

CHM 100-101, 102-103, 214-215,

216-217, 230-231, 314-315,

316-317, 320-321, 340-341, 380.

2. Elective Courses: 6 s.h.

From the following courses:

CHM 310-311, 312, 322-323,

326, 330-331, 336, 346-347, 350, 370,

390.

C. Concomitant Courses 24 s.h.\*\*

PHY 100-101, 102-103; MAT 271,

272, 273, 274 and BIO 104.

D. Arts and Sciences

Electives

16 s.h.\*\*

Courses may be elected in any  
discipline under Liberal Arts and  
Sciences. No CHM courses.

E. Successful completion of a  
comprehensive examination is  
required.

\* Foreign Languages: Chemistry  
majors must have a reading  
knowledge of a foreign  
language at the intermediate  
level. Courses may be elected  
under Section V of General  
Education or under Arts and  
Sciences Electives.

\*\* Appropriate courses in mathe-  
matics, physics, and chemistry  
apply towards the requirements  
under Section 4 and/or Section 5  
of General Education.

## CHEMISTRY BIOCHEMISTRY OPTION

A. General Education 60 – 62 s.h.\*

B. Major Program 44 s.h.\*\*

1. **Required Courses:**

CHM 100-101, 102-103, 214-215,  
216-217, 310-311, 312, 318, 314-315,  
316-317, 320-321, 340-341, 380.

C. Concomitant Courses 40 s.h.\*\*

PHY 100-101; 102-103; MAT 271, 272,  
273, 274, 230; BIO 104-105, 106-107  
or 108-109, 232-233 or 234-235 or  
310-311, 350-351.

D. Arts and Sciences  
Electives 0 – 4 s.h.\*\*  
No CHM courses.

E. Successful completion of a  
comprehensive examination is  
required.

\* Foreign Languages: Chemistry  
majors must have a reading  
knowledge of a foreign language  
at the intermediate level. Courses  
may be elected under Section V  
of General Education or under  
Arts and Sciences Electives.

\*\* Appropriate courses in mathe-  
matics, physics, and chemistry  
apply towards the requirements  
under Section IV and/or Section  
V of General Education.

## COMPUTER AND INFORMATION SCIENCE

A. General Education 60 s.h.

B. Computer and Information Science:  
45 s.h.

1. **Required Courses:**

18 s.h. (for students concen-  
trating in Business)  
CIS 135, 136, 235, 310, 335, 354.

18 s.h. (for students concen-  
trating in Mathematics)  
CIS 135, 136, 235, 310, 335,  
354.

2. **Electives:**

Courses to be chosen from  
the following:

27 s.h.: for students  
concentrating in Business

27 s.h. for students concentrating  
in Mathematics

Both classifications need to pick  
at least two from CIS 336, 343,  
361, 362.

Others are CIS 236, 301, 315, 326,  
347, 348, 355, 356, 378, 379, 411

3. **Concomitant Courses  
(Business) 18 s.h. - 21 s.h.**

MAT 121 or 260; MAT 221 or  
(MAT 271 and 272); MAT 140 or  
230 or 301; MAT 224, MAT 225,  
and,

a. for Business Concentration  
Students: MAT 121 or 260,  
MAT 221 or both MAT 271  
and 272; MAT 140 or 230 or  
301 or 361; MAT 224, MAT  
225 and WRI 207.

b. Mathematics (11 s.h.):  
for Mathematics Concentra-  
tion Students: PHY 100, 101,  
102 and 103; WRI 205 or 207.

4. Concentration in Business or  
Mathematics

a. Business (21 s.h.): ECO 011  
and 012, ACC 121 and 122;  
MGM 300, MKT 310, and one  
of ACC 303, ACC 305 or FIN 350

b. Mathematics (24 s.h.):  
MAT 224, 225, 230, 260, 271,  
272, 273, 332

5. **CIS Internships (optional)**

CIS internships, CIS 280 (6 s.h.)  
and CIS 380 (6 s.h.), may be  
available to qualified students,  
but these are not required for  
completion of the CIS major  
program. Information about  
internships can be obtained in  
the Mathematics/Computer  
Science Department office.

6. **Arts and Sciences Electives:**

To be chosen with departmental  
advisement, subject to regulations  
in the Advisory Guide and the  
University Undergraduate  
Bulletin.

7. Students will be expected to  
meet the comprehensive  
requirement by presenting an  
in-depth report/paper/project.  
The presentation would include  
a formal written document and  
an oral presentation open to the  
public. This report/paper/project  
would be a significant part of  
any CIS 300 or higher-level  
course taken by the student and  
must be undertaken with the  
consent and under the super-  
vision of the course instructor.  
This requirement should be  
scheduled with the instructor  
by the end of the semester  
preceding the one in which the  
student expects to graduate.  
In the event a student cannot  
find an advisor, the chair would  
work to assign a student based  
on his/her background and the  
faculty advisement workload.

## CRIMINAL JUSTICE

A. General Education 60 s.h.\*

B. Major Program 42 s.h.

At least half of the 42 s.h. must be  
in 100 level courses or higher

1. **Required Courses: 15 s.h.**  
CRJ 010, 150, 180, 250, 380.

2. **Electives: 27 s.h.**

To be chosen from the following  
with at least one course in each  
group.

Group A: CRJ 260, 312, 340

Group B: CRJ 110, 220, 245

Group C: CRJ 210, 221, 255, 370,  
379, 390, 391

Group D: CRJ 360, 361

**C. Concomitant Courses 15 s.h.**

Courses to be chosen from the following disciplines, with no more than 9 s.h. in any single discipline (courses must be at 100 level or above): Anthropology, Business, Economics, History, Philosophy, Political Science, Psychology, Social Work, Sociology.

**D. Free Electives 12 s.h.**

Courses in Liberal Arts and Sciences numbered 100 and above chosen with advisement subject to regulations in the Advisory Guide and in this Undergraduate University Bulletin.

**E. Comprehensive Examination**

Criminal Justice majors must successfully complete a written comprehensive examination as a condition for graduation. This examination is given Fall and Spring.

\* Foreign Languages: Criminal Justice majors must have a reading knowledge of a foreign language equivalent to the intermediate level.

## ENVIRONMENTAL SCIENCE

**A. General Education 60 – 62 s.h.**

**B. Core Courses 15 s.h.**  
BIO 104-105; CHM 100-101; ENV 100-101, GEL 100-101

(Students must complete all four Core courses prior to declaration of a discrete track.)

**Biology Track**

**A. Common Courses 44 s.h.**  
BIO 106-107, 108-109; CHM 102-103, 214-215; ENV 210-211, 220-221, 222-223, 380; MAT 106 or 115 or 271, 140 or 230, 112 or 135; PHY 040-041 or 100-010, 042-043 or 102-103.

**B. Environmental Biology Track 18 s.h.**  
BIO 230-231 or 232-233 or 236-237; ENV 224-225; BIO 322-323 or 332-333; BIO 302-303 or 316-317; BIO Electives (300 level or above) — 6 s.h.

**C. Restricted Social Science & Humanities Electives 6 s.h.**

(These two courses will be elected from a list maintained by the Environmental Science Committee.)

**D. Successful completion of a comprehensive examination is required.**

**Chemistry Track**

**A. Common Courses 40 s.h.**  
BIO 106-107 or 108-109; CHM 102-103, 214-215; ENV 210-211, 220-221, 222-223, 380; MAT 271, 140 or 230, 112 or 135; PHY 100-010, 102-103.

**B. Environmental Chemistry Track 21 s.h.**  
CHM 216-217; CHM 230-231; CHM Electives (300 level) — 10 s.h.; MAT Elective (above MAT 271) — 3 s.h.

**C. Restricted Social Science & Humanities Electives 6 s.h.**  
(These two courses will be elected from a list maintained by the Environmental Science Committee.)

**D. Successful completion of a comprehensive examination is required.**

**Geology Track**

**A. Common Courses 40 s.h.**  
BIO 106-107 or 108-109; CHM 102-103, 214-215; ENV 210-211, 220-221, 222-223, 380; MAT 115 or 271, 140 or 230, 112 or 135; PHY 040-041 or 100-010, 042-043 or 102-103.

**B. Environmental Geology Track 22 s.h.**  
GEL 102-103; 200-201; 304-305; 358-359; 362-363; GEL Electives — 6 s.h.

**C. Restricted Social Science & Humanities Electives 6 s.h.**  
(These two courses will be elected from a list maintained by the Environmental Science Committee.)

**D. Successful completion of a comprehensive examination is required.**

Students must complete all four core courses with at least a 2.00 average in the core courses prior to declaration of a discrete track.

## GENERAL STUDIES

**A. General Education 60 s.h.**

**B. Major Program**  
Courses are to be chosen with advisement from the General Studies Committee and the Dean of Liberal Arts and Sciences. Twenty of the semester hours must be in a single discipline chosen from the Humanities, Social Sciences, Natural Sciences, or Mathematics.

**C. Free Electives 18 s.h.**  
To be chosen with advisement from the General Studies Committee and the Dean of Liberal Arts and Sciences subject to regulations contained in the Advisory Guide and in this Undergraduate University Bulletin.

**D. Successful completion of comprehensive examination.**

## GEOLOGY

**A. General Education 60 s.h.**

**B. Major Program 44 s.h.**

- 1. Required Courses: 41 s.h.**  
GEL 100-101, 102-103, 200-201, 220-221, 230-231, 304-305, 314-315, 320-321 340-341, 350-351, 358-359, 362-363, 380
- 2. Elective Courses: 24 s.h.**  
GEL 210-211, 324-325, 366-367, 370, 390, 398



**C. Concomitant Courses 27 - 31 s.h.**

**Chemistry:** CHM 100-101, 103-103

**Math:** Option 1 – MAT 105, 106, 271

Option 2 – MAT 115, 271

Option 3 – MAT 271, 272

**Physics:** PHY 040-041 OR

PHY 100-101

PHY 042-043 OR

PHY 102-103

**Statistics:** MAT 140 OR 230 OR

PSY 200

**Computer Information Science:**

CIS 112 OR 135

**D. Arts and Sciences Electives 9 s.h.**

To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate Bulletin.

- E. Successful completion of a comprehensive examination is required.

## MARINE SCIENCE

**A. General Education 60 - 62 s.h.**

**B. Major Program**

**1. Core Courses: 15 s.h.**

Students must complete all four core courses with at least a 2.00 average prior to declaration of a discrete track.

BIO 104-105; CHM 100-101;

GEL 100-101; MAR 110-111

**2. Select ONE track**

**Biology**

**a. Common Courses: 52 s.h.**

BIO 106-107; BIO 108-109;

CHM 102-103; CIS 112 OR 135;

GEG 320 OR 347 OR 274;

MAR 226-227; MAR 331-332

OR MAR 364, MAR 366-367;

MAR 370; MAR 380; MAT 140

OR MAT 230 OR PSY 200;

MAT 271; PHY 040-041 OR

PHY 100-101; PHY 042-043 OR

PHY 102-103; MAR 237;

& 6 s.h. of MAR OR BIO

Electives.

**b. Track Courses: 22 s.h.**

BIO 310-311; ENV/BIO 224-

225; CHM 214-215; ENV/CHM

220-221; MAR 221-222 OR

BIO 264-265 OR BIO 316-317

OR MAR 343-344; MAR 325-

327 OR BIO 332-333 OR

BIO 322-323; BIO 346-347 OR

BIO 350-351.

- c. Courses in the above categories may be used to satisfy the minimum of 9 s.h. that must be taken at The Marine Science Consortium, Wallops Island, Virginia.

**Chemistry**

**a. Common Courses: 48 s.h.**

BIO 106-107 OR BIO 108-109;

CHM 102-103; CIS 112 OR 135;

GEG 320 OR 347 OR 274;

MAR 226-227; MAR 366-367;

MAR 370; MAR 380; MAT 271;

MAT 140 OR MAT 230 OR

PSY 200; PHY 100-101;

PHY 102-103; MAR 237;

& 6 s.h. of MAR OR CHM Electives.

**b. Track Courses: 25 s.h.**

CHM 214-214; CHM 216-217;

CHM 230-231; CHM 340-341;

CHM elective; MAR 331-332,

MAT 272.

- c. Courses in the above categories may be used to satisfy the minimum of 9 s.h. that must be taken at The Marine Science Consortium, Wallops Island, Virginia.

**Geology**

**a. Common Courses: 51 s.h.**

BIO 106-107 OR BIO 108-109;

CHM 102-103; CIS 112 OR 135;

GEG 320 OR 347 OR 274;

MAR 226-227; MAR 331-332

OR MAR 364; MAR 366-367;

MAR 370; MAR 380; MAT 140

OR MAT 230 OR PSY 200;

MAT 271; PHY 040-041 OR

PHY 100-101; PHY 042-043 OR

PHY 102-103; MAR 237;

& 6 s.h. of MAR OR GEL Electives.

**b. Track Courses: 24 s.h.**

GEL 102-103; GEL 220-221;

GEL 230-231; GEL/MAR 350-

351; GEL/MAR 358-359;

CHM 214-215; ENV/CHM 220-

221.

- c. Courses in the above categories may be used to satisfy the minimum of 9 s.h. that must be taken at The Marine Science Consortium, Wallops Island, Virginia.

**Physics**

**a. Common Courses: 52 s.h.**

BIO 106-107 OR BIO 108-109;

CHM 102-103; CIS 112 OR 135;

GEG 320 OR 347 OR 274;

MAR 226-227; MAR 364,

MAR 366-367; MAR 370;

MAR 380; MAT 271; MAT 140

OR MAT 230 OR PSY 200;

PHY 100-101; PHY 102-103;

MAR 237; & 6 s.h. of MAR OR PHY Electives.

**b. Track Courses: 26 - 27 s.h.**

MAT 272; MAT 273; MAT 340;

PHY 210 OR PHY 220-221;

PHY 230-231; PHY 312;

PHY 310-311; MAR/GEL 358-

359; PHY elective.

- c. Courses in the above categories may be used to satisfy the minimum of 9 s.h. that must be taken at The Marine Science Consortium, Wallops Island, Virginia.

- C. Successful completion of a comprehensive examination is required.

## MATHEMATICS (B.S.)

A. General Education 60 s.h.

B. Major Program\* 45 s.h.

1. **Required Courses: 24 s.h.**

MAT 271, 272, 273, 274, 224, 260,  
351, 380

2. One of the following tracks must be chosen:

**TRACK 1:** Statistics and Actuarial Science

a. **Required Courses: 15 s.h.**

MAT 301, 302, 332, 340, 361

b. **Electives: 6 s.h.**

MAT 205, 311, 312, 352,  
370, 431

c. **Concomitant Courses: 12 s.h.**

CIS 135, 136, one CIS elective at 200-level or above, with advisement, and WRI 205

**TRACK 2:** Applied Analysis in Management Sciences

a. **Required Courses: 15 s.h.**

MAT 225, 301, 302, 311, 361

b. **Electives: 6 s.h.**

MAT 205, 303, 332, 340, 352,  
370

c. **Concomitant Courses: 18 s.h.**

CIS 135, 136, 263, 345, one CIS elective at 200-level or above, with advisement, and WRI 205

**TRACK 3:** Pure Mathematics

a. **Required Courses: 15 s.h.**

MAT 311, 312, 330, 352, 431

b. **Electives: 6 s.h.**

MAT 240, 301, 302, 332, 340,  
370

c. **Concomitant Courses: 14 s.h.**

CIS 135; PHY 100, 101; PHY 102,  
103; WRI 205.

\* Appropriate courses in the sciences and mathematics apply towards the requirements under Section 4 and/or Section 5 of the General Education.

**NOTE:** It is strongly recommended that Mathematics majors in Track 3 have a reading knowledge of French, German or Russian equivalent to the intermediate level.

3. **Arts and Sciences**

**Electives: 11 - 18 s.h.**

to be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in the undergraduate bulletin.

4. Satisfactory Completion of a Mathematics comprehensive examination is a requirement for graduation.

## MEDICAL TECHNOLOGY

A. Six semesters at Kutztown University

1. **General Education: 60 - 62 hrs.**

2. **Biology: 23 s.h.**

Prescribed: BIO 104-105, 106-107, 224-225, 234-235, 310-311, 336-337 and Biology Elective.

3. **Concomitant Courses: 30 s.h.**

CHM 100-101; 102-103; 310-311 or PHY 042-043; CHM 214-215, 216-217, MAT 105 or MAT 115, MAT 140, PHY 040-041

B. **Clinical Education: 30 s.h.**

*(One calendar year at an affiliated hospital)*

1. It is the student's responsibility to apply for admission to the hospital program. Admission is on a competitive basis. Details of application procedures are available from the Coordinator of the Medical Technology Program.

2. MED 320; MED 330; MED 340; MED 350; MED 360; MED 370

## NURSING

*(Accredited by the National League for Nursing)*

A. General Education 60 - 61 s.h.

B. Major Program 67 - 68 s.h.

1. **Lower Division Nursing: 23 s.h.**

By challenge examinations or Pennsylvania Articulation Model.

2. **Upper Division Nursing: 28 s.h.**

NUR 299; 308/309; 310; 312-313; 320; 322-323, 332-333; 342-343; 370 or 371; and 375.

C. Concomitant Courses 16 - 18 s.h.

1. **Required: 6 - 7 s.h.**

PSY 200 or MAT 140; BIO 160/161 or BIO 224/225 or BIO 304/305.

2. **Controlled Concomitant Courses: 9 - 11 s.h.**

With the approval of the department, courses may be chosen from the disciplines of Accounting, Anthropology, Biology, Business, Chemistry, Economics, English, Geography, Math/Computer Science, Philosophy, Political Science, Psychology, Sociology, and Social Work.

D. Successful completion of a comprehensive examination is required.

## PHYSICS

- A. **General Education** 60 - 62 s.h.\*
- B. **Major Program** 45 s.h.\*\*
- Required Courses: 39 s.h.**  
PHY 100-101, 102-103, 110, 210, 220-221, 230-231, 312, 315, 316, 319, 360, 362 OR 364, 380
  - Elective Courses: 6 s.h.**  
From among the following courses:  
AST 140-141, 142-143, 240-241, 340-341, 350-351; EGR 121; GEL 358-359; PHY 310-311, 370.
- C. **Concomitant Courses** 26 s.h.  
CHM 100-101, 102-103  
MAT 260, 271, 272, 273, 274, 340.
- D. **Arts & Sciences Electives** 12 s.h.  
Courses may be elected in any discipline (except Physics) under Liberal Arts and Sciences.
- E. Successful completion of a Comprehensive Examination is required.

\* Physics majors must have a reading knowledge of a foreign language (French, German, Russian or Spanish) equivalent to the intermediate level or a minimum of 6 s.h. in courses in Computer and Information Sciences above the level of CIS/MAT 112. Courses may be elected under Section V of General Education or under Arts and Sciences Electives.

\*\* Appropriate courses in mathematics, physics and chemistry apply towards the requirements under Section 4 and/or Section 5 of General Education.

## PSYCHOLOGY (B.S.)

- A. **General Education** 60 s.h.
- B. **Major Program** 45 s.h.
- Required Courses: 18 s.h.**  
PSY 011, 200, 210, 270, 379, 380
  - A minimum of one course from each area: 12 s.h.  
Area 1: PSY 202, 240, 250  
Area 2: PSY 110, 120, 125  
Area 3: PSY 311, 340  
Area 4: PSY 312, 325
  - Psychology Electives: 8-15 s.h.**
- C. **Concomitant Courses** 18 s.h.  
At least 9 hours from BIO, CHM, CIS, MAT, PHI 330, or PHY. Course selection must be approved by a Psychology faculty advisor.
- D. **Free Electives** 12 s.h.  
To be chosen with advisement subject to regulations contained in the Advisory Guide in this Undergraduate Bulletin.
- E. Successful completion of a comprehensive examination is required.

## PUBLIC ADMINISTRATION

- A. **General Education** 60 - 62 s.h.
- B. **Major Program** 39 s.h.
- Required Courses: 33 s.h.**  
POL 130, 150, 215, 225, 345, 381, 390, 425
  - Electives in Political Science: 6 s.h.**
- C. **Concomitant Courses** 12 s.h.  
Statistics, CIS 112 or above, PSY 220, and one from: SOC 230, 270, 310, GEG 310, 341 or 343.
- D. **Free Electives** 18 s.h.  
To be chosen with departmental advisement subject to regulations contained in the Advisory Guide and in this Undergraduate Bulletin.

- E. Successful completion of a comprehensive examination is required.

## TELECOMMUNICATIONS

- A. **General Education** 60 - 61 s.h.
- B. **Major Program** 42 - 45 s.h.
- Core Requirements: 12 s.h.**  
TVR 010, 050, 055, 070
  - Major Track (Management):**  
TVR 113, 120, 220, 230, 320, 380, 390, TVR Workshops and 3-6 TVR Electives
  - Major Track (Production):**  
TVR 220, 250, 255, 355, 365, 380, 390, TVR Workshops and 3-6 TVR Electives
- C. **Concomitant Areas** 12 - 27 s.h.  
Before selecting a concomitant area of study, a telecommunications student needs to confer with a faculty advisor regarding specific required courses. Students may choose from the following areas: Business Administration, Computer and Information Science, Dance, Journalism/Public Relations, Speech/Theatre, Psychology, Sociology, Music, Library Science, Multi-Discipline, and Public Administration.

- D. **Arts and Science Electives** 0 - 14 s.h.
- E. Successful completion of a comprehensive examination is required.

## SPECIAL PROGRAMS FOR LIBERAL ARTS STUDENTS

### LIBRARY SCIENCE

A concentration for Liberal Arts Students in Library Science qualifies them for certification as a Provisional Librarian in public libraries in Pennsylvania. These core Library Science courses may also be used as prerequisites for further study on the graduate level in Library Science. The block of courses will enable the student to develop skills and methods required to work in Reference and Reader's Advisory Services, the Children's or Young Adult collection, and in the Technical Service Components of a public library.

#### Required Courses:

LIB 011: Information Needs & Service I	3
LIB 121 Resources for Children OR	3
LIB 122 Resources for Young Adults	3
LIB 313 Cataloging & Classification I	3
LIB 375 Field Work	3

### SUMMARY OF REQUIREMENTS FOR GRADUATION IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES

1. Completion of at least 128 semester hours of college work in accordance with all requirements (1) General Education (2) Major Field (3) Concomitant Courses, and (4) Arts and Sciences Electives as set forth for each program.
2. Attainment of passing grades in all courses specifically required under Section 1 of General Education and under the Major Program.
3. Attainment of specified levels in foreign language.

4. Attainment of at least a 2.00 cumulative quality point average for all courses taken at the college level.
5. Attainment of at least a 2.00 quality point average for all courses taken in the Major Field.
6. Successful completion of a comprehensive examination in the Major Field.

### 3+2 ENGINEERING PROGRAM

The faculties of Kutztown University and the Colleges of Engineering and Earth and Mineral Sciences of the Pennsylvania State University have agreed to establish an educational program in liberal arts and engineering. Three years, or the equivalent, will be spent by an enrolling student at Kutztown University, where the student will study liberal arts subjects along with pre-engineering courses in the basic sciences. Upon satisfactory completion of the first three years and the recommendation of the Kutztown engineering program advisor, the student will enter the Pennsylvania State University. Successful completion of this five-year program results in awarding of an appropriate engineering degree from PSU and, in special cases, a Bachelor's degree in General Studies from Kutztown University.

#### 3+2 Engineering Program

##### A. General Education 60-62 s.h.

##### B. Required Courses at Kutztown University

1. MAT 260, 271, 272, 273, 274, 340
2. CHM 100-101, 102-103
3. PHY 100-101, 102-103, 110, 312, 315
4. ENG 001, 002 or 205
5. SPE 010 or 130
6. CIS 135
7. EGR 121

##### C. Humanities and Social Sciences

1. A minimum of 6 credits must be in social sciences. One course must be in economics.
2. A minimum of 6 credits must be in humanities.
3. A minimum of 6 credits must be in the arts area.
4. A minimum of one, 6-credit sequence is required. A sequence is defined as a set of sequential courses in one discipline in which the first course is introductory and succeeding courses are more advanced.
5. Courses in freshman English, writing, language skills, the performing arts, studio arts and art practicum, business, finance and management are not considered arts, humanities or social sciences for the purpose of this program.

##### D. Additional Requirements

1. Chemical Engineering: CHM 214-215, 216-217
2. Aerospace, Electrical Engineering: MAT 473
3. Mining Engineering: GEL 100-101, 220-221
4. Petroleum and Natural Gas Engineering: GEL 100-101, 102-103

# College of Education

## GENERAL EDUCATION PROGRAM FOR EDUCATION MAJORS: (60 s.h.)

### 1. Basic Requirements

**in General Education: 15 s.h.**

- A. ENG 001: English Composition – 3 s.h.
- B. SPE 010: Fundamentals of Speech – 3 s.h.
- C. HIS 025/026: American History – 3 s.h.
- D. PSY 011: General Psychology – 3 s.h.
- E. HEA 101, 115, 116, or 120: Health – 2 s.h.
- F. Physical Education I, II and/or Dance I, II – 1 s.h.

### 2. Humanities: 12 s.h.

- A. Literature, Foreign Language, Philosophy – 6 s.h.
- B. Art History or Music or Speech or Theatre – 3 s.h.
- C. Elective in any Humanities area above – 3 s.h.

### 3. Social Sciences: 12 s.h.

- A. History, Political Science – 3 s.h.
- B. Sociology or Anthropology or Psychology\* – 3 s.h.
- C. Geography\* or Economics – 3 s.h.
- D. Elective in any Social Sciences area above – 3 s.h.

\* Psychology recommended.

### 4. Natural Sciences and Mathematics: 12 s.h.

- A. Mathematics – 3 s.h.
- B. Biological Science (Lab.) – 3 s.h.
- C. Physical Science or Earth Sciences \* (Lab.) – 3 s.h.
- D. Elective in any Natural Sciences\* area above or Mathematics – 3 s.h.

5. **Additional Electives:** Any course for which credit toward graduation is granted may be used to satisfy this requirement.

\* In the Geography discipline GEG 040, GEG 320/321, GEG 322, & GEG 324/325 Natural Science courses.

## ELEMENTARY EDUCATION

**Required for Graduation:**  
(128 s.h. Minimum)

The Elementary Education Curriculum consists of four categories of courses.

**Category I:** General Education Courses (60 s.h.) consult university catalog \*\*

**Category II:** Professional Education Courses\* (20-29 s.h.) – listed below

**Category III:** Courses in Elementary Specialization (36 s.h.) – listed below

**Category IV:** Area of Concentration\*\*\* (18-19 s.h.) – listed below

\* Educational Psychology and Child Psychology may be counted under General Education.

\*\* MAT 101 and MAT 102 must be taken as a prerequisite for ELU 308.

\*\*\* On selecting an Area of Concentration, students should immediately consult their advisor concerning when the courses are to be taken and how they are to be counted towards graduation.

## PROFESSIONAL EDUCATION COURSES

EDU 100: Perspectives on American Education	3
PSY 140: Educational Psychology	3
PSY 110: Child Psychology	3
AVC 331: Media and Technology in Education	3
AVC/LIB 125: Microcomputers in Education	3
SPU 100: Introduction to Special Education	3
ELU 390, 391: Student Teaching and Practicum	14

## COURSES IN ELEMENTARY SPECIALIZATION

ELU 110: Visual Arts Experience in Elementary Education	3
ELU 120: Music for Elementary Schools	3
ELU 201: Fundamentals of Reading Instruction I	3
ELU 205: Science for Elementary Schools	3
ELU 207: Health & Physical Education for Elementary Schools	3
ELU 320: Evaluative Techniques for the Elementary Teacher*	3

\* Evaluative Techniques is required of all elementary education majors except those students in dual certification programs which have Evaluative Techniques as a component part of their program.

## PROFESSIONAL SEMESTER

These courses must be taken as a block during the junior year so that the student can participate in the extended field experience component of the program. The field experience consists of a seven-week supervised assignment working with children in an elementary school. Exceptions to this requirement are granted only in very special cases by the department chairperson. These courses require a grade of "C" or better.

ELU 301: Fundamentals of Reading Instruction II	3
ELU 302: Children's Literature	3
ELU 303: Language Arts	3
ELU 304: Social Studies for Elementary Schools	3
ELU 306: Materials & Methods of Instruction	3
ELU 308: Mathematics for Elementary Schools	3

## CONCENTRATIONS WITHIN THE ELEMENTARY EDUCATION DEPARTMENT

### EARLY CHILDHOOD EDUCATION

These courses require a grade of "C" or better.

#### **Required: 18 s.h.**

ELU 130: Introduction to Early Childhood Education	3
ELU 231: Theoretical Foundations in Early Childhood Education	3
ELU 232: Early Childhood Education Curriculum	3
ELU 333: Communicative Skills in Early Childhood Education	3
ELU 334: Instructional Strategies in Early Childhood Education	3
ELU 335: Evaluative Techniques in Early Childhood Education	3
<b>Total</b>	<b>18</b>

The six courses are sequential. Each course is a prerequisite for the remaining courses in the sequence. The Early Childhood Education concentration offers preparation in early childhood education as well as in elementary education. A graduate of

the program receives certification in both of these areas. The Early Childhood Program, combined with courses in the Elementary Education Program, prepares students for teaching in pre-school programs, kindergartens, grades one through six in the elementary schools, and grades 7 and 8 in middle schools.

## READING

#### **Required: 18 s.h.**

ELU 201: Fundamentals of Reading Instruction I	3
ELU 251: Teaching Reading to the Culturally Different Child	3
ELU 252: Current Trends in Reading Instruction	3
ELU 301: Fundamentals of Reading Instruction I	3
ELU 302: Children's Literature	3
ELU 351: Diagnostic and Remedial Reading	3
<b>Total</b>	<b>18</b>

**NOTE:** ELU 201 is a prerequisite for all courses in the concentration.

## OTHER CONCENTRATIONS WITHIN THE ELEMENTARY EDUCATION DEPARTMENT

### ART

#### **Prerequisite: 3 s.h.**

ELU 110: Visual Arts Experience	3
---------------------------------	---

#### **Required: 9 s.h.**

ART 021: Drawing I*	3
ART 031: Two-Dimensional Design*	3
ART 024 or ART 025: Art History	3

#### **Electives: 6 s.h.**

Select TWO of the following courses:

ART 022: Drawing II	
ART 032: Three Dimensional Design	
ARU 329: Arts and Crafts for Atypical Learners	
CFT 121: Ceramics I	
CFT 131: Weaving I	
CFT 151: Wood Design I	
CFT 161: Jewelry and Metalcrafts	
FAR 111: Introduction to Painting	

FAR 131: Introduction to Watercolor Painting	
FAR 141: Introduction to Printmaking	
FAR 161: Photography I	
FAR 171: Introduction to Sculpture	
FAR 238: Visual Communication Techniques	
RAR 015: Aesthetic Experience in Art	

**Total 18**

\* ART 021 and ART 031 must be taken prior to studio electives.

## BIOLOGY

#### **Required: 12 s.h.**

BIO 104-105: Principles of Biology	4
BIO 106-107: Introduction to Zoology	4
BIO 108-109: Introduction to Botany	4

#### **Electives: 6 s.h.**

Recommended Electives:

BIO 210/211: Ornithology	3
BIO 150/151: Natural History	3

(Third elective must be 100 level or higher with a BIO prefix.)

**Total 18**

## DANCE

#### **Prerequisites:**

Introduction to Dance I (DAN 010) and Introduction to Dance II (DAN 011) are prerequisites to all other dance courses; they should be taken under General Education, Category I, Physical Education.

#### **Required: 6 s.h.**

DAN 268: The Choreographic Process	3
DAN 241: History of Dance I	3
OR	
DAN 242: History of Dance II	

#### **Electives: 12 s.h.**

Six of these Dance credits must be at the 200 level.

**12**  
**Total 18**

## EARTH-SPACE SCIENCE

### **Required: 12 s.h.**

AST 020-021: Introductory Astronomy	3
GEL 100-101: Physical Geology	3
GEG 320-321: Meteorology	3
MAR/GEL 110-111: Introduction to Oceanography	3

### **Electives: 6 s.h.**

To be selected from Geology, Astronomy, Meteorology or Oceanography subject areas.

6  
Total 18

## ENGLISH

### **Required: 9 s.h.**

ENG 001: English Composition	3
ENG 010: Introduction to Literature	3
ENG 220: English Linguistics	3

### **Electives: 9 s.h.**

Select THREE of the following courses:

ENG 101: World Literature	3
ENG 102: World Literature II	3
ENG 103: American Literature I	3
ENG 104: American Literature II	3
ENG 113: British Literature I	3
ENG 114: British Literature II	3

3  
Total 18

## FOREIGN LANGUAGES

Completion of eighteen semester hours of college level credit in one of the following languages: French, German, Russian, Spanish.

## GEOGRAPHY

### **Required: 9 s.h.**

GEG 010: Elements of Physical Geography	3
GEG 020: Elements of Cultural Geography	3
GEG 110: Geography of U.S. and Canada	3

### **Electives: 9 s.h.**

Any combination of three (3) Geography courses may be chosen as long as all three are not regional, topical, or systematic in nature.

9  
Total 18

## HISTORY

### **Required: 15 s.h.**

HIS 014: History of Civilization A	3
HIS 015: History of Civilization B	3
* HIS 025: History of the United States	3
* HIS 026: History of the United States	3
HIS 120: History of Pennsylvania	3

### **Electives: 6 s.h.**

Elective: One elective to be taken from the following:

HIS 132: History of Latin America: Modern	
HIS 150: Minorities in American History	
HIS 160: History of Africa: South of the Sahara	

Select ONE of the following courses:

HIS 212: Imperial Russia and the Soviet Union	
HIS 235: Europe of the World Wars	
HIS 352: History of the Far East	
HIS 356: The Modern Middle East	

3  
Total 18

\* Both must be taken, one to meet American History requirement in General Education, the other to meet the 18 hr. concentration.

## MATHEMATICS

### **Required: 6 s.h.**

MAT 101: Fundamentals of Mathematics I	3
MAT 102: Fundamentals of Mathematics II	3

### **Select ONE of the following courses:**

MAT 105: Elementary Functions I	3
MAT 115: Precalculus Mathematics	3
MAT 121: Mathematics for Business & Information Science	3
MAT 224: Foundations of Mathematics	3
MAT 221 or 271: Calculus for Business & Information Science or Calculus with Analytic Geometry I	3

### **Select ONE of the following:**

MAT 040: Geometry	3
MAT 140: Applied Statistical Methods	3
MAT 230: Statistics	3
MAT 240: Synthetic Geometry	3

### **Electives: 3 s.h.**

Any course with MAT prefix with the following exceptions: MAT 140 or MAT 230 may be taken but not both. MAT 015 may not be taken. Taking MAT 115 means MAT 105 and 106 may not be taken and taking MAT 105 and/or MAT 106 means MAT 115 may not be taken.

3  
Total 18

## MUSIC

### **Required: 14 s.h.**

MUS 010: Introduction to Music Literature	3
MUS 102: Harmony and Theory I	3
MUS 180: Sight Singing I	3
MUS 223: Development of the Child Voice	1
MUS 227: Creative Keyboard	1
MUS 229: Music in Childhood Education	3

### **Electives: 4 s.h.**

Electives in the area of theory, literature, methods or applied music complete the program. MUS & MVP

4  
Total 18

## PHYSICAL EDUCATION AND ATHLETICS

### **Required: 11 s.h.**

HEA 020: First Aid	2
PED 101: Scientific Bases of Human Movement	3
ELU 207: Health and Physical Education for Elementary Schools	3
PED 301: Current Issues in Elementary School Physical Education	3

### **Electives: 7/9 s.h.**

Select THREE of the following courses:

PED 111: The American Woman in Sport	3
PED 121: Movement Education for Children	2
PED 145: Lifeguard Training	3
PED 210: Physical Education Activities for Children in the Primary Grades	3
PED 211: Physical Education Activities for Children In Intermediate Grades	3
PED 219: Social Foundations of Athletic Coaching	3
PED 221: Concepts, Techniques, and Problems of Athletic Coaching	3
PED 226: History of Sport	3
PED 231: Adapted Physical Education	3
PED 245: Water Safety Instructor	2
PED 315: Prevention and Care of Athletic Injuries	3
PED 380: Independent Study	1-3
<b>Total</b>	<b>18/20</b>

Some courses are not offered every semester. Students are encouraged to enroll in those courses first if those courses are required for them.

**NOTE:** Upon graduation, student receives Instruction I Certification to teach elementary education not physical education.

## PSYCHOLOGY

### **Required: 9 s.h.**

PSY 110: Child Psychology	3
PSY 140: Educational Psychology	3
PSY 160: Psychology of Exceptional Children	3

### **Electives: 9 s.h.**

Select THREE of the following courses:

PSY 120: Adolescent Psychology	
PSY 200: Statistics for the Social and Behavioral Sciences	
PSY 202: Psychology of Personality	
PSY 210: Principles of Psychological Measurement	
PSY 215: Psychology of Prejudice	
PSY 230: Social Relations and Self Management Skills	
PSY 240: Social Psychology	
PSY 250: Abnormal Psychology	
PSY 255: Environmental Psychology	
PSY 260: Psychology of Human Communication	
PSY 265: Human Sexual Behavior	
PSY 311: Psychology of Learning, Motivation, and Emotion	
<b>Total</b>	<b>18</b>

## SCIENCE

### **Required: 18 s.h.**

### **Life Science/Biology: 6 s.h.**

BIO 010 - 011	Biological Science (Lab) Biology Elective
---------------	----------------------------------------------

### **Select one from the following:**

BIO 130	Man and the Environment
BIO 140	Biology and Society
BIO 146	Basic Nutrition and Diet Therapy
BIO 150 - 151	Natural History (Lab)
BIO 157	Fetal Biology and Birth Defects
BIO 210	Ornithology (Lab)

### **Earth Science: 6 s.h.**

Choice of Two	
GEL 020 - 021	Introduction to Geology Lab
AST 020 - 021	Introduction to Astronomy (Lab)
MAR 110 - 111	Introduction to Oceanography

## **Physical Science/**

## **Environmental Science: 6 s.h.**

Choice of Two

CHM 020 - 021	Introduction to Chemistry Lab
PHY 020 - 021	Introduction to Physics (Lab)
ENV 100 - 101	Introduction to Environmental Science

## SOCIAL STUDIES

### **Required: 9 s.h.**

HIS 014: History of Civilization A OR	3
HIS 015: History of Civilization B	
POL 010: American Government	3
GEG 010: Elements of Physical Geography OR	3
GEG 020: Elements of Cultural Geography	

### **Electives: 9 s.h.**

Must be 100 level or higher.

### **Select from the areas of:**

History, Geography, Economics,  
Sociology, Political Science, or  
Anthropology

**Total 18**

## SPEECH AND THEATRE

### **Required: 9 s.h.**

SPE 010: Fundamentals of Speech	3
SPE 051: Voice and Diction	3
SPE 120: Oral Interpretation I	3

### **Electives: 9 s.h.**

Must be course offerings in  
Speech and Theatre

**Total 18**



## URBAN EDUCATION

### Required: 12 s.h.

ELU 243: Teaching in the Urban Elementary and Middle Schools	3
ELU 251: Teaching the Culturally Different Child to Read	3
ANT 010: Cultural Anthropology	
SWK 010: Introduction to Social Work	3

### Electives: 9 s.h.

Select ONE of the following courses:

GEG 310: Urban Geography	3
HIS 340: American Urban History	3
SOC 230: Urban Sociology	3

Select ONE of the following courses:

HIS 145: The Search for Social Justice in America	3
GEG 311: Geography of Poverty in the United States	3
PSY 215: Psychology of Prejudice	3
SOC 110: Contemporary Social Problems	3
SWL 130: Poverty and Social Welfare	3

Select ONE of the following courses:

ENG 237: Black American Literature: Novel	3
HIS 150: Minorities in American History	3
MUS 219: Afro-American Music	3
SOC 140: Racial & Ethnic Minorities	3
SPE 213: Communication in a Multi-Cultural World	3

### Additional Requirements:

1. Professional Semester in urban setting.
2. Seven weeks of student teaching in Philadelphia schools.
3. Semester of community service in urban setting to be completed before graduation.

Total 18

## SPECIAL EDUCATION FOR THE VISUALLY IMPAIRED AND ELEMENTARY EDUCATION SEQUENCE

### Required for Graduation: (134 s.h.)

(Sequence of General Education Requirements and Electives listed below is suggested only)

Because of the scarcity of complete vision programs in the vicinity, students selecting this program should anticipate and plan for the possibility of being assigned to distant locations for the student teaching semester.

### FIRST SEMESTER

	s.h.
ENG 001: English Composition I	3
Natural Science or Math Elective (Biological Science/Lab)	3
Social Science Elective (Geography, Economics)	3
Humanities Electives (Literature, Foreign Language, Philosophy)	3
EDU 100: Perspectives on American Education	3
SPU 100: Introduction to Special Education	3
	<u>18</u>

### SECOND SEMESTER

	s.h.
PSY 011: General Psychology	3
Natural Science or Math Elective (Physical Science, Earth Space Science/Lab)	3
Humanities Elective (Art History, Music, Speech and Theatre)	3
HEA 101: Current Health Issues	2
SPE 010: Fundamentals of Speech	3
SPU 110: Survey of Programs and Services for Students With Visual Impairments	2
PED 011: Physical Education I thru 087	.5
	<u>16.5</u>

### THIRD SEMESTER

	s.h.
PSY 140: Educational Psychology	3
ELU 120: Music for Elementary Schools	4
MAT 101: Fundamentals of Mathematics I	3
SPU 200: Reading, Writing, and Teaching Literary Braille	2
SPU 202: Orientation and Mobility for Teachers of Students with Visual Impairments	3
AVC 125: Microcomputers in Education	3
	<u>17</u>

### FOURTH SEMESTER

	s.h.
ELU 110: The Visual Arts Experience in Elementary Education	3
MAT 102: Fundamentals of Mathematics II	3
PSY 110: Child Psychology	3
ELU 201: Fundamentals of Reading Instruction I	3
SPU 300: Reading, Writing, and Teaching Literary Braille, Nemeth Mathematics Code, and Other Braille Codes	2
SPU 204: Anatomy and Physical Aspects of the Eye	3
PED 002: Physical Education II	.5
	<u>17.5</u>

### FIFTH SEMESTER

	s.h.
ELU 205: Science for Elementary Schools	3
ELU 207: Health and Physical Education for Elementary Schools	3
Special Education Elective	3

Select ONE of the following courses:

SPU 242: Hearing Problems and Audiometry	
SPU 322: Learning Disabilities	
SPU 326: Mental Retardation	
SPU 328: Behavior Disorders	
SPU 330: Physically/Multiply Handicapping Conditions	
AVC 331: Media and Technology in Education	3
SPU 302: Adapting Materials and Methods of Instruction and Evaluation for Teaching Students with Visual Impairments	3
Social Science Elective	3
	<u>18</u>

**SIXTH SEMESTER\***

ELU 301: Fundamentals of Reading Instruction II	s.h. 3
ELU 302: Children's Literature	3
ELU 303: Language Arts	3
ELU 304: Social Sciences for Elementary Schools	3
ELU 306: Materials and Methods of Instruction	3
ELU 308: Mathematics for Elementary Schools	3
	<hr/> 18

*(Seventh and Eighth Semesters are Interchangeable)*

**SEVENTH SEMESTER**

Social Science Elective (History, Political Science)	s.h. 3
HIS 025 or HIS 026: American History	3
Humanities Elective (Literature, Foreign Language, Philosophy)	3
General Education Elective	3
Humanities Elective	3
	<hr/> 15

**EIGHTH SEMESTER**

ELU 390 or ELU 391: Student Teaching and Practicum: Elementary	s.h. 7
SPU 390 or SPU 391: Student Teaching and Practicum: Visual Impairment	7
	<hr/> 14

\* Courses in this, the professional semester, must be scheduled as a group.

### SPECIAL EDUCATION FOR THE MENTALLY AND PHYSICALLY HANDICAPPED AND THE ELEMENTARY EDUCATION SEQUENCE

*Required for Graduation: (134 s.h.)*

(Sequence of General Education Requirements and Electives listed below is suggested only)

**FIRST SEMESTER**

ENG 001: English Composition I	s.h. 3
Natural Science or Math Elective: (Biological Science Lab)	3
Social Science Elective: (Geography, Economics)	3
Humanities Elective: (Literature, Foreign Language, Philosophy)	3
SPU 100: Introduction to Special Education	3
EDU 100: Perspectives in American Education	3
	<hr/> 18

**SECOND SEMESTER**

PSY 011: General Psychology	s.h. 3
Natural Science or Math Elective: (Physical Science, Earth Space Science/Lab)	3
Humanities Elective: (Art History, Music, Speech & Theatre)	3
Social Science Elective	3
SPE 010: Fundamentals of Speech	3
HEA 101: Current Health Issues	2
PED 011: Physical Education I thru 087	0.5
	<hr/> 17.5

**THIRD SEMESTER**

SPU 220: Special Class Methods	s.h. 3
MAT 101: Fundamentals of Mathematics I	3
PSY 110: Child Psychology	3
ELU 120: Music for Elementary Schools	3
AVC 125: Microcomputers in Education	3
PED 011: Physical Education II thru 087	0.5
	<hr/> 15.5

**FOURTH SEMESTER**

HIS 025 or HIS 026: American History	s.h. 3
PSY 140: Educational Psychology	3
ELU 201: Fundamentals of Reading Instruction I	3
ELU 110: Visual Arts Experience in Elementary Education	3
SPU 222: Reading and Other Language Arts for Exceptional Children	3
MAT 102: Fundamentals of Mathematics II	3
	<hr/> 18

*(Fifth and Sixth Semesters are Interchangeable)*

**FIFTH SEMESTER**

AVC 331: Media and Technology in Education	s.h. 3
ELU 205: Science for Elementary Schools	3
ELU 207: Health and Physical Education for Elementary Schools	3
Social Science Elective: (History, Political Science)	3
SPU 320: Curriculum Development for Mentally and Physically Handicapped	3
Special Education Elective (Choose one of the following)	3
SPU 322: Learning Disabilities	
SPU 326: Mental Retardation	
SPU 328: Behavior Disorders	
SPU 330: Physically/Multiply Handicapping Conditions	
	<hr/> 18

**SIXTH SEMESTER\***

ELU 301: Fundamentals of Reading Instruction II	s.h. 3
ELU 302: Children's Literature	3
ELU 303: Language Arts	3
ELU 304: Social Studies for Elementary Schools	3
ELU 306: Materials and Methods of Instruction	3
ELU 308: Mathematics for Elementary Schools	3
	<hr/> 18

*(Seventh and Eighth Semesters are Interchangeable)*

**SEVENTH SEMESTER**

	s.h.
Humanities Elective	3
General Education Elective	3
Special Education Elective:	3
Select ONE of the following:	
SPU 322: Learning Disabilities	
SPU 326: Mental Retardation	
SPU 328: Behavior Disorders	
SPU 330: Physically/Multiply Handicapping Conditions	
Humanities Elective:	3
(Literature, Foreign Language, Philosophy)	
Special Education Elective:	3
Select ONE of the following:	
SPU 322: Learning Disabilities	
SPU 326: Mental Retardation	
SPU 328: Behavior Disorders	
SPU 330: Physically/Multiply Handicapping Conditions	
	<u>15</u>

**EIGHTH SEMESTER**

	s.h.
ELU 390 or ELU 391: Student Teaching and Practicum (Elementary)	7
SPU 392 or SPU 393: Student Teaching and Practicum (Mentally and Physically Handicapped)	7
	<u>14</u>

The Mentally and Physically Handicapped majors are required to have several experiences with disabled individuals. Students should contact the Special Education Office for details.

\* *Courses in this, the professional semester, must be scheduled as a group.*

**SPECIAL EDUCATION —  
SPEECH-LANGUAGE  
PATHOLOGY**

**Required for Graduation: (131 s.h.)**

(Sequence of General Education Requirements and Electives below is suggested only)

**FIRST SEMESTER**

	s.h.
ENG 001: English Composition I	3
Natural Science or Math Elective (Biological Science/Lab)	3
SPU 100: Introduction to Special Education	3
SPU 040: Survey of Speech Problems	3
EDU 100: Perspectives on American Education	3
PED 011: Physical Education I thru 087	0.5
	<u>15.5</u>

**SECOND SEMESTER**

	s.h.
SPE 010: Fundamentals of Speech	3
PSY 011: General Psychology	3
Natural Science or Math Elective: (Physical Science, Earth Space Science/Lab)	3
SPU 140: Phonetics	3
SPU 142: Normal Speech and Language Development	3
HEA 101: Current Health Issues	2
PED 011: Physical Education II thru 087	0.5
	<u>17.5</u>

**THIRD SEMESTER**

	s.h.
HIS 025 or HIS 026: American History	3
PSY 110: Child Psychology	3
General Education Elective	3
SPU 240: Language Disorders	3
Social Science Elective (Geography, Economics)	3
SPU 144: Anatomy and Physiology of the Speech Mechanism	3
	<u>18</u>

**FOURTH SEMESTER**

	s.h.
ELU 201: Fundamentals of Reading Instruction I	3
SPU 247: Augmentative and Alternative Communication	3
Natural Science or Math Elective (Math)	3
PSY 120: Adolescent Psychology	3
SPU 242: Hearing Problems and Audiometry	3
SPU 246: Articulation and Stuttering	3
	<u>18</u>

**FIFTH SEMESTER**

	s.h.
Humanities Elective (Literature, Foreign Language, Philosophy)	3
SPU 244: Aural Rehabilitation	3
SPU 248: Organic Disorders	3
SPU 350: Clinic and Practicum I	3
SPU 342: Clinical Methods and Materials	3
	<u>15</u>

**SIXTH SEMESTER**

	s.h.
SPU 340: Psychology of Speech and Hearing	3
SPU 352: Clinic and Advanced Practicum II	3
Humanities Elective	3
Social Science Elective (Sociology, Anthropology, Psychology)	3
Natural Science or Math Elective	3
	<u>15</u>

**(Seventh and Eighth Semesters are Interchangeable)**

**SEVENTH SEMESTER**

	s.h.
Humanities Elective (Literature, Foreign Language, Philosophy)	3
Social Science Elective (History, Political Science)	3
Humanities Elective (Art, Music, Public Address and Theatre)	3
General Education Electives (2)	6
	<u>18</u>

**EIGHTH SEMESTER**

SPU 394 and SPU 395: Student Teaching and Practicum	s.h.
	14
	14

**LIBRARY SCIENCE****Required for Graduation: 128 s.h.**

Suggested sequence of General Education Requirements and Electives:

**FIRST SEMESTER**

ENG 001: English Composition Requirement	s.h.
Health	3
SPE 010: Fundamentals of Speech	2
Social Science Elective	3
Natural Science and Mathematics Elective	3
LIB 011: Information Needs & Services I	3
	17

**SECOND SEMESTER**

Humanities Elective	s.h.
HIS 025, 026: Natural Science and Mathematics Elective	3
HIS 025, 026: U.S. History	3
PSY 011: General Psychology	3
Additional General Education Elective	3
EDU 100: Perspectives on American Education	3
	18

**THIRD SEMESTER**

Humanities Elective	s.h.
Natural Science and Mathematics Elective	3
Social Science Elective	3
Library Science Elective	3
LIB 121: Resources for Children	3
Physical Education I	0.5
	15.5

**FOURTH SEMESTER**

Humanities Elective	s.h.
Natural Science and Mathematics Elective	3
Physical Education II	0.5
Social Science Elective	3
LIB 122: Resources for Young Adults	3
Additional General Education Elective	3
	15.5

**FIFTH SEMESTER**

Social Science Elective	s.h.
Additional General Education Elective	3
LIB 313: Cataloging and Classification	3
LIB 320: Library Administration	3
Humanities Elective	3
LIB 431, 440, 472; SPU 415: Library Science Electives or FREE ELECTIVE	3
	18

**SIXTH SEMESTER  
(Professional Semester)**

SPU 100: Introduction to Special Education	s.h.
LIB 315: Collection Development	3
LIB 326: Microcomputer Based Systems for Librarians	3
LIB 330: Education Program of the School Media Center	3
AVC 331: Media and Technology in Education	3
PSY 140: Educational Psychology	3
	18

**(Seventh and Eighth Semesters are Interchangeable)****SEVENTH SEMESTER**

LIB 390, 391: Library Practice and Professional Practicum	s.h.
	14
	14

**EIGHTH SEMESTER**

Free Electives	s.h.
	15
	15

**GENERAL EDUCATION  
PROGRAM FOR SPECIAL  
EDUCATION MAJORS (60 s.h.)**

- Basic Requirements in General Education: 15 s.h.**
  - Composition – 3 s.h.
  - SPE 010: Fundamentals of Speech – 3 s.h.
  - SPE 025/026: American History – 3 s.h.
  - General Psychology – 3 s.h.
  - HEA 101, 115, 116, 120: Health – 2 s.h.
  - Physical Education I, II and/or Dance I, II – 1 s.h.
- Humanities: 12 s.h.**
  - Literature, Foreign Language, Philosophy – 6 s.h.
  - Art History or Music or Speech or Theatre – 3 s.h.
  - Elective in any Humanities area above – 3 s.h.
- Social Sciences: 12 s.h.**
  - History, Political Science – 3 s.h.
  - Sociology or Anthropology or Psychology (PSY 120)\*\* – 3 s.h.
  - Geography\* or Economics – 3 s.h.
  - Elective in any Social Sciences area above (PSY 140)\*\* – 3 s.h.
- Natural Sciences and Mathematics: 12 s.h.**
  - Mathematics – 3 s.h.
  - Biological Science (Lab.) – 3 s.h.
  - Physical Science or Earth Sciences\* (Lab.) – 3 s.h.
  - Elective in any Natural Sciences\* area above or Mathematics – 3 s.h.
- Additional Electives:** Any course for which credit toward graduation is granted may be used to satisfy this requirement.

\* In the Geography discipline GEG 040, GEG 320/321, GEG 322, & GEG 324/325 Natural Science courses.

\*\* Psychology recommended.

## SECONDARY EDUCATION

**Required for Graduation:**  
(128 s.h. Minimum)

The Secondary Education Curriculum consists of courses in three categories:

- I. **GENERAL EDUCATION: 60 s.h.**
- II. A. **PROFESSIONAL EDUCATION — Required: 31 - 38 s.h.**

EDU 100: Perspectives on American Education	3
PSY 140: Educational Psychology	3
PSY 120: Adolescent Psychology	3
EDU 310: Problems of Secondary Education	3
EDU 340: Teaching Reading in Secondary School Academic Subjects	3
AVC 300: Instructional Media and Technology	3
EDU 220: Appraisal and Evaluation in Secondary Schools	3
SEU 321- Methods of	3
SEU 390: Teaching Secondary School Subjects *	
ELU 390: Student Teaching and Practicum	14

\* Students getting dual certification are required to take methods courses in each area of certification.

- III. **ACADEMIC SPECIALIZATION: 24 s.h. minimum**  
(See following pages)

Appropriate courses in the ACADEMIC SPECIALIZATION may be applied also in the Humanities, Social Studies, Natural Science and Mathematics, and other electives divisions of GENERAL EDUCATION.

The sequence of courses listed below is suggested only.

Contiguous semesters may be interchanged, except that the Professional Semester should immediately precede Student Teaching which must be scheduled in EITHER the seventh or eighth semester.

## FRESHMAN

### FIRST SEMESTER

	s.h.
ENG 001: English Composition	3
SPE 010: Fundamentals of Speech*	3
Humanities Elective	3
Natural Science and/or Math Elective	3
HIS 025/026: Social Science Elective	3
Physical Education I	0.5
	<hr/> 15.5

### SECOND SEMESTER

	s.h.
Humanities Electives (2)	6
Natural Science and/or Math Electives	6
Social Science Elective	3
Physical Education II	0.5
Health	2
	<hr/> 17.5

\* SPE 010 fulfills the oral communication requirement.

## SOPHOMORE

### THIRD SEMESTER

	s.h.
Survey course in American History (requirement)	3
Natural Science or Math Elective	3
Humanities Elective	3
Social Science Elective	3
Elective	3
	<hr/> 15

### FOURTH SEMESTER

	s.h.
Social Science Elective	3
PSY 011: General Psychology	3
EDU 100: Perspectives on American Education	3
Electives	9
	<hr/> 18

## JUNIOR

### FIFTH SEMESTER

	s.h.
Electives	9
PSY 120: Educational Psychology	3
PSY 140: Adolescent Psychology	3
	<hr/> 15

### SIXTH SEMESTER

	s.h.
Electives	16
	<hr/> 16

## SENIOR

### SEVENTH SEMESTER

\* (Professional semester; courses should be scheduled as a group.)

THE PROFESSIONAL SEMESTER WILL INCLUDE A TWO-WEEK FIELD EXPERIENCE.

	s.h.
Instructional Media and Technology	3
Methods of Teaching Secondary School Subjects	3
Teaching Reading in Secondary School Academic Subjects	3
Problems of Secondary Education	2
Appraisal and Evaluation in Secondary Schools	3
Course in Specialization	3
	<hr/> 17*

### EIGHTH SEMESTER

	s.h.
Student Teaching and Practicum	14
	<hr/> 14

(First semester of senior year should be professional semester.)

# AREAS OF ACADEMIC SPECIALIZATION AND CERTIFICATION IN SECONDARY EDUCATION

## BIOLOGICAL SCIENCE

**Specialization: 61-64 s.h.**

### Required: 30 s.h.

BIO 104: Principles of Biology	4
BIO 106: Introduction to Zoology	4
BIO 108: Introduction to Botany	4
BIO 224: App Env Micro	3
BIO 234: Animal Physiology	3
BIO 242: Ecosystems Ecology	3
BIO 310: Genetics	3
BIO 346: Molecular Biology	3
ENV 222: Environmental Biology	3

### Field Elective: 3 s.h.

Select ONE of the following courses:

BIO 150: Natural History	
BIO 210: Ornithology	
BIO 230: Tax of Vasc Plants	
BIO 302: Entomology	
BIO 332: Limnology	
Biology Electives (6 s.h.)	
(one at 300 level)	
BIO	3
BIO	3

### Physical Science: 16 s.h.

CHM 100: General Chemistry I	4
CHM 102: General Chemistry II	4
CHM 214: Organic Chemistry I	4
PHY 040: General Physics I	4

### Mathematics Requirements: 6 - 9 s.h.

MAT 105: Elementary Functions I	3
MAT 106: Elementary Functions II	3
MAT 140: Applied Statistical Methods	3
OR	
MAT 115: Precalculus Math	3
MAT 140: Applied Statistical Methods	3

## CHEMISTRY

**Specialization: 56 s.h.**

### Required: 46 s.h.

CHM 100: General Chemistry I	4
CHM 102: General Chemistry II	4
CHM 230: Quantitative Analysis	4
CHM 214: Organic Chemistry I	4
CHM 216: Organic Chemistry II	4
CHM 310: Biochemistry	4
CHM 314: Physical Chemistry I	4
CHM 316: Physical Chemistry II	4
PHY 100: Physics I	4
PHY 102: Physics II	4
MAT 271: Calculus with Analytic Geometry I	3
MAT 272: Calculus with Analytic Geometry II	3

### Earth Science: 3 - 4 s.h.

Select ONE of the following courses:

AST 140, AST 142, GEG 320, GEL 100, or MAR 110	3-4
---------------------------------------------------	-----

**Electives:** A minimum of 3 s.h. to be selected from the following courses:

CHM 312: Biochemistry II	4
CHM 320: Advanced Inorganic Chemistry I	4
CHM 322: Advanced Inorganic Chemistry II	4
CHM 326: Advanced Inorganic Chemistry Mech.	3
CHM 330: Organ. Qual. Analysis	3
CHM 336: Advanced Physical Chemistry	3
CHM 340: Inst. Analysis	4
CHM 370: Research in Chemistry	1-3
PHY	3
GEL	3
AST	3
MAR	3

**NOTE:** Up to 21 s.h. of Specialization courses may be applied to Categories IV and V of General Education.

## COMMUNICATION

**Specialization: 57 s.h.**

### Required Communication Core: 57 s.h.

Select one of the following:

THE 015: Introduction to Theatre	3
OR	
THE 140: Play Production	

Select one of the following:

SPE 205: Argumentation and Debate	
OR	
SPE 210: Persuasive Speaking: Theory and Practice	3

Literature Survey 1 (Both in either American or British Literature)	3
------------------------------------------------------------------------	---

Literature Survey 2	3
---------------------	---

SPE 120: Oral Interpretation I	3
--------------------------------	---

SPE/ENG 212: Mass Media	3
-------------------------	---

ENG 220: Introduction to English Linguistics	3
----------------------------------------------	---

ENG 230: Advanced Composition	3
-------------------------------	---

ENG 240: History of the English Language	3
------------------------------------------	---

<b>Speech/Theatre Electives</b>	9
---------------------------------	---

<b>Language/Writing Electives</b>	9
-----------------------------------	---

<b>Literature Electives</b>	12
-----------------------------	----

## EARTH-SPACE SCIENCE

The student is to select one of the following three concentrations. This program also carries a certification in General Science with an Earth-Science Concentration.

## ASTRONOMY

**Specialization: 55 s.h.**

**Required: 49 s.h.**

AST 140: Astronomy I	3
AST 142: Astronomy II	3
AST 240: The Planetarium	3
CHM 100: General Chemistry I	8
CHM 102: General Chemistry II	8
PHY 100-101, PHY 102-103: Physics I & II	8
BIO 104: Principles of Biology	4
GEL 100: Elements of Physical Geology	4
GEL 102: Historical Geology	4
GEL/MAR 110: Oceanography	3
GEG 320: Meteorology	3
MAT 271, 272: Calculus with Analytical Geometry I & II	6
PHY 100 Physics I	4

**Electives: 6 s.h.**

At least 6 s.h. from an approved list of astronomy, mathematics, and physics courses. (See program sheet.)

## GEOLOGY

**Specialization: 55 s.h.**

**Required: 40 s.h.**

GEL 100: Elements of Physical Geology	4
GEL 102: Historical Geology	4
GEL/MAR 110: Oceanography	3
GEG 320: Meteorology	3
AST 140, 142: Astronomy I & II	6
CHM 100, 102: General Chemistry I & II	8
PHY 040, 042: General Physics I & II	8
BIO 104: Principles of Biology	4
<b>Geology Electives</b> (three courses)	9
<b>Mathematics Electives</b> (two courses): MAT 105 or above	6

## MARINE SCIENCE

**Specialization: 55 s.h.**

**Required: 40 s.h.**

GEL 100: Elements of Physical Geology	4
GEL 102-103: Elements of Historical Geology	4
GEL/MAR 110: Introduction to Oceanography	3
GEG 320: Meteorology	3
AST 140, 142: Astronomy I & II	6
CHM 100, 102: General Chemistry I & II	8
PHY 040, 042: General Physics I & II	8
BIO 104: Principles of Biology	4
<b>Marine Science Electives</b> (three courses)	9
<b>Mathematics Electives</b> (two courses): 105 or above	6

The mathematics electives should be at the student's maximum level of competence, beginning with MAT 105 or more advanced.

## ENGLISH

**Specialization: 48 s.h.**

**Required: 30 s.h.**

ENG 100: Principles of Literary Analysis	3
ENG 103: American Literature I	3
ENG 113 or 114: British Literature I or II	3
ENG 101 or 102: World Literature I or II	3
ENG 220: Linguistics	3
ENG 225: Teaching of Adolescent Literature	3
ENG 240: History of the English Language	3
ENG 230: Advanced Composition	3
WRI 212: Mass Media OR	3
WRI 219: Culture & Media or a course in Theatre, Film, or Telecommunications	3
SPE 120: Oral Interpretation	3

**Writing Electives: 6 s.h.**

WRI 205, 207, 211, 214	6
------------------------	---

**Literature Electives: 12 s.h.**

Required one ENG 236, 237, 275, 276, 277	3
---------------------------------------------	---

Require 1 in ENG 330, 331, 332 and 6 require one Expository Writing course and one additional writing course in addition to required course ENG 230.

## FOREIGN LANGUAGES — FRENCH

**Specialization: 24 s.h.**

**Required: 18 s.h.**

FRE 021: Elementary French III	3
FRE 022: Intermediate French IV	3
FRE 130: Composition & Conversation	3
OR	
FRE 210: Advanced Language Phonetics	3
FRE 220: Applied Linguistics in French	3
A Literature Course	3
FRE 340: French Culture & Civilization	3

**Electives: 6 s.h.**

FRE 301: Survey of French I	3
FRE 302: Survey of French II	3
FRE 130: Comp & Conversation	3
FRE 210: Advanced Language Phonetics	3
FRE 300: French Classical Drama	3
FRE 305: French Literature of 18th Century	3
FRE 310: French Literature of 19th Century	3
FRE 320: Development of French Novel	3
FRE 325: Advanced Syntax/ Stylistics I	3
FRE 326: Advanced Syntax/ Stylistics II	3
FRE 330: French Literature of 20th Century	3
FRE 335: French Lyric Poetry	3
FRE 345: Modern French Drama & Theatre	3
FRE 351: French Literature in English Translation A	3
FRE 352: French Literature in English Translation B	3
FRE 370: Selected Topics in French	3

\* May be fulfilled by Establishing Competency. (No Credit)

## FOREIGN LANGUAGE — GERMAN

*Specialization: 27 s.h.*

### **Required: 21 s.h.**

GER 021: Intermediate German III	3
GER 022: Intermediate German IV	3
GER 211: Composition & Conversation I	3
GER 212: Composition & Conversation II	3
GER 220: Applied Linguistics in German	3
A Literature Course	3
GER 340: German Culture & Civilization	3

### **Electives: 6 s.h.**

GER 301: Survey of German Literature I	3
GER 302: Survey of German Literature II	3
GER 311: German Literature of 18th Century	3
GER 312: German Literature of 19th Century	3
GER 313: German Literature of 20th Century	3
GER 320: German Short Story	3
GER 325: Advanced Syntax/ Stylistics I	3
GER 326: Advanced Syntax/ Stylistics II	3
GER 351: German Literature in English Translation A	3
GER 352: German Literature in English Translation B	3
GER 370: Selected Topics in German	3

\* May be fulfilled by Establishing Competency. (No Credit)

## FOREIGN LANGUAGE — RUSSIAN

*Specialization: 24 s.h.*

### **Required: 18 s.h.**

RUS 021: Intermediate Russian III	3
RUS 022: Intermediate Russian IV	3
RUS 130: Composition & Conversation	3
OR	
RUS 210: Advanced Language & Phonetics	
RUS 220: Applied Linguistics in Russian	3
A Literature Course	3
RUS 340: Russian Culture & Civilization	3

### **Electives: 6 s.h.**

RUS 301: Survey of Russian Literature I	3
RUS 302: Survey of Russian Literature II	3
RUS 130: Composition & Conversation	3
RUS 210: Advanced Language & Phonetics	3
RUS 310: Russian Literature of 20th Century	3
RUS 320: Development of Russian Novel	3
RUS 325: Advanced Syntax/ Stylistics I	3
RUS 326: Advanced Syntax/ Stylistics II	3
RUS 335: Russian Lyric Poetry	3
RUS 345: Modern Russian Drama/ Theatre	3
RUS 351: Russian Literature in English Translation A	3
RUS 352: Russian Literature in English Translation B	3
RUS 370: Selected Topics in Russian	3

\* May be fulfilled by establishing competency. (No credit)

## FOREIGN LANGUAGE — SPANISH

*Specialization: 30 - 33 s.h.*

### **Required: 21 s.h.**

SPA 211: Composition & Conversation I	3
OR	
SPA 212: Composition & Conversation II	3
SPA 220: Applied Linguistics in Spanish	3
SPA 325: Syntax & Stylistics	3
A Literature Course	3
SPA 380: Senior Semester A Culture Course	3

### **Electives: 9 - 12 s.h.**

SPA 301: Survey of Spanish Literature I	3
SPA 302: Survey of Spanish Literature II	3
SPA 290: Commercial Spanish	3
SPA 311: Spanish American Literature to 1910	3
SPA 312: Spanish American Literature of 20th Century	3
SPA 320: Contemporary Spanish Novel	3
SPA 326: Advanced Syntax/ Stylistics II	3
SPA 330: Contemporary Spanish Drama	3
SPA 340: Culture of Spanish to 1893	3
SPA 341: Modern Spanish Culture	3
SPA 345: Latin American Culture & Civilization	3
SPA 346: Modern Latin American Culture	3
SPA 350: Spanish Drama of Golden Age	3
SPA 355: Spanish Literature of Golden Age	3
SPA 370: Selected Topics in Spanish	3
SPA 390: International Internship in Spanish	3

\* May be fulfilled by establishing competency. (No credit)



## GENERAL SCIENCE

The student is to select one of the following concentrations:

### Biology

**Specialization: 55 - 58 s.h.**

**Required: 24 s.h.**

BIO 104: Principles of Biology	4
BIO 106: Introduction to Zoology	4
BIO 108: Introduction to Botany	4
BIO 226: Marine Biology	3
BIO 242: Ecosystems Ecology	3
BIO 310: Genetics	3
ENV 100 : Introduction to Environmental Science	3
OR	
ENV 222: Environmental Biology	

**Field Electives: 3 s.h.**

Select ONE of the following courses:

BIO 150: Natural History	3
BIO 210: Ornithology	3
BIO 230: Tax of Vasc. Plants	3
BIO 302: Entomology	3
BIO 332: Limnology	3

**Biology Electives: 3 s.h.**

BIO	3
-----	---

**Physical Science and  
Math Electives: 25 - 28 s.h.**

**Earth Science: 7 s.h.**

GEL 100: Physical Geology	4
AST 140: Astronomy I	3
OR	
AST 026	

**Chemistry: 8 s.h.**

CHM 100: General Chemistry I	4
CHM 102: General Chemistry II	4

**Physics: 4 s.h.**

PHY 040: General Physics I	4
----------------------------	---

**Mathematics: 6-9 s.h.**

MAT 105: Elementary Functions I	3
MAT 106: Elementary Functions II	3
MAT 140: Applied Stat. Methods	3
OR	
MAT 115: Precalculus Math	3
MAT 140: Applied Stat. Methods	3

## Chemistry

**Specialization: 51 s.h.**

**Required: 21 s.h.**

GEL 100-101: Physical Geology	4
PHY 040, 042: General Physics I & II	8
AST 140: Astronomy I	3
OR	
AST 026	
MAT 105: Elementary Functions I	3
MAT 106: Elementary Functions II	3
<b>Biology Electives</b>	6
<b>Chemistry Electives</b>	24

## Physics

**Required:**

AST 140-141: Astronomy I	3
GEL 100-101: Physical Geology	4
CHM 100-101, 102-103: General Chemistry I & II	8
MAT 271: Calculus with Analytic Geometry I	3
MAT 272: Calculus with Analytic Geometry II	3
Biology Electives	6
Physics Electives	24

## Earth-Space

**Required:**

CHM 100-101, 102-103: General Chemistry I & II	8
PHY 040-041, 042-043: General Physics I & II	8
MAT 105: Elementary Functions I	3
MAT 106: Elementary Functions II	3
AST 140-141: Astronomy I (Solar System)	3
<b>Electives</b>	
Biology course beyond BIO 010 (with Lab)	3

At least 21 semester hours in Earth/  
Space Courses, including all of the  
following areas: Geology, Astronomy,  
Meteorology and Oceanography 21

## MATHEMATICS

**Specialization: 39 s.h.**

**Required: 33 s.h.**

MAT 220: History of Math	3
MAT 260: Linear Algebra	3
MAT 330: Theory of Numbers	3
MAT 224: Foundations of Math	3
MAT 271: Calc-An Geometry I	3
MAT 272: Calc-An Geometry II	3
MAT 273: Calc-An Geometry III	3
MAT/CIS 135: Computer Information Science I	3
MAT 311: Abstract Algebra I	3
MAT 240: Synthetic Geometry	3
MAT 230: Statistics	
OR	
MAT 301: Problems & Statistics I	3

**Electives: 6 s.h.**

Select TWO of the following courses:

MAT/CIS 136: Computer Information Science II	3
MAT 205: Math of Finance	3
MAT 274: Calc-An Geom IV	3
MAT 302: Prob & Stats II	3
MAT 312: Abstract Algebra II	3
MAT 320: Geometry & Real Numbers	3
MAT/CIS 332 : Numerical Analysis	3
MAT 340: Differential Equations	3
MAT 351: Advanced Calculus I	3
MAT 352: Advanced Calculus II	3
MAT 361: Math Meth-Op. Research	3
MAT 370: Select Topics-Math (I.S.)	3
MAT 431: Introduction to Topology	3

\* **NOTE:** Credit toward the Mathematics Specialization will not be granted for both MAT 230 and MAT 301, but if taken, both will count in determining the Math specialization grade point average.

### PLEASE NOTE:

Subject to regulations governing enrollment in 400-level courses, the following courses are recommended as free electives for the Mathematics major in Secondary Education:

MAU 415: Learning and Teaching Mathematics	
MAU 425: Middle School Mathematics	

## MATHEMATICS AND PHYSICS

**Specialization: 63 s.h.**

### Required:

BIO 104-105: Principles of Biology	4
CHM 100: General Chemistry I	4
CHM 102: General Chemistry II	4
MAT 271: Calculus with Analytic Geometry I	3
MAT 272: Calculus with Analytic Geometry II	3
MAT 273: Calculus with Analytic Geometry III	3
MAT 224: Foundations of Mathematics	3
MAT 230: Statistics OR MAT 301 Probability and Statistics I	3
MAT 240: Synthetic Geometry OR	3
MAT 320: Geometry and The Real Numbers	3
MAT 260, 274, OR 340: Linear Algebra, Calculus Anal. Geom. IV, or Differential Equations	3
MAT 311: Abstract Algebra	3
MAT elective at the 200-level or above	3
MAT 112, 124, OR 135 — BASIC Programming, Introduction to FORTRAN, OR Computer Information Science I	3
PHY 100-101: Physics I	4
PHY 102-103: Physics II	4
PHY 110: Modern Physics	3
PHY 312: Mechanics	4
PHY 315: Advanced Laboratory I	2
PHY 316: Electricity and Magnetism	3

Select at least THREE of the following:

PHY 210: Heat Thermodynamics	3
PHY 220: Electronics	3
PHY 230: Optics	3
PHY 319: Advanced Laboratory II	2
PHY 360 Quantum Mechanics	3

**NOTE:** Up to 21 s.h. of Specialization courses may be applied to Categories IV and V of General Education. The mathematics elective may include any of the alternate courses in mathematics listed above, but it is not necessarily restricted to these courses.

## PHYSICS

**Specialization: 60 - 61 s.h.**

### Required: 30 s.h.

PHY 100: Physics I	4
PHY 102: Physics II	4
PHY 110: Modern Physics	3
PHY 210: Heat & Thermodynamics	3
PHY 230: Optics	3
PHY 312: Mechanics	4
PHY 315: Advanced Laboratory I	2
PHY 316: Elect. & Magnetism	3
BIO 104: Principles of Biology	4

### Earth Science: 23 - 24 s.h.

Select ONE of the following courses:

AST 140, AST 142, GEG 320, GEL 100, OR MAR 110	3-4
CHM 100: Gen. Chem. I	4
CHM 102: Gen. Chem. II	4
MAT 271: Calc. w/Anal. Geom. I	3
MAT 272: Calc. w/Anal. Geom. II	3
MAT 273: Calc. w/Anal. Geom. III	3
MAT 340: Differential Equations	3

### Mathematics Elective: 3 s.h.

Select ONE of the following courses:

MAT 124: Computer & Information Science I	3
MAT 135: Computer Information Science I	3
MAT 136: Computer & Information Science II	3
MAT 260: Linear Algebra	3
MAT 274: Calc. w/Anal. Geom. IV	3

### Electives: 6 s.h.

Select at least 6 s.h. of the following courses. One course marked with an asterisk must be included.

* PHY 220: Electronics	3
* PHY 319: Advanced Laboratory II	2
* PHY 360: Quantum Mechanics	4
* PHY 370: Research in Physics	1-4
AST	
CHM	
GEL	
PHY	

**NOTE:** Up to 21 s.h. of Specialization courses may be applied to Categories IV and V of General Education.

## SOCIAL STUDIES

### I. General Requirements:

A. The student shall select from the electives allocated to General Education, the Core, or the Major Emphasis, one course which has its focus in minority groups or a minority group.

B. The student shall select from the Core and/or the Major Emphasis two courses from different disciplines dealing with a single area either regional (e.g., Soviet Union and Eastern Europe, Africa, Latin America) or functional (e.g., urban, ethnic and racial, environmental, underdeveloped nations).

### II. Social Studies Core: Minimum of 51 s.h. for all students in program

#### A. Required: 18 s.h.

ANT 010: Cultural Anthropology — 3
ECO 011: Principles of Economics A — 3
GEG 020: Elements of Cultural Geography — 3
HIS 014: History of Civilization A — 3 OR
HIS 015: History of Civilization B
POL: Any course below the 100 level (3)
SOC 010: Principles of Sociology — 3

#### B. Included in Basic Requirements of General Education: 6 s.h.

HIS 025 or 026: A survey course in American History — 3
PSY 011: General Psychology — 3

#### C. Electives: 12 s.h.

12 semester hours from Social Studies disciplines, exclusive of the area of major emphasis. Students with History emphasis are expected to take: ECO 012, a second POL, a second SOC, and a GEG or ANT. Other students will choose electives

with the assistance of their advisors.

\* Students with emphasis in Political Science must take POL 130, Political Analysis, as the required POL course in the core.

### III. Major Emphasis: 21 s.h.

#### A. Anthropology Emphasis: 21 s.h. Required: 15 s.h.

1. ANT 030 Introduction to Prehistoric Archeology 3
2. Select at least TWO of the following courses:  
ANT 101, ANT 102, ANT 150, ANT 171, ANT 180, ANT 210, ANT 215, ANT 370 6
3. Select at least TWO of the following courses :  
ANT 020, ANT 230, ANT 240, ANT 274, ANT 275, ANT 290, ANT 320, ANT 335, ANT 360, ANT 370 6
4. At least 6 semester hours of course offerings in Anthropology, not taken in 2 or 3 above.
5. **Minority Course** 3
6. **Area Course** 6

#### B. Economic Emphasis: 21 s.h.

1. **Required: 3 s.h.**  
ECO 012: Principles of Economics B
2. **Electives: 18 s.h.**  
18 semester hours from additional course offerings in Economics.
3. **Minority Course: 3 s.h.**
4. **Area Course: 6 s.h.**

#### C. Geography Emphasis: 21 s.h.

1. **Required: 9 s.h.**  
GEG 010 Elements of Physical Geography 3  
  
Select ONE course in Regional Geography 3  
  
Select ONE course in Techniques of Geography 3
2. **Electives: 12 s.h.**  
12 s.h. to be selected from additional course offerings in Geography.
3. **Minority Course: 3 s.h.**
4. **Area Course: 6 s.h.**

#### D. History Emphasis

- 21 s.h. in addition to courses in the Core and the Basic Requirements of General Education.
1. **Required: 9 s.h.**  
Select at least ONE survey course in American History 3  
  
Select at least ONE survey course in Western Civilization 3  
  
Select at least ONE area history course 3  
(Same area as in Core)
  2. **Electives: 12 s.h.**  
12 s.h. from additional course offerings in History.
  3. **Minority Course** 3
  4. **Area Courses** 6

#### E. Political Science Emphasis: 21 s.h. \*

1. **Required: 9 or 12 s.h.**  
A course in political theory (POL 221, 223, or 323) – (3)  
  
Select TWO of the following courses:  
POL 010: American Government 3

POL 020: International Relations 3  
POL 305: Western European Government 3

2. **Electives: 9 or 12 s.h.**  
9 or 12 s.h. to be selected from additional course offerings in Political Science

#### 3. **Minority Course: 3 s.h.**

#### 4. **Area Course: 6 s.h.**

#### F. Psychology Emphasis: 21 s.h.

1. **Required: 9 s.h.**  
PSY 250: Abnormal Psychology  
POL/PSY/SOC 200: Statistics for the Social & Behavioral Sciences  
PSY 270: Experimental Psychology

#### 2. **Electives: 12 s.h.**

#### 3. **Minority Course: 3 s.h.**

#### 4. **Area Course: 6 s.h.**

#### G. Sociology Emphasis: 21 s.h.

1. **Required: 6 s.h.**  
SOC 350 Methods of Social Research – 3  
  
Select ONE of the following courses:  
SOC 245, SOC 260, SOC 310, SOC 365, SOC 370
2. **Electives: 15 s.h.**  
15 s.h. from additional course offerings in Sociology.
3. **Minority Course: 3 s.h.**
4. **Area Course: 6 s.h.**

\* Students with emphasis in Political Science must take POL 130, Political Analysis, as the required POL course in the core.

The ultimate responsibility for compliance with academic requirements for graduation and certification rests entirely with the student.

# Graduation and Certification

## GRADUATION REQUIREMENTS

To be graduated, a student must complete a minimum 128 semester hours of credit with a cumulative quality point average of 2.0 or better, in all courses attempted while a student at Kutztown University and in the College of Arts and Sciences, and the College of Business, also in all courses in the major field. Sixteen semester hours of the last 32 semester hours of credit required for graduation must be completed at this institution. Students in the Medical Technology program may take their 30 semester hours at an approved hospital for which Kutztown University will grant credit. A minimum of thirty-two (32) semester hours must be taken at Kutztown University. Students are required to complete half of the minimum semester hour degree requirements in the major at Kutztown University. Courses completed to fulfill this requirement must be at the upper level. In some cases, in order to comply with this regulation, a student may be required to complete more than 128 semester hours for degree.

Graduation requirements shall also include completing a balanced program in general education as detailed in the several academic curricula and meeting requirements in a specific curriculum.

## APPLICATION FOR GRADUATION

Students who plan to complete requirements for the degree at the end of a current semester must complete a diploma data form at registration.

## CERTIFICATION FOR TEACHING

**Types of Certification** — To teach or to function in another professional position in the public schools of Pennsylvania, a professional certificate issued by the Pennsylvania Department of Education is required.

The **Instructional I Certificate** is issued to a person whose prime responsibility shall be direct contact with learners in teaching – learning situations. Example: classroom teacher, teacher of library science (librarian), reading specialist. This certificate may be issued to an applicant who has been granted the baccalaureate degree by an accredited college or university and who has completed a state-approved Teacher Education program. It permits one to teach for six years in a Pennsylvania school.

Before one commences the seventh year of teaching in a public school, an **Instructional I Certificate** must be converted into an Instructional II Certificate by submitting evidence of having taught successfully for three years in the schools (public or licensed private) of Pennsylvania and of having completed twenty-four semester hours of post baccalaureate work. Courses taken **after** the baccalaureate degree has been granted, either for Level I certification or for the extension of a Level I certificate, may be applied toward the requirements for the Instructional II Certificate. These courses may be in a variety of fields and even from different accredited four-year-institutions. They can be graduate study, undergraduate study or a blend of the two, the only limitation being that they are not related to other professions such as law, medicine, or the ministry. The full range of academic and professional credits, both graduate and undergraduate, at Kutztown University is applicable to the

Instructional II Certificate. Other certificates are issued for other purposes. The **Educational Specialist Certificate**, for instance, is issued to cover professional service other than classroom teaching. Examples: guidance counselor, school nurse, dental hygienist and school psychologist. A **Supervisory Certificate** is issued to a person whose primary responsibility is to supervise and direct the activities of other school employees.

**Certification for Holders of the Baccalaureate Degree** — Initial or additional certification may be secured by holders of the baccalaureate degree upon completion of a state-approved program for such certification. If the certification program under consideration is on the undergraduate level, the applicant must apply to, and be accepted as a certification student by the office of Graduate Studies and Extended Learning. The appropriate departmental chair, in consultation with the Director of Student Teaching, will evaluate credits already earned and will provide a written program of study specifying the additional credits and conditions necessary to permit Kutztown University to recommend certification. It is expected that these credits will be earned at Kutztown University.

Approval of transfer of credits from other colleges for courses specified in the certification letter must be sought in advance by the use of forms available in the Registrar's Office. **As a general policy, no more than one-third of the prescribed course work will be permitted on a pre-approved transfer-of-credit basis.**

## PENNSYLVANIA TEACHER CERTIFICATION TESTING PROGRAM

All teacher certification candidates seeking initial or provisional certification are required to complete and pass a comprehensive examination called the National Teacher Examination (NTE) which includes an appropriate specialty test. This requirement was established under Chapter 49 (Certification of Professional Personnel) of the REGULATIONS OF THE STATE BOARD OF EDUCATION OF PENNSYLVANIA as amended on September 13, 1984, to be effective June 1, 1987.

Applicants must meet the passing scores established by the Pennsylvania Department of Education at the time the applicant applies for certification. Candidates failing one or more tests are eligible to retake the test(s) for there is no limit to the number of retakes. The Pennsylvania Department of Education will not issue any certificate until the candidate completes and passes all parts of the NTE including the appropriate specialty test.

Of the **41** specialization tests, **11** will actually be the specialization tests now available as part of the NTE. The other **30** specialization tests have been customized for the Pennsylvania Department of Education by the Educational Testing Service (ETS). The **11** NTE Specialty Area tests for Pennsylvania include:

- Biology and General Science\*
- Chemistry, Physics and  
General Science\*
- Early Childhood
- Elementary
- Home Economics
- Industrial Arts
- Library Media Specialist
- Mathematics
- Music
- Reading Specialist
- Social Studies

**\* (Candidates for certification in General Science may choose either of these two tests. Candidates for certification in Biology, Chemistry or Physics must take the Pennsylvania Specialty tests in those subjects.)**

Candidates planning to take the NTE should contact the Office of Career Services for registration information and applications. Kutztown University is an official test center. Students with questions concerning the NTE should consult with academic advisors and/or the departmental chair.

### INSTRUCTIONAL I (PROVISIONAL) CERTIFICATE

The Instructional I (Provisional) Certificate may be issued to an applicant who has completed an approved teacher education curriculum and has been granted the baccalaureate degree by an accredited college or university and completed all required Prakis tests. Upon application by the duly qualified graduate, the Pennsylvania Department of Education issues the Instructional I (Provisional) Certificate, which is a certificate to teach in Pennsylvania.

The Instructional I (Provisional) Certificate, which specifies the subjects the holder is qualified to teach or the services which the holder is qualified to offer, is valid for six years of teaching.

### LEVEL II (PERMANENT) CERTIFICATE

Instructional I (Provisional) Certificate required for permanent validation the completion of 24 semester hours of post-baccalaureate or graduate study at an accredited college or university or the equivalent approved in-service work.

Courses taken to extend an Instructional I (Provisional) Certificate to include additional fields may be used to make the certificate permanent. Course work related to other professions (e.g. Law, Medicine or the Ministry) cannot be applied.

### EXTENSION OF CERTIFICATION

Certified teachers wishing to extend their certificates to cover additional teaching fields will be recommended for the desired extension upon completion of specific requirements as indicated in the following paragraphs.

#### ***To Include the Elementary Field —***

College certificates valid in the secondary or special fields may be extended to include the elementary field by completing the required courses in elementary specialization included in the curriculum outline appearing on page 67 of this Bulletin.

#### ***To Include the Secondary Field —***

Certificates valid in the elementary or special fields may be extended for the secondary field by the completion of the required courses in a secondary subject depending upon the area of specialization. The completion of the appropriate methods course for the same area of specialization is also a requirement.

These requirements are listed between pages 75 through 81 of this Bulletin.

#### ***To Include Art Education —***

A college certificate may be extended to include the teaching of art upon the satisfactory completion of a maximum of 57 semester hours of specific art courses required in the approved curriculum in art education. Fewer hours may be required depending upon previous coursework.

***To include Library Science —***

A college certificate may be extended to include Library Science upon satisfactory completion of between 27-47 semester hours of specific courses required in the approved curriculum. The amount of required hours is dependent upon the background and experience of the student.

Fully certified classroom teachers may make special arrangements to complete certification as school librarians while earning an MLS degree. This will require some undergraduate work, however, in addition to the Master's degree program.

***To Include the Special Education***

***Field*** — Valid teaching certificates may be extended to include teaching in the Special Education areas — Mentally and Physically Handicapped; Visually Impaired; or Speech-Language Pathology. Individuals must complete a program of specialized courses within one of the three specialization areas. For a list of courses please refer to pages 71 - 74 of this bulletin.

# College of Graduate Studies

## **MASTER OF ARTS**

Counseling Psychology  
    Agency Counseling  
    Marital and Family Therapy  
English  
Mathematics

## **MASTER OF BUSINESS ADMINISTRATION**

## **MASTER OF SCIENCE**

Computer and Information Science  
Telecommunications

## **MASTER OF EDUCATION**

Art Education  
Elementary Education  
Counselor Education  
    Elementary Counseling  
    Secondary Counseling  
    Student Affairs in Higher Education  
Secondary Education  
    Biology  
    Curriculum and Instruction  
    English  
    Mathematics  
    Social Studies  
Reading Specialist

## **MASTER OF LIBRARY SCIENCE**

## **MASTER OF PUBLIC ADMINISTRATION**

Inquiries regarding graduate programs, admission requirements, registration and transcripts will be handled promptly if addressed as follows: Dr. Wm. Bruce Ezell, Jr., Dean, College of Graduate Studies and Extended Learning, Kutztown University, Kutztown, Pennsylvania 19530. Telephone: (610) 683-4200 or FAX: (610) 683-1393.

# Undergraduate Course Descriptions

## RATIONALE FOR COURSE NUMBERING

The numbering of undergraduate courses is in keeping with the following pattern:

1. Those courses that are basic and introductory in nature are numbered 000-099.
2. Those courses that are intended for, but not restricted to, upper-class majors are numbered 300-399.
3. All remaining undergraduate courses are numbered 100-299.
4. Courses numbered 400 to 499 are graduate courses open to undergraduate juniors and seniors who have either a grade point average of at least 2.90 or permission of the instructor.

## ACCOUNTING

Completion of the lower division core requirements is a prerequisite for every 300 level College of Business course.

### ACC 121 Principles of Accounting I 3 ch - 3 sh

Accounting has been called "the language of business." In this introductory course, the basic accounting theories are studied. How to establish an accounting system, what should be included in that system, and how to continuously update the information in the system through the use of double-entry accounting is emphasized. The various journals and ledgers that are used in such a system are introduced and explained. A study of the basic concepts and principles of financial accounting, including but not limited to, the accounting cycle, financial statement preparation, internal control,

and information systems and processing are covered in the course. Material covered includes measurement and evaluation of current assets, current liabilities, plant assets, and intangibles. This information is presented from a proprietorship perspective, meaning a business owned by one person.

### ACC 122 Principles of Accounting II 3 ch - 3 sh

This course is a continuation of ACC 121, Principles of Accounting I. It expands on the knowledge acquired in ACC 121 and goes into additional forms of businesses, such as partnerships and corporations. The course then proceeds to cover further topics dealing with long term liabilities, cash flow analysis, financial statement analysis and concludes with an introduction to some of the basic concepts and applications of managerial accounting, such as cost behavior analysis and cost-volume-profit analysis. Problem solving skills and critical analysis are emphasized. PREREQUISITE: ACC 121 & BUS 171.

### ACC 303 Managerial Accounting 3 sh

The course will be a study of the development and use of accounting information in performing managerial functions and will stress the role of cost analysis in decision making. Areas of emphasis will include planning and control of routine operations, evaluation of performance at different levels within the organization, incremental analysis in nonroutine decision making, and the qualitative aspects of analyzing and using accounting data. Though the bulk of discussion will be directed toward profit-oriented activities, many of the concepts and techniques are equally applicable to activities that are not profit oriented. The course is for non-accounting majors only. A student may not receive credit for both ACC 303 and ACC 305.

### ACC 305 Cost Accounting 3 ch - 3 sh

Cost Accounting furnishes management with the necessary accounting tools for planning and controlling activities. Specifically, the collection, presentation, and analysis of cost data should help management accomplish tasks in the areas of budgeting, cost-volume-profit analysis, job-order and process cost systems, standard cost systems and variance analysis. This course is designed for accounting majors and is taught from an accountant's point of view. A student may **NOT** receive credit for both ACC 303 and ACC 305.

### ACC 306 Advanced Cost Accounting 3 ch - 3 sh

The course builds on and expands topics introduced in ACC 305 Cost Accounting. The managerial emphasis is continued and the subject area expanded to cover further issues in cost allocation and product costing and to introduce new areas, such as linear programming, capital budgeting, and economic order quantity. PREREQUISITE: ACC 305.

### ACC 312 Accounting Information Systems 3 ch - 3 sh

This course is designed to introduce accounting majors to a variety of transaction processing systems, such as accounts payable, inventory, and accounts receivable. Emphasis will be placed on the inputs, processing, outputs, databases, and internal controls associated with each system studied as well as the interrelationships among the systems. How to establish and follow audit trails through the system will also be covered. The first two steps in the structured systems development cycle, namely Systems Survey and Systems Analysis, will be emphasized. Developing systems via prototyping and the application of artificial intelligence in accounting systems are topics included in the course. This course is designed



for accounting majors; other business majors may be admitted with permission of the dean.

PREREQUISITES: ACC 305, ACC 321.

**ACC 313 Concepts of Taxation and Tax Planning 3 ch - 3 sh**

The course will cover concepts and principles of both business and individual taxation and tax planning as they apply primarily to the business enterprise. Emphasis is on a managerial approach to taxation, whereby tax principles and rules are applied, where appropriate, as a facet of financial planning of the business enterprise.

**ACC 317 Tax Accounting I 3 ch - 3 sh**

This course is an in-depth study of the Federal income taxation of individuals and provisions having common application to individuals and businesses. Topics covered include tax administration and procedure, tax research, gross income and exclusions, deductions and losses, property transactions, capital gains and losses, accounting periods and methods and the alternative minimum tax for individuals. In addition to theory, the practical compliance aspects of individual tax preparation are covered.

**ACC 318 Tax Accounting II 3 ch - 3 sh**

This course is a continuation of ACC 317 and is an in-depth study of the Federal income taxation of regular corporations and flow-through entities (partnerships, S Corporations, limited liability corporations and estates and trusts). Emphasis will be placed upon tax research and tax planning. In addition to theory, the practical compliance aspects of tax return preparation will be considered. PREREQUISITE: ACC 317.

**ACC 321 Intermediate Accounting I 3 ch - 3 sh**

A rigorous study of current financial accounting theory and practice. Builds on the fundamental concepts covered in the accounting principles courses and develops a more professional level of analysis. Coverage

includes the development of accounting standards, the conceptual framework of financial accounting, the accounting process, financial statements, time value of money, cash, receivables, inventories, property plant and equipment, intangible assets, current liabilities and contingencies.

**ACC 322 Intermediate Accounting II 3 ch - 3 sh**

A continuation of Intermediate Accounting I. Coverage includes long-term liabilities; stockholder's equity, dilutive securities and earnings per share; investments; revenue recognition; accounting for income taxes, pensions and leases; statement of cash flows. PREREQUISITE: ACC 321.

**ACC 323 Advanced Accounting 3 ch - 3 sh**

This course covers advanced accounting problems including consolidated financial statements, branch and foreign operations, price-leveling changes, bankruptcy and reorganization. PREREQUISITE: ACC 322.

**ACC 325 Not-For-Profit and Government Accounting 3 ch - 3 sh**

This course is a study of accounting, budgetary, financial control and evaluation procedures with respect to financial operations of governmental organizations and other not-for-profit institutions. The course includes accounting for federal government, state and local governments, hospitals, voluntary health and welfare organizations, colleges and universities, public schools and charities.

**ACC 330 Auditing Practice and Standards 3 ch - 3 sh**

This course is a rigorous introduction to audit theory, practice and ethics. It integrates the accounting, ethical, legal and auditing responsibilities of the Certified Public Accountant. Topics covered include audit reports, professional ethics, legal liability, the audit process, the nature of evidential matter, audit procedures in an EDP

environment and an introduction to audit-related statistical applications. A computerized audit case study, which provides students the experience of performing a simulated audit engagement, has been integrated as a key component of the course. PREREQUISITES: ACC 305, 312, 322.

**ACC 380 Senior Seminar in Accounting 3 ch - 3 sh**

Readings, research and discussions in accounting, with particular emphasis on the role of accounting in contemporary society. Case studies which integrate accounting and business principles are covered. Required of all Accounting majors. PREREQUISITE: ACC 322 and senior status.

## ANTHROPOLOGY

**ANT 010 Cultural Anthropology 3 sh**

An introduction to the cross-cultural study of human behavior with emphasis on non-Western cultures. Selected ethnographic material as well as general theories of technology, social, political, religious, family, and economic organization will be examined.

**ANT 020 Physical Anthropology 3 sh**

An introduction to the fossil record and biological variation of human and non-human primates and the mechanisms involved. Biological and socio-cultural factors are interrelated in explaining the evolution and variation of man.

**ANT 021 Laboratory in Physical Anthropology 2 ch - 1 sh**

A survey of the tools, techniques, and research concerns of the physical anthropologist, including osteology, anthropometry, anthroposcopy, serology, and dermatoglyphics. PREREQUISITE: ANT 020 concurrently or previously.

**ANT 030 Introduction to Prehistoric Archaeology 3 sh**

An introduction to archaeological methods and techniques, including site surveying, excavation and recording,

classification and description, dating, and data interpretation. Fieldwork will be optional except in the summer. Local Indian sites will be excavated. Three semester hours — lectures only.

**ANT 031 Introduction to Prehistoric Archaeology: Fieldwork 1 sh**

This course can be taken independently of ANT 030. In order to give fuller understanding to archaeological principles, students will participate in the survey and excavation of local archaeological sites.

**ANT 101 North American Indian 3 sh**

The comparative ethnology of non-literate tribes of North and Central America as they existed at Spanish contact times.

**ANT 102 The South American Indian 3 sh**

This course deals with the origin of the people of South America, the rise of the high civilization of the Pre-Inca and the Inca people. Much time is spent with the cultural adaptation of the various tribes of South America to the ecological condition in which they live.

**ANT 115 Communitarian Societies 3 sh**

A survey and analysis of those small, voluntary, and experimental communities whose purpose was to achieve drastic social reform by demonstration of success on a peaceful, micro-cosmic level. Concentration on communitarian groups in the U.S.A. from the 18th through 20th centuries, including societies such as the Ephrata Cloister, the Oneida Perfectionists, and the Sunrise Cooperative Farm Community.

**ANT 125 The Anthropology of Death and Dying 3 sh**

A survey of the on-going cultures of death and dying current in present-day Western society. Emphasis is on interaction with dying and grieving persons of all ages. Topics include the disaster syndrome, nursing homes, hospice, suicide, and funeral rituals.

**ANT/SOC 130 Marriage and the Family in Cross-Cultural Perspective 3 sh**

This course examines the forms taken by marriages and families in various world societies. The following questions will be addressed: What aspects of marriage and family are the same for all humans, and what aspects are variable? What factors account for major cross-cultural differences in the organization of marriage and the family? Why are some features the same (or nearly so) all over? Is there a biosocial base? How are marriage and family relationships used as metaphors in organizing other aspects of social life? PREREQUISITE: ANT 010 or SOC 010 or permission of the instructor.

**ANT 135 Pennsylvania German Cultural Traditions 3 sh**

This course is a survey of Pennsylvania German cultural traditions. The course examines the cultural traditions and practices of Anabaptist and Church Pennsylvania Germans, both in the past and in the present. These traditions and practices are studied in the context of various theories about culture, cultural pluralism, traditionalism, assimilation, and modernization. Students conduct their own research projects in neighboring communities and collect information about Pennsylvania German culture and society.

**ANT 150 Sub-Saharan Africa 3 sh**

A survey of the peoples and cultures of Africa south of the Sahara with emphasis on specific groups illustrating the variation of the area. Contact with non-African cultures and the consequences for Africa are considered.

**ANT 171 Peoples and Cultures of India and South Asia 3 sh**

A general introduction to the cultural traditions of India, Pakistan, Bangladesh, Nepal and Sri Lanka. Major areas of focus include religion (Hinduism, Buddhism, and Islam), caste, family, village and tribal life, modernization and cultural change. PREREQUISITE: ANT 010 or permission of the instructor.

**ANT 180 The Pacific and Australia 3 sh**

A survey of the cultures of Polynesia, Micronesia, and Melanesia, including Australia in historical and contemporary perspectives. Discussion of the peopling of Oceania with resultant cultural and physical diversity. Particular emphasis on the kinship structure of selected cultures.

**ANT 210 Peasant Society and Culture 3 sh**

An examination of how peasantry can be usefully regarded as a distinct type of society. Focus will be on the nature of peasant institutions and the ways peasant societies are adapting to the dynamic world of the 20th century. Ethnographic data from the major peasant culture areas will be utilized; however a specific effort will be made to explore two or three particular peasant societies in some depth. PREREQUISITES: either ANT 010, SOC 010, or permission of the instructor.

**ANT 215 Female and Male in Anthropological Perspective 3 sh**

A cross-cultural survey of the relationships between the sexes and of the range of roles associated with female and male will be combined with an exploration of the factors which may help explain these cross-cultural patterns. PREREQUISITE: ANT 010 or permission of the instructor.

**ANT 230 New World Archaeology 3 sh**

This course will deal with the peopling of the New World, rise of the high cultures, and the development of the Eastern Peoples to white contact times.

**ANT 240 World Prehistory 3 sh**

A survey of cultural development of homo sapiens and his hominid ancestors from the lower paleolithic to the rise of urban centers in the Old and New World.

**ANT 250 Linguistic Anthropology 3 sh**

An introduction to the major anthropological issues dealing with language and communication. This includes: the origins and evolution of language, animal communication, the structure of language and non-verbal communication, and the relationship between language, society and culture.

PREREQUISITE: ANT 010 or permission of the instructor.

**ANT 254 Medical Anthropology 3 sh**

This course is designed to combine anthropological knowledge and skills with public health problems and activities. Emphasis will be placed on the relationship between chronic disease and behavioral characteristics of the population under study. Ethno-graphic material will be drawn from a world-wide survey of various ethnic and national groups.

**ANT 258 Forensic Anthropology 3 sh**

This course is designed to combine anthropological knowledge and skills that will allow students to identify and classify human skeletal remains for legal and medical purposes. Special consideration will be given to osteological knowledge, various measuring techniques, observational skills, determination of age, sex and race, and any possible criminal wrongdoing.

**ANT 272 Human Genetics 3 sh**

Molecular, Mendelian, populational and behavioral genetics as they impact upon the human species are studied from both a lecture and a problem-solving view.

**ANT 273 Primate Studies 3 sh**

Non-human primate anatomy, taxonomy, distribution, adaption, and behavior as related to the human species.

**ANT 274 Human Evolution 3 sh**

The anatomical and behavioral evolution of Homo sapiens and its antecedents from the Oligocene to the Holocene is studied with emphasis upon the evolutionary basis of developments and the functional significance of changes. Extensive use is made of cast materials.

**ANT 285 Millenarian Movements 3 sh**

A cross cultural analysis of millenarian movements — cults and/or groups of cultural reform whose intent is to achieve a "millennium" or future period of great happiness, universal love, or other dramatic climax. Special emphasis is on the cultural conditions under which such groups tend to arise, on group leadership, and on techniques of recruiting and maintaining group membership.

**ANT/PSY 290 Culture and Personality 3 sh**

The course is designed as an interdisciplinary survey of the field of culture and personality. The key problem involves investigating the concepts of culture and personality and the nature of the relationship between them. Also may be taken as PSY 290. PREREQUISITES: Either ANT 010 or PSY 011.

**ANT 320 Archaeological Field Methods 3 sh**

This course will consist of surveying and evaluating local archaeological sites. This will be followed by excavation, classification, description, and analysis of the sites. Material will be returned to campus, cleaned, and prepared for study. This will allow students to participate in original scientific research.

**ANT 335 Research Methods in Anthropology 1 - 3 sh**

Students learn methods of anthropological research. PREREQUISITE: ANT 010, ANT 020, or ANT 030 as appropriate or permission of the instructor.

**ANT 360 History and Theory of Anthropology 3 sh**

Various schools of anthropological thought are studied for their contributions to the development of current anthropological theory and practice. PREREQUISITE: ANT 010 or permission of the instructor.

**ANT 370 Readings in Anthropology 1 - 3 sh**

Students preparing for advanced study in anthropology may undertake guided readings and research. Arrangements as to the program and supervising departmental faculty must be completed prior to registration. PREREQUISITE: ANT 010, 020, or 030 as appropriate or permission of the instructor. Offered as required. This course may be repeated for credit.

**ANT 379 Independent Study 1 - 3 sh**

Before registering the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit.

**ANT 380 Senior Seminar in Anthropology 3 sh**

This course consists of readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Anthropology. Required of all Liberal Arts students concentrating in Anthropology.

**ANT 390 and ANT 391 Internship in Anthropology 1 - 6 sh**

For each semester with a maximum of 12 sh total. The student is placed in an anthropological work situation in which supervised practical vocational experience can be acquired. Course credit will be determined prior to enrollment and will be based on the character and extent of the work-study program. Interested students should apply through their advisors. PREREQUISITE: Junior or Senior status. Anthropology Major.

**ANT 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**ANT/HIS 437 Indian-White Relations in North America, from the Earliest Contacts to Wounded Knee 3 sh**

This course will deal with Indian-White relations from the first contacts in the late 10th century through the empire-building attempts of the Spanish, Dutch, English and French in North America.

Of primary concern is the expansion of the European frontier at the expense of Indian tribal lands and culture, and the resulting intra-tribal warfare as the eastern Woodland tribes were removed west of the Mississippi River by the Government Removal Act and Allotment Policy of the 1830s.

## ART

### ART 021 & 022

#### **Drawing I & II** 12 ch - 6 sh

Graphic expression with various media based on individual sustained objective and subjective aesthetic concerns for human and nature forms. Emphasis is placed on physical as well as mental aspect of seeing. The courses cover two semesters (I, II) to be taken in sequence.

### ART 031 Two-Dimensional

#### **Design** 6 ch - 3 sh

Design implies order, arrangement, and plan. The student will study how design elements and principles influence perception and personal expression. Analysis of historical and contemporary art, together with exploration in various media and techniques, should give the student experience in conceptualizing, visualizing and executing two-dimensional designs.

### ART 032 Three-Dimensional

#### **Design** 6 ch - 3 sh

Studio involvement includes a continuum of experiences typical of the evolution of the concepts of three-dimensional sculpture/design as manifested in history. Constructive experiences with a great variety of materials are designed to develop relationships of two- and three-dimensional design and then identify concepts that are unique to three-dimensional design. The role of light will be explored as it affects elements: edge, shape, color as a change agent from the illusions of two-dimensional surface to the reality of three-dimensional space through the principles of emphasis, continuity and

balance, other natural phenomena, such as touch, motion, kinesthetic and some applications will be explored.

### ART 385 Individual Problems

#### **Seminar** 3 ch - 3 sh

An opportunity is provided to pursue a personal interest in an area of study that represents a particular independent challenge in art education, aesthetic education, or studio. The student will work with the professor on an individual basis during the study of his/her area of focus and will periodically report/display the findings/results to his/her peers in a seminar setting.

### ART 392 Field Experience

#### **in Art** 2-32 ch - 1-16 sh

This course is designed to provide the student with educational opportunities outside the normal academic program which cannot be gained through the more traditional course structure. By serving as apprentices, interns, aides or assistants in a variety of settings ranging from public institutions to private industries, businesses and studios, the student will be able to augment and extend his or her educational experiences to achieve specific personal/professional career objectives. Variable credits 1 to 16 semester hours. Minimum of two hours field experience per week or thirty hours per semester for each academic credit hour.

### ART 399 Student Exhibition 0 sh

This student exhibition is a requirement for graduation. All BFA Related Arts with a Visual Arts Concentration degree candidates participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the

Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

## ART EDUCATION

### ARU 227 Visual Arts & Human Development

3 sh

Course content is directed toward the theoretical bases of children's development in the visual arts. Visual and aesthetic development of both the typical and atypical student from pre-school to late adolescence is investigated. The making, perceiving and responding to the arts by children is examined by means of literature, lectures, seminars and observation of children. Implications which special conditions have for the art learning process are examined. A term project is required.

### ARU 245 Curriculum Theory and Design for Art

3 sh

This is a lecture-discussion course. Students study theories of art education, theories of curriculum, and the principles of curriculum planning for art within an historical perspective. A survey of the literature provides guidelines for applying learning processes and theory toward the development, organization, implementation, and evaluation of curricula. Students acquire skills for selecting content, writing goals and objectives, implementing subject matter, developing teaching strategies and evaluating learning processes. Emphasis is placed on integrating the content from the field of curriculum with the content from the disciplines comprising art education: aesthetics, art criticism, art history, and the production of art. **PREREQUISITES:** ARU 227 Visual Arts in Human Development.

### ARU 301 Art Education Field Experience

3 sh

This course is a practical orientation to the teaching of art in a multi-cultural society through being an aide to an art teacher in a school situation. Students have opportunities to experience the

adaptation of media and techniques for instruction in the classroom. Seminars, workshops, and individual conferences with the college instructor accompany the experience of the art classroom assistantship. Students are responsible for their own transportation. **PREREQUISITES:** ARU 227 Visual Arts and Human Development; ARU 245 Curriculum Theory and Design for Art.

**ARU 305 The Study of Aesthetic Education 3 ch - 3 sh**

As a culminating experience of the aesthetic education concentration this course explores contending theories of aesthetic education and their practical application in the classroom. In this course the student is required to demonstrate his/her ability to develop educational experiences focusing on relationships among the various arts and between the aesthetic education program and the general education program. **PREREQUISITE:** RAR 105 Aesthetic Experience in the Arts.

**ARU 327 Teaching Aesthetics, Criticism, Art History and Studio 3 ch - 3 sh**

In this course students prepare themselves to teach art history, criticism, aesthetics, and studio as part of the general art curriculum. Students study and develop curricula which integrate the various discipline components of art into a comprehensive program of art education. Individual, small group, and large group instructional activities are developed. Students examine and evaluate existing teaching resources and plan and produce their own.

**ARU & SPU 329 Arts and Crafts For The Atypical 6 ch - 3 sh**

Field experiences, research and art production analysis provide an orientation to the understanding of the art of atypical individuals. Implications which handicapping conditions have for the art learning process are examined through art studio experiences.

**ARU 377-380 Independent Study: Art Education 1 - 3 sh**

An opportunity is provided to pursue an interest in an area of study that represents a particular independent challenge in art education. This study is expected to diverge from normal course requirements. Repeatable up to 12 semester hours. **PREREQUISITE:** permission of instructor and department chairperson.

**ARU 390 Art Student Teaching and Practicum I 7 sh**

**ARU 391 Art Student Teaching and Practicum II 7 sh**

Student teaching is the culminating experience of the undergraduate Art Education program. It provides the student teacher with opportunities to observe professional art teachers on the advanced level and to participate instructionally in the art education programs of the schools. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable with the expectation of continued development of classroom management, teaching strategies, and instructional expertise. The student teacher is expected to plan and teach on both levels. The Practicum is a seminar, scheduled concurrently with Student Teaching; during the seminar, students discuss with the university supervisor teaching strategies, classroom management, application of theoretical models, and other pre-professional concerns.

**ARU 399 Student Exhibition 0 sh**

This student exhibition is a requirement for graduation. All BS in Art Education degree candidates and certification students participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the Senior Shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least

one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

**ART HISTORY**

**ARH 024 Art History A 3 sh**

This course will include the historical development of painting, sculpture, architecture, and craft arts from Pre-history through the Gothic Period in Western Art. Emphasis will be placed on cultural, economic, religious and philosophical factors and their relationship to art.

**ARH 025 Art History B 3 sh**

This course will include the historical development in Western art of painting, sculpture, architecture, and craft arts from the Renaissance through the present. Emphasis will be placed on cultural, economic, religious, and philosophical factors and their relationship to art.

**ARH 302 Early Christian and Byzantine Art 3 sh**

The study of the Christian art of western and eastern Europe, and environs, from Pentecost to the seventh century in the west up to the fifteenth century in the east.

**ARH 303 Art of Ancient Greece and Rome 3 sh**

The historical development of art-styles in painting, sculpture, architecture, and crafts and artistic concepts of ancient Greece and Rome from the rise of Greece to the fall of Rome.

**ARH 304 Renaissance Art 3 sh**

A study of Renaissance painting, architecture and sculpture with emphasis on the cultural forces which give form to the art. Concentration will be centered on Italy and the emergence of humanism.

**ARH 305 Medieval Art: Carolingian to High Gothic 3 sh**

This course presents a chronological development in style, iconography, and iconology of western painting, sculpture, architecture, and other art forms of this period.

**ARH 306 Art of Northern Europe: 1350-1580 3 sh**

The art of trans-Alpine Europe as it developed nationally during the time of the Renaissance in Italy. Particular attention is paid to that art of France, Great Britain, the Germanies, and the two Netherlands.

**ARH 307 European Art: 1580-1780 3 sh**

This course concerns itself with painting, sculpture, architecture, and the minor arts of Europe of the periods commonly known as the Baroque and Rococo.

**ARH 308 European Art: 1780-1880 3 sh**

This course concerns itself with painting, sculpture, architecture, and the minor arts of Europe of that period between Neo-Classicism and the end of Impressionism.

**ARH 309 Art Since 1950 3 sh**

An extensive study and discussion of current art in its own aesthetic context. This art is observed through the artist's encounters with life, object, and society.

**ARH 311 English Cathedrals 3 ch - 3 sh**

England has twenty-six cathedrals, thirteen of which are considered world class architectural structures and the supreme expression of early English architecture. These Anglican structures, dating from monastic foundations in the early middle ages, reveal within their individual forms great divergencies of style. These stylistic variations stem from many sources and span many centuries. This course will investigate the most important events that both created an environment in which the great cathedrals were built and those that brought about the many artistic changes and divergencies in the

structures themselves. Four of the most important of these events which will be examined are: the conversion of England to Christianity in the sixth century as a result of the missionary efforts supported by Pope Gregory the Great; the development of the great monasteries in England and the founding of the great bishoprics; the 1066 victory of Duke William the Norman at the Battle of Hastings; and finally, the rapidly spreading influence of the French Gothic style throughout the continent and England. The course will examine how the development of these great religious structures in England was dramatically and finally affected by the Dissolution of the Monasteries in 1539, bringing to a close the era of the great medieval cathedrals in England.

**ARH 321 The History of Photography 3 ch - 3 sh**

This course investigates the development of photography from its inception (c. 1839) to the present. During the semester students will examine the primary photographers, techniques and aesthetic issues addressed over the last 160 years. These aspects of photography will not be viewed in isolation, but within their historical and cultural context. **PREREQUISITES:** ARH 025 Art History B; one 300 level art history course in the modern area.

**ARH 334 American Art 3 sh**

Aesthetic expressions in architecture, painting, sculpture, interior design, industrial arts, and crafts as experiences of the artist in each major period of American life, to the Armory Show.

**ARH 338 European Modernism: 1880 - 1940 3 ch - 3 sh**

This course investigates the painting, sculpture and architecture created in Europe in the era of early Modernism. Major aesthetic issues, art movements, and the primary artists involved will be studied in relation to their historical and cultural context. **PREREQUISITES:** ARH 025 Art History B.

**ARH 339 Independent Studies in the History of Art 3 sh**

A course for the student who desires personal and professional guidance in studying precisely defined topics in the history of art. Repeatable up to 12 s.h.

**ARH 380 Senior Seminar in The History of Art 2 sh**

Historiography of the discipline, history of art: its history, methodology, and philosophy; all presented in the form of a colloquium.

## **ASTRONOMY**

**AST 020 Introductory Astronomy 4 ch - 3 sh**

**AST 021 Introductory Astronomy Laboratory**

A descriptive survey of the heavens including the constellations and stars, the earth as an astronomical body, the sun and our planetary system, eclipses, comets, measurement of time, the calendar, the celestial sphere, our galaxy, binary and variable stars, nebulae, the elements of astrophysics, cosmogony, the history of astronomy. Weekly laboratory exercises are an integral part of this course. It is closed to students who have taken AST 026. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors

**AST 026 Elements of Modern Astronomy 3 sh**

A non-laboratory introductory course of the study of the universe. Special emphasis will be placed on the physical properties of the planets and other members of the solar system, life in the universe, the structure and evolution of stars, and the theories concerning the origin and development of the universe. There are no prerequisites, but this course is not open to students who have taken AST 020-021 or its equivalent. This course does not satisfy the laboratory course requirement for physical sciences under general education.

**AST 140 Astronomy I 5 ch - 3 sh****AST 141 Astronomy I Laboratory**

A survey of the solar system with a special emphasis on the planets and their satellites, the minor planets, comets, and meteors. The historical developments of astronomy and physics and the application of astronomy in time determination, the calendar, celestial navigation and astronautics are introduced. There will be several planetarium and telescopic observation sessions. **PREREQUISITE:** MAT 105 or MAT 115 and PHY 040-041 or permission of the instructor.

**AST 142 Astronomy II 5 ch - 3 sh****AST 143 Astronomy II Laboratory**

A survey of stars and stellar systems including the sun as a star, stellar properties and distances, binary stars, variable stars, star clusters, stellar evolution, galaxies and the universe with special emphasis on the Milky Way Galaxy. Some concepts of astrophysics, radio astronomy and cosmogony are introduced. There will be several planetarium and telescopic observation sessions. **PREREQUISITE:** AST 140-141, MAT 106 OR MAT 115 and PHY 040-041 or permission of the instructor.

**AST 240 The Planetarium 5 ch - 3 sh****AST 241 The Planetarium Laboratory**

This course introduces the planetarium, its operation and maintenance. The student will learn the operation of the planetarium and the production of visual aids and tape recordings for use in planetarium presentations. The student will also become familiar with the use and operation of telescopes. **PREREQUISITE:** AST 142-143 or permission of the instructor.

**AST 370 Research in****Astronomy****1 - 4 sh**

This course will involve an individual research program on a specialized topic in astronomy and will require either library research, observational work, use of the computer or planetarium, or a combination of these. The results of such work might be published. **PREREQUISITES:** AST 140-141, 142-143 and the consent of the instructor. This course may be repeated for credit.

**AUDIOVISUAL COMMUNICATIONS****AVC/LIB 125 Microcomputers****in Education****3 sh**

The course will present undergraduate education students with a basic knowledge of how to effectively utilize microcomputers in education. Students will be involved in "hands-on" experiences with computer operation and software programs that include word processing and desktop publishing, graphics, spreadsheets, databases, authoring systems and telecommunications. Microcomputer technologies utilized in the contemporary classroom will be examined. No previous knowledge or experience with microcomputers is necessary.

**AVC 300 Instructional Media and****Technology****3 sh**

The sensory techniques and materials employed in the learning process together with the principles involved in their utilization are discussed. Skills in specific techniques, criteria used for selecting sensory aids as well as methods of evaluation are studied. Activities include actual production of instructional materials.

**AVC 310 Audiovisual Technology****in Communication****3 sh**

This course deals with the study of audiovisual technology in the communication process as used by business, industry, and the various medical, social and political agencies in our society.

**AVC 331 Media and Technology****in Education****3 ch - 3 sh**

The sensory techniques, technology and media employed in the learning process together with the psychological principles involved in their utilization are discussed. Skills in specific techniques and the criteria used for selecting technologies of instruction as well as methods of evaluation are studied. Activities include the production and application of instructional media. **PREREQUISITE:** AVC 125 or permission of the instructor.

**AVC 380 Independent Study****in Audiovisual****Communications****1 - 3 sh**

Independent Study is based on a student's pursuit of a subject in Audiovisual Communications not covered within a regularly offered undergraduate course in Audiovisual Communications. Students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Audiovisual Communications and Technology Department is required.

**AVC 446 Development of Multi-Image****Productions****3 sh**

The planning, production and presentation aspects of multi-image productions are studied. The student will participate in all phases of developing a multi-image program. **Recommended Background:** The ability to operate a 35mm camera and familiarity with basic photography techniques.

**THE BIOLOGICAL SCIENCES****BIO 010 Biological****Science****4 ch - 3 sh****BIO 011 Biological Science Laboratory**

The principles of biology, including cellular structure and physiology, growth, repair, reproduction and development, sources of food energy, inheritance, and human interrelationships with the biological environment. Plant and animal types are examined for structural and physiological similarities. A lab course intended for the general education of non-science majors. Not applicable to biology major programs.

**BIO 042 Principles of Molecular****Biology****5 ch - 4 sh****BIO 043 Principles of Molecular****Biology Laboratory**

An introduction to the principles related to molecular biology, metabolism and the genetics of inborn metabolic errors or defects. Diabetes will be used as a model disease system. It is

a laboratory course intended for students with majors who would benefit from a one semester college molecular biology experience. This course does not satisfy major requirements in molecular biology for the B.S. in Biology.

**BIO 104 Principles of Biology** 6 ch - 4 sh

**BIO 105 Principles of Biology Laboratory**

This course provides students with an introduction to the biological principles and functional aspects of biology that will serve as a foundation for understanding the biology of plants and animals. The concepts covered in this course include the scientific method, cellular structures and processes, genetics, evolution, and biodiversity. This class meets for three hours of lecture and three hours of laboratory per week. PREREQUISITES: One year of high school chemistry or CHM 020/021 or permission of the instructor.

**BIO 106 Introduction to Zoology** 6 ch - 4 sh

**BIO 107 Introduction to Zoology Laboratory**

This course contains an introduction to the principles of zoology. It places emphasis on the topics of evolution, ecology, animal diversity and comparative characteristics of selected phyla in the kingdoms Protista and Animalia. There are three hours of lecture and three hours of laboratory per week. PREREQUISITE: BIO 104/105 Principles of Biology.

**BIO 108 Introduction to Botany** 6 ch - 4 sh

**BIO 109 Introduction to Botany Laboratory**

This course is an introduction to the concepts of botany. Emphasis is placed on structure, function, plant diversity, and plant ecology. Topics include plant cellular structure, anatomy and morphology of stems, roots and leaves, transport processes, photosynthesis and respiration, plant growth and development, plant biotechnology, plant diversity,

economic botany, and plant ecology. There are three hours of lecture and three hours of laboratory per week. PREREQUISITE: BIO 104/105 Principles of Biology.

**BIO 120 Anatomy and Physiology I** 5 ch - 4 sh

**BIO 121 Anatomy and Physiology I Laboratory**

A systematic approach to the integrated study of human structure and function. Emphasis is placed on organization of the body, cells and tissues, integumentary system, skeletal system, muscular system, nervous system and special senses. This course is recommended for nursing and allied health students. Three hours of lecture and two hours of laboratory per week. PREREQUISITES: BIO 104, 106 or permission of the department chairperson.

**BIO 122 Anatomy and Physiology II** 5 ch - 4 sh

**BIO 123 Anatomy and Physiology II Laboratory**

A continuation of Anatomy and Physiology I. A systematic approach to the integrated study of human structure and function. Emphasis is placed on the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. This course is recommended for nursing and allied health students. Three hours of lecture and two hours of laboratory per week. PREREQUISITES: BIO 120/121 or permission of the department chairperson.

**BIO 130 Man and the Environment** 3 ch - 3 sh

A detailed analysis of man's interrelationships with other organisms and the environment — a course in Human Ecology. The deterioration of ecosystems will be studied. Population dynamics, environmental deterioration, ecosystems and man's interaction with the environment will be major topics. PREREQUISITE: Three semester hours of Biology. (Not applicable to biology major programs.)

**BIO 140 Biology and Society** 3 ch - 3 sh

The application of the principles of biology to the human as a social organism. The relevant biological aspects of genetics, evolution, behavior, and physiology in the context of today's world will be stressed. PREREQUISITE: Three semester hours of Biology. (Not applicable to biology major programs.)

**BIO 146 Basic Nutrition and Diet Therapy** 3 ch - 3 sh

Introduction to nutrients, vitamins, and minerals. Normal metabolism of each is traced from ingestion through elimination. Modifications in food consistency and in dietary content to maintain and restore health or control disease processes are identified. Relation of food intake and laboratory studies are also included. (Not applicable to biology major programs.)

**BIO 150 Natural History** 5 ch - 3 sh

**BIO 151 Natural History Laboratory**  
An introduction to natural history with emphasis on the vertebrates (exclusive of birds). Taxonomic and ecological aspects and emphasis on local flora and fauna will be considered. Laboratory studies include methods of collection, identifying, preserving, storing, and exhibiting of specimens. This course is designed for elementary and secondary education majors. (Not applicable to other biology major programs.)

**BIO 157 Fetal Biology and Birth Defects** 3 ch - 3 sh

A broad-based introductory study of the field of Fetal Biology and Birth Defects including areas such as fetal physiology and embryology and the abnormal development leading to birth defects. Lecture demonstrations will include microscopic examination and study of embryonic tissues. PREREQUISITE: Three semester hours of Biology. (Not applicable to biology major programs.)



**BIO 160 Introduction to Microbiology 5 ch - 3 sh**

**BIO 161 Introduction to Microbiology Laboratory**

A general introductory study of microorganisms with special emphasis on human microflora and disease. Laboratory studies include methods of culturing and identifying representative forms. PREREQUISITE: Three semester hours of Biology. (Not applicable to biology major programs.)

**BIO 210 Ornithology 5 ch - 3 sh**

**BIO 211 Ornithology Laboratory**

A study of birds east of the Rocky Mountains with special emphasis on birds of the Middle Atlantic States. Field study emphasized with trips to selected local environments. Laboratory and field identification, physiology, morphology and ecology of birds are emphasized. PREREQUISITE: Three semester hours of Biology (lab).

**BIO 220 Plant Anatomy 5 ch - 3 sh**

**BIO 221 Plant Anatomy Laboratory**

A descriptive study of the anatomy of seed plants. Morphological aspects, detailed ontogeny, and the relation between structures and function are utilized to enhance the understanding of plant structures and their variabilities. PREREQUISITES: BIO 104 and 108.

**BIO/ENV 222 Environmental Biology 5 ch - 3 sh**

**BIO/ENV 223 Environmental Biology Laboratory**

An introduction to the causes and symptoms of environmental deterioration. The effect of ecological perturbations on ecosystems especially the biota. Field experiences are an integral part of the course. PREREQUISITES: BIO 104 and either 106 or 108 or permission of the department chairperson.

**BIO/ENV 224 Applied Environmental Microbiology 5 ch - 3 sh**

**BIO/ENV 225 Applied Environmental Microbiology Laboratory**

This is an introductory microbiology course emphasizing prokaryotic functional anatomy, metabolism, and

genetics. Principles of diseases and a basic introduction to immunology are included which provide a background for an overview of a variety of common diseases. Applied and environmental aspects of food, soil, and water microbiology are stressed in both the lecture and the laboratory. The laboratory is an integral portion of the course and emphasizes laboratory techniques, physiological testing, food and water analysis, and identification of unknowns. There are two hours of lecture and three hours of laboratory per week. PREREQUISITES: BIO 104/105 and BIO 106/107.

**BIO/MAR 226 Marine**

**Biology 5 ch - 3 sh**

**BIO/MAR 227 Marine Biology Laboratory**

A study of the major groups of marine organisms, their adaptations and distribution within the marine environment. Laboratory work will include methods of sampling, identification, experimental manipulations, and a weekend field trip. PREREQUISITE: One year of Biology or permission of the instructor.

**BIO 230 Taxonomy of Vascular**

**Plants 5 ch - 3 sh**

**BIO 231 Taxonomy of Vascular Plants Laboratory**

The various systems of classification, distinguishing features of the principal groups with practical experience in the identification of flowering plants and ferns of the region with the use of keys. Each student is required to preserve, mount and identify a collection of native plants which serve as a study aid and which may be used in high school teaching. PREREQUISITES: BIO 104 and 108.

**BIO 232 Plant Physiology 5 ch - 3 sh**

**BIO 233 Plant Physiology Laboratory**

Introduction to physiological activities in plants, including water relations and solute absorption, translocation, growth and development. Laboratory experiments are designed to demonstrate physiological activities in plants and introduce basic techniques used in plant physiological research.

PREREQUISITES: BIO 104, 108 and CHM 100 and 102.

**BIO 234 Animal Physiology 5 ch - 3 sh**

**BIO 235 Animal Physiology Laboratory**

A study of function in higher vertebrates, using humans as the basis of comparison, at the level of organs, systems, and organisms. PREREQUISITES: BIO 104, 106 and CHM 100 and 102.

**BIO 236 Introduction to Plant**

**Pathology 5 ch - 3 sh**

**BIO 237 Introduction to Plant Pathology Laboratory**

A study of plant diseases incited by bacteria, viruses, and fungi are considered in lectures, laboratory exercises, and field trips. Special emphasis is placed on descriptions, diagnosis and controls of the more important plant pathogens. PREREQUISITES: BIO 104 and 108 or permission of the department chairperson.

**BIO 242 Ecosystem**

**Ecology 5 ch - 3 sh**

**BIO 243 Ecosystem Ecology Laboratory**

Principles and concepts pertaining to the ecosystem. Introduction to local terrestrial and aquatic habits. Consideration will include pertinent problems of wildlife management and conservation. Each student is required to participate in field trips and to complete a paper on some aspect of the field study. PREREQUISITES: BIO 104, 106, 108 or permission of the department chairperson.

**BIO/MAR 260 Invertebrate**

**Zoology 5 ch - 3 sh**

**BIO/MAR 261 Invertebrate Zoology Laboratory**

A study of the invertebrate phyla with emphasis on development, reproduction, structure, function, and classification of selected marine organisms. Laboratory and field experience will be given in collection, preservation and classification of the phyla. (Same as MAR 221: Invertebrate Zoology at Consortium, Wallops Island, Virginia.) PREREQUISITE: BIO 104 and 106 or permission of the instructor.

**BIO 264 Comparative Anatomy of the Vertebrates** 5 ch - 3 sh

**BIO 265 Comparative Anatomy of the Vertebrates Laboratory**

A comparative study of the diversity of organization of the organ systems in representative vertebrates. Lecture emphasis is placed on evolution and morphology with respect to function. Lab emphasis is on the comparative morphology of several representative vertebrates. PREREQUISITE: BIO 104 and 106.

**BIO 290 Environmental Field Study in Florida** 6 ch - 3 sh

**BIO 291 Environmental Field Study in Florida Laboratory**

A field study course open to both science and non-science majors. This course consists of an extended camping trip through selected areas of Florida to investigate the ecology of specific terrestrial, fresh water and marine habitats, floral and faunal systematics, and the geology of Florida at local and regional levels. Permission of the instructor is required. PREREQUISITE: 3 semester hours of Biology or permission of the department chairperson.

**BIO 298 HON: Seminar in Biotechnology** 3 ch - 3 sh

The focus of this course will be to examine various biotechnological advances in genetics and agriculture and to further study their impact not only on biological systems, but also on society. This course may not be used to satisfy Category IV B of General Education or to meet Biology degree requirements.

**BIO 302 Entomology** 5 ch - 3 sh

**BIO 303 Entomology Laboratory**

The biology of insects with emphasis on morphology, physiology and environmental relationships. Laboratory studies and a required insect collection are an integral part of the course. PREREQUISITES: BIO 104 and 106 or permission of the department chairperson.

**BIO 304 Bacteriology** 5 ch - 3 sh

**BIO 305 Bacteriology Laboratory**

A general study of pathogenic and non-pathogenic microscopic forms of life commonly encountered in biological work with special emphasis on etiology, epidemiology and immunology. Laboratory studies include methods of culturing and identifying representative forms. PREREQUISITES: BIO 104 and 106 and eight hours of CHM or by permission of the department chairperson.

**BIO 306 Food Microbiology** 5 ch - 3 sh

**BIO 307 Food Microbiology Laboratory**

A study of microorganisms commonly encountered in food systems including pathogens, spoilage organisms, and fermentation organisms. Laboratory studies include methods of isolating, culturing, enumerating, and identifying representative forms together with methods of sampling, fermentation, and microbial destruction. Two hours of lecture and three hours of laboratory per week. PREREQUISITE: BIO 224/225 or 304/305.

**BIO 310 Genetics** 5 ch - 3 sh

**BIO 311 Genetics Laboratory**

This course examines the fundamental principles of heredity. Topics include Mendelian inheritance, cell division, chromosome mapping, microbial genetics, population and evolutionary genetics, DNA structure and function, recombinant DNA techniques, the control of gene expression, moveable genetic elements and extranuclear genetic material. There are two hours of lecture and three hours of laboratory per week. PREREQUISITES: Six semester hours of Biology and MAT 105 or MAT 115 or by special permission of the department chairperson.

**BIO 312 Vertebrate Biology** 5 ch - 3 sh

**BIO 313 Vertebrate Biology Laboratory**

A study of the major vertebrate animals with emphasis on taxonomy, morphology, evolution, development, physiology and systematic relationship of vertebrate animals. Laboratories will involve identification, development, morphology and techniques for

preservation and collection.

PREREQUISITES: BIO 104 and 106.

**BIO 314 Animal Behavior** 5 ch - 3 sh

**BIO 315 Animal Behavior Laboratory**

A biological approach to the study of behavior emphasizing the neural mechanisms, ecology, and evolutionary history of a wide variety of behaviors of both invertebrates and vertebrates. The major topics covered include the structure and function of nerve cells and nerve circuits, comparative sensory physiology, orientation and navigation, feeding, animal communication, learning, and social behavior. The laboratory section of the course includes observational and experimental work in both lab and field. Two hours of lecture and three hours of lab per week. PREREQUISITES: BIO 104 & 106.

**BIO 316 Invertebrate**

**Biology** 5 ch - 3 sh

**BIO 317 Invertebrate Biology Laboratory**

The biology of freshwater, terrestrial and parasitic invertebrates. Emphasis is placed on anatomy, physiology, taxonomy, environmental relationships and importance to humans. Laboratory work is supplemented by local field trips. PREREQUISITES: BIO 104 and BIO 106.

**BIO 318 Embryology** 5 ch - 3 sh

**BIO 319 Embryology Laboratory**

Correlation of the major stages of development based on both the experimental and physiological aspects of embryology. Laboratory will consist of a microscopic study of frog, chick, pig and human development. PREREQUISITES: BIO 104 and 106.

**BIO 322 Population and Community Ecology** 5 ch - 3 sh

**BIO 323 Population and Community Ecology Laboratory**

Principles of population and community ecology. Population growth, regulation, structure and dispersal. Interspecies interactions. Biotic community concept, community analysis and species diversity. PREREQUISITES: BIO 104, 106 and 108 or permission of the department chairperson.

**BIO/MAR 326 Marine****Ecology 5 ch - 3 sh****BIO/MAR 327 Marine Ecology****Laboratory**

A study of the ecology of marine organisms, the relationships of plants and animals to the physical, chemical and biological factors and their zonation and community structure. Analysis of current issues in marine ecology will also be addressed. Laboratories will include classroom investigations of population and community relationships and a MANDATORY weekend field trip to Wallops Island, VA. PREREQUISITE: One year of college biology and MAR 110 recommended OR consent of the instructor.

**BIO 330 Histology 5 ch - 3 sh****BIO 331 Histology Laboratory**

The microscopic study of cells, tissues and organ system of the vertebrates. Laboratory will consist of microscopic study of prepared whole mounts and tissue sections. PREREQUISITE: BIO 104 and 106.

**BIO 332 Limnology 5 ch - 3 sh****BIO 333 Limnology Laboratory**

Detailed descriptions and analyses of the ecology of fresh-water ecosystems, permanent and intermittent; research procedures, pollution problems, cycles and successions, biota, management, and functional dynamics. Main emphasis will be on North American forms. Field work will include an individual report on a problem rather than collections only. PREREQUISITES: BIO 104, 106 and 108 or permission of the department chairperson.

**BIO 334 Medical****Parasitology 5 ch - 3 sh****BIO 335 Medical Parasitology****Laboratory**

The biology of parasitic protozoa, flatworms, roundworms, and arthropods of medical importance will be emphasized. The laboratory will focus on recognition and identification of selected local human parasites and those of extreme importance throughout the world. PREREQUISITES: BIO 104 and 106.

**BIO 336 Medical Micro-****biology 5 ch - 3 sh****BIO 337 Medical Microbiology****Laboratory**

An introduction to the concepts and clinical applications of immunology, medical mycology and medical parasitology. Emphasis is placed on structure, function, and identification of fungi and animal parasites. Emphasis is also placed on immunological mechanisms and diseases. PREREQUISITES: BIO 104 and BIO 106.

**BIO/MAR 340 Marine****Mammals 5 ch - 3 sh****BIO/MAR 341 Marine Mammals****Laboratory**

The distribution, population size, physiology, evolution, adaptations and ecological relationships of marine mammals will be studied with an emphasis on mammals of the Atlantic Ocean. This course will stress hands-on understanding of marine mammal physiology, behavior, population dynamics and species diversity. Laboratory and field work will include an extended off-campus field trip to facilities holding and/or studying marine mammals of the NE Atlantic Ocean. In addition, the laboratory portion of this course will emphasize data collection in the field, and subsequent analysis and presentation of the data through a required mini-research project. PREREQUISITES: Five courses in biology, and at least Junior class standing prior to the start of the course or permission of the instructor.

**BIO/MAR 344 Marine****Botany 5 ch - 3 sh****BIO/MAR 345 Marine Botany****Laboratory**

A study of marine and marine fringe plants of the Middle Atlantic Coast, their taxonomy, ecology, distribution, life histories, physiology, and economic status. Techniques of collecting, preserving, identifying and herbarium cataloging will be stressed. Exercises in plant ecology, deep core pollen analysis and marine microbiology will be included. (Same as MAR 342: Marine Botany at Consortium,

Wallops Island, Virginia.) PREREQUISITES: BIO 104, 108 or permission of the instructor.

**BIO 346 Molecular Biology 5 ch - 3 sh****BIO 347 Molecular Biology Laboratory**

A study of the metabolism of the cell, detailing the bio-synthetic pathways in regards to the production, conversion and utilization of energy. Laboratory work covers the use of laboratory equipment to reinforce the theories from lecture and familiarize the student with laboratory techniques. PREREQUISITES: BIO 104, 106, 108 and CHM 100, 102, 214, or by special permission of the department chairperson.

**BIO 350 Cell Biology 5 ch - 3 sh****BIO 351 Cell Biology Laboratory**

A comprehensive study of the cell cycle with emphasis placed on ultra-structure and function of biological membranes and cellular organelles. Laboratory designed to investigate patterns of cell growth and basic cell structure and function. Both protozoan and mammalian cell systems will be utilized. PREREQUISITES: BIO 104, 106, 108, CHM 214 or permission of the department chairperson.

**BIO/MAR 360 Anatomy of Marine****Chordates 5 ch - 3 sh****BIO/MAR 361 Anatomy of Marine****Chordates Laboratory**

A course designed to familiarize the students with the qualitative aspects of the speciation process; to lay the groundwork for understanding the basic and specialized structure of marine chordates; to trace the most obvious or important trends (and their functional significance) in the evolution of this basic structure in various vertebrate lines. The laboratories will be devoted in large part to a reasonably thorough dissection of representative marine vertebrates. PREREQUISITE: BIO 104, 106 or by permission of the department chairperson.

**BIO 365 Pathophysiology 3 ch - 3 sh**

A study of the mechanism by which disease occurs in living organisms, responses of the body to the disease

process and the effects of these pathophysiological mechanisms on normal function. **PREREQUISITES:** BIO 104, 106 and 234.

**BIO 370 Research in Biology 1 - 3 sh**

A course in laboratory and/or field study and library research on selected topics in Biology. A written proposal outlining the research project must be prepared utilizing established guidelines and submitted to the supervising faculty member and the Department Chairperson for approval. **PREREQUISITES:** Minimum of 18 sh in Biology, GPA of 2.50 or higher, and Junior or Senior standing.

**BIO 371 Selected Topics in Biology 3 sh**

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. **PREREQUISITES:** BIO 104, 106, 108 or permission of the department chairperson.

**BIO 380 Senior Seminar in Biology 2 ch - 2 sh**

This course is designed to provide a forum in which B.S. Biology majors may critically evaluate current trends and concepts in the biological sciences through the venue of student prepared seminars and term papers. It will also serve as a forum through which career opportunities for biologists are discussed. **PREREQUISITE:** Senior standing or permission of instructor.

**BIO 390 Internship in Biology 3 - 6 sh**

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized professionally oriented program which may assist in future career options may structure a work-study experience with a cooperating agency or organization. A written proposal outlining the internship experience must be prepared utilizing established guide-

lines and submitted to the supervising faculty member and the Department Chairperson. Departmental approval of the internship is required.

**PREREQUISITES:** Minimum of 18 sh in Biology, GPA of 2.50 or higher overall and in major, and Junior or Senior standing.

**BIO 398 Honors Supplementary Research 1 - 3 sh**  
See page 155.

**BIO 435 Advanced Genetics 3 sh**

Current knowledge of the nature, properties, transmission, interaction and variation of hereditary materials, and their significance for the development, expression and evolution of the characteristics of organisms. **PREREQUISITE:** BIO 310-311.

**BIO 440 Evolution 3 sh**

Various philosophies of evolutionism with major emphasis on plant and animal affinities. Use of taxonomic, chemical, genetic and paleontological evidences will be stressed.

**BIO 447 Immunology 3 sh**

Infectious diseases of man, their cause, treatment, and control with emphasis on the theoretical and practical aspects of antigen-antibody systems, serology, and antibiosis. **PREREQUISITE:** 3 s.h. in Microbiology.

**BIO 457 Systematic Entomology 3 sh**

Taxonomic characteristics of important insect families especially those of the major orders. Emphasis will be placed on species of environmental importance and those which illustrate biological concepts. (Not a field course.) **PREREQUISITE:** BIO 302 or permission of the department chairperson.

## BUSINESS

Completion of the lower division core requirements is a prerequisite for every 300 level College of Business course.

### **BUS 120 Principles of Business**

#### **Statistics 3 sh**

An introduction to statistical concepts with emphasis on their role in business decision making. Topics include measures of central tendency, sampling, hypothesis testing, regression and correlation analysis and probability distributions.

### **BUS 131 Business Law I 3 sh**

This course is a survey of legal principles found in transactions common in today's business world. The case study method will be employed and the following topics will be covered: torts, contracts, agency, employment, partnerships and corporations.

### **BUS 132 Business Law II 3 sh**

This course is an in-depth study of the law of commercial transactions. The case study method is used in the course and the Uniform Commercial Code is reviewed. Topics covered include personal property and bailments, sales, commercial paper, secured transactions, bankruptcy, real property, trusts, estates, and government regulation of business.

**This course is recommended for accounting and finance majors.**

**PREREQUISITE:** BUS 131.

### **BUS 171 Principles of Business Data Processing 3 sh**

This course provides an introductory experience in the use of the microcomputer for solving business problems. Classes are conducted in a microcomputer classroom using Intel 486 technology in a Novell network environment. Topics include MS-DOS, Windows, and Netware operating systems, and windows-based word processing, electronic spreadsheet and data base management applications software.

### **BUS 310 Microcomputer Business**

#### **Applications 3 sh**

This course focuses on the use of the microcomputer as a managerial tool, which facilitates the solution of complex business problems. Throughout the course the student will be presented with common business situations. The student will use the microcomputer to aid in the development of solutions to the situations presented. The situations presented will be general enough to apply to each of the disciplines within the College of Business. Though the specific software used may remain flexible, typically the student will be introduced to the advanced features of 1) microcomputer operating systems and 2) electronic spreadsheets. Additional software may include high level programming languages, data base management packages, accounting systems, and systems which provide access to stock quotes and financial information about public companies, as is appropriate based upon the situation being analyzed.

### **BUS 312 Microcomputer Database**

#### **Systems 3 ch - 3 sh**

This course teaches students how to create database applications for use in solving business problems that require the storing and retrieving of information. The course begins with an overview of essential concepts and a brief review of the software's standard mode of operation and then leads to the design and development of integrated business database systems. Employing the techniques of event-driven programming, the student designs objects and programs events for data entry, data editing, background processing, and displaying and printing of documents. In addition, the course examines various methods for interfacing with the non-technical end-user.

### **BUS 320 Advanced Business**

#### **Statistics 3 sh**

This course is specifically designed to emphasize the investigation and application of various advanced

statistical concepts useful for the solution of modern business and economic problems. Coverage areas include analysis of variances, multiple and curvilinear correlation and regression analysis, model building and residual analysis.

### **BUS 331 Legal Environment**

#### **of Business 3 ch - 3 sh**

This course is an introduction to the legal environment in which organizations and individuals find themselves. It views legal strategies in which the private and public sectors interact. Topics covered include overview of the legal process, jurisdiction, administrative agencies, securities regulation, antitrust, employment regulation, product liability and estates.

### **BUS 353 Management Information**

#### **Systems 3 ch - 3 sh**

This course provides a comprehensive study of management information systems in the contemporary business environment. Topics of study include computer and communication technologies, the current organizational environment, types of information systems (i.e. Transaction Processing Systems, Decision Support Systems, Group Decision Support Systems, Office Information Systems, Interorganizational Systems, Expert Systems, Artificial Intelligence, etc.), systems theory as a vehicle of analyzing and designing complex systems, systems analysis and design, and the operation, maintenance, and control of management information systems. Throughout the course emphasis is placed upon innovative uses of computer and communication technologies for competitive positioning and for restructuring of business processes. The student will be required 1) to demonstrate an understanding of the technical material by reviewing current periodicals and comparing the results of the review to the material presented in the text, and 2) to demonstrate an ability to apply theory by completing case studies. This course is designed primarily for non-

accounting majors; accounting majors may be admitted with permission of the dean. **PREREQUISITES:** BUS 171, MGM 300.

**BUS 379 Independent Study 1 - 3 sh**

Before registering, the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit.

**BUS 390 Internship in Business 3 - 6 sh**

An individual work-study experience in an approved commercial or institutional organization. Placement of a qualified student in an organizational setting which involves his/her area of interest, which provides student training and on-site learning, and prepares the person for business practice. Students shall complete at least 150 hours of internship involvement for 3 semester hour credit or 300 hours for 6 semester hour credit. Application should be made through the appropriate internship committee. If taken for three credit hours the course may be repeated in a subsequent semester for three additional credit hours. Total internship credit may not exceed 6 credits. **PREREQUISITE:** Completion of 80 credit hours prior to the commencement of the internship, completion of coursework appropriate to the internship's functional area, and a minimum grade point average of 2.75 or permission of the internship committee.

**BUS/NUR 400 Health Care Management 3 ch - 3 sh**

This course explores major issues, trends and changes occurring within the health care industry. An applied understanding of the specialized organizations such as health maintenance organization, clinics, long-term care institutions, home care services, laboratories, and outpatient units will be explored. The learner will examine the environment, changes in governmental regulations and societal change of the respective health care industry and the impact of those on the consumer. In addition, a study of the internal organizational issues

more specifically the clinical/operating activities unique to specific organizations will be examined. Emphasis will be placed on identifying managerial functions and issues in order to assist the health care system to adapt effectively. The management of human resources, and major managerial responsibilities will be studied. **PREREQUISITE:** Graduate level: Admission to MBA Program and completion of MGM 300 or a minimum of Senior Level Status plus completion of NUR 322/323/375.

## CHEMISTRY

**CHM 020 Introduction to Chemistry 4 ch - 3 sh**

**CHM 021 Introduction to Chemistry Laboratory**

An introduction to the principles of chemistry, including atomic theory, chemical reactions, chemical bonding, kinetic theory, stoichiometry, organic compounds, and nuclear reactions. The traditional topics will be related to contemporary problems. A laboratory course intended for the general education of non-science majors. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science majors.

**CHM 030 The World of Chemistry 4 ch - 3 sh**

**CHM 031 The World of Chemistry Laboratory**

The World of Chemistry is a course which includes 26 programs comprising the Annenberg/CPB series of the same name, with readings from an introductory chemistry text and other sources. The course introduces non-science students to chemistry, including its history, contributions to the contemporary world, and future directions. The programs include interviews with eminent chemists, on-site footage of superfund cleanup sites, and computer animation of molecular interactions. Topics include atomic structure and properties, molecular architecture, polymers,

environmental issues, and an introduction to organic and biochemistry. Laboratory exercises complement and illustrate the topics of the programs. Students may not take both CHM 020 and CHM 030. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

**CHM 040 Principles of Chemistry 5 ch - 4 sh**

**CHM 041 Principles of Chemistry Laboratory**

This course provides an introduction to the principles related to atomic theory, nuclear reactions, chemical reactions, periodic behavior, chemical bonding, kinetic theory, stoichiometry, pH: acids/bases and organic compounds. It is a laboratory course intended for students with majors that would benefit from a one semester college chemistry experience. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Sciences majors in the Departments of Biology and Physical Sciences.

**CHM 100-101 General Chemistry I 6 ch - 4 sh**

**CHM 101 General Chemistry I Laboratory**

**CHM 102 General Chemistry II 6 ch - 4 sh**

**CHM 103 General Chemistry II Laboratory**

First semester (100-101) The Structure and Behavior of Matter. Emphasis is on chemical arithmetic, chemical nomenclature, atomic theory and structure, periodic classification of elements, gas laws, valence, oxidation, reduction and equation writing. Possession of a hand held electronic calculator is required. Second semester (102-103) continues the first; acids, bases, ionization, equilibrium, and rates of reaction are also studied and applied. **PREREQUISITE:** High school algebra and chemistry or MAT 105. First semester is a prerequisite for the second semester.

**CHM 214 Organic Chemistry I** 7 ch - 4 sh  
**CHM 215 Organic Chemistry I Laboratory**  
**CHM 216 Organic Chemistry II** 7 ch - 4 sh  
**CHM 217 Organic Chemistry II Laboratory**

Concepts and principles of fundamental group chemistry are used in the study of reactions of organic compounds. Naming, preparation of and properties of compounds are stressed. The correlation of theory is demonstrated as laboratory skills are developed. PREREQUISITES: CHM 100-101 and 102-103; first semester is a prerequisite to second semester.

**ENV/CHM 220 Environment Analysis** 6 ch - 3 sh  
**ENV/CHM 221 Environment Analysis Laboratory**

This course provides information on modern methods of analytical chemistry utilizing as much as possible a "hands-on" approach. Attention will be paid to the operation of various pieces of analytical apparatus, their range of application, their advantages, and disadvantages, and to the physical or chemical phenomena which form the basis of the analytical method. PREREQUISITE: CHM 214-215.

**CHM 230 Quantitative Analysis** 8 ch - 4 sh  
**CHM 231 Quantitative Analysis Laboratory**

A study of the theories and principles involved in preparing and standardizing solutions and in analyzing chemical substances by gravimetric, volumetric, and instrumental procedures. PREREQUISITES: CHM 100-101 and 102-103.

**CHM 310 Biochemistry** 6 ch - 4 sh  
**CHM 311 Biochemistry Laboratory**  
The chemistry of proteins, carbohydrates, lipids and nucleic acids is covered. The nature and properties of enzymes, as well as the kinetics and control of enzyme catalysis, are discussed. Cellular metabolism is surveyed with emphasis on the

molecular basis of metabolic regulation. Finally, the topic of molecular genetics is considered with an introduction to recombinant DNA technology. PREREQUISITES: Two semesters of organic chemistry.

**CHM 312 Biochemistry II** 3 ch - 3 sh  
A course designed to continue the study of topics introduced in Biochemistry I, such as the metabolic pathways and their interconnection, and to treat, in detail, more advanced topics of Biochemistry and Molecular Biology. PREREQUISITE: CHM 310.

**CHM 314 Physical Chemistry I** 6 ch - 4 sh  
**CHM 315 Physical Chemistry I Laboratory**

**CHM 316 Physical Chemistry II** 6 ch - 4 sh  
**CHM 317 Physical Chemistry II Laboratory**

A study of the law of thermodynamics and their application to solutions and phase equilibria; chemical kinetics; electrochemistry; and an introduction to quantum chemistry (atomic and molecular structure); and statistical mechanics. PREREQUISITES: MAT 272, PHY 100-101 and 102-103 and three semesters of chemistry. First semester is prerequisite for the second semester.

**CHM 318 Advanced Biochemistry** 3 ch - 3 sh  
The course is designed to study the various biochemical processes of photosynthetic carbon dioxide fixation in higher plants and in photosynthesis bacteria. Also included is the effect of changing environmental conditions on photosynthesis. PREREQUISITE: CHM 310.

**CHM 320 Advanced Inorganic Chemistry I** 6 ch - 4 sh  
**CHM 321 Advanced Inorganic Chemistry I Laboratory**  
The application of physio-chemical principles to understanding structure and reactivity in main group and transition elements. Valence Bond, Crystal Field, VSEPR, and LCAO-MO will be applied to describe the

bonding in coordination compounds. Organometallic and bioinorganic chemistry will be treated, as will boranes, cluster and ring systems, and inorganic polymers. The laboratory will involve both synthetic and analytic techniques and interpretation of results. PREREQUISITES: CHM 100, 102, 214, 216, and 230.

**CHM 326 Advanced Organic Chemistry-Mechanisms** 3 sh  
The study of mechanisms of organic reactions is emphasized. Modern theory viewpoints are applied to problems in organic chemistry. PREREQUISITES: CHM 214-215 and 216-217 or consent of the instructor.

**CHM 330 Organic Qualitative Analysis** 7 ch - 3 sh  
**CHM 331 Organic Qualitative Analysis Laboratory**

A study of theory and practice in systematic identification of organic compounds: separation, purification, criteria of purity, physical properties, functional group analysis, preparation of derivatives. Instrumental analysis is emphasized as well as classical methods. PREREQUISITE: 2 semesters of Organic Chemistry.

**CHM 340 Instrumental Analysis** 8 ch - 4 sh  
**CHM 341 Instrumental Analysis Laboratory**

This course involves the study of electromagnetic spectra, polarography, polarimetry, electroanalyses, refractometry, differential thermal analysis, nuclear chemistry, and other specialized topics. PREREQUISITE: Four semesters of chemistry.

**CHM 351-353 Selected Topics in Chemistry** 1 - 3 sh  
Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in chemistry. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations,

field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 hours credit.

**CHM 370 Research in Chemistry** 1 - 3 sh

This will involve laboratory and library research on selected topics. PREREQUISITES: CHM 100-101 and 102-103, two additional semesters of Chemistry and the consent of the staff members. Clock hours as required.

**CHM 380 Senior Seminar in Chemistry** 2 sh

This course consists of readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Chemistry. Required of all Liberal Arts students majoring in chemistry.

**CHM 390 Internship in Chemistry** 1 - 4 sh

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements. PREREQUISITE: Junior and Senior standing and approval of department head.

**CHM 398 Honors Supplementary Research** 1 - 3 sh  
See page 155.

## COMMUNICATION DESIGN

**CDE 101 Visual Thinking** 6 ch - 3 sh

The study of idea development as it applies to the graphic communicator. A variety of idea generating techniques are explored with emphasis upon quick visual exercises to stimulate fresh thinking. PREREQUISITES: ART 021, Drawing I; ART 022, Drawing II; ART 031, Two-Dimensional Design and ART 032, Three-Dimensional Design, or with permission of the Communication Design Faculty.

**CDE 135 Letterforms** 6 ch - 3 sh

The student will study the form of the major letter styles of the English alphabet. The styles are presented in chronological order from old-style Roman to contemporary styles. These styles will be rendered in practical and hypothetical problems. The exercises will include calligraphic lettering with pen and brush, comp built-up lettering, calculating size in relation to design structure. PREREQUISITES: ART 021, ART 022, ART 031, ART 032 or with permission of the CD Faculty.

**CDE 141 Visual Translation** 6 ch - 3 sh

The study and practice of techniques for representing visual ideas. A variety of tools, both traditional and contemporary, will be used in developing graphic layouts for presentation. PREREQUISITES: CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking.

**CDE 151 Illustration Techniques** 6 ch - 3 sh

This course is designed to provide the student with a knowledge of the graphic illustration techniques used in professional illustration. The materials and medias in illustration will be explored, and the student will begin to learn how to construct an illustration and which concepts will communicate most effectively. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design; FAR 151 Intro to Life Drawing or permission of the Communication Design Faculty.

**CDE 230 Typography** 6 ch - 3 sh

A study of the principles of designing with type, including type history, and technological advancements in typesetting. There is special emphasis on type selection, specification, and creative typographic design solutions. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design and ART 032 Three-Dimensional Design, or with permission of the Communication Design Faculty.

**CDE 238 Graphic Design I** 6 ch - 3 sh

A study of the fundamentals of graphic design as applied through symbology and the interaction of word and picture and the juxtaposition of type and image. PREREQUISITES: CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking; CDE 141 Visual Translation.

**CDE 239 Graphic Design II — Editorial Design** 6 ch - 3 sh

The study of design as it relates to magazines, newspapers, and periodicals. Emphasis will be placed on the entity of the publication, which could include covers, content pages, special sections or supplements, feature stories and articles. PREREQUISITES: CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking; CDE 141 Visual Translation; CDE 238 Graphic Design I.

**CDE 240 Production Processes** 6 ch - 3 sh

The study of graphic reproduction processes facilitating effective presentation of art for letterpress, offset lithographic and gravure printing, as well as skills related to producing art for reproduction. PREREQUISITES: having completed all sophomore CDE requirements as specified in the curriculum.

**CDE 241 Advertising Design I** 6 ch - 3 sh

This course is a study of the fundamentals of advertising, the breakdown of roles within an advertising agency, and the function of the advertising designer relative to this hierarchy.



Emphasis will be placed on accurate communication of the advertiser's message through appropriate selection of concepts, words and visuals which reflect strategy, positioning and brand personality. **PREREQUISITES:** CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking; CDE 141 Visual Translation.

#### **CDE 242 Advertising**

##### **Design II 6 ch - 3 sh**

Advertising Design II is a continuation of the study and development of advertising. Emphasis is placed on creative solutions that are "on strategy" regardless of the media. **PREREQUISITES:** CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking; CDE 141 Visual Translation, CDE 241 Advertising Design I.

#### **CDE 250 Historical Survey**

##### **of Graphic Design 3 sh**

The historical development of graphic communications as applied through graphic design, including typography, advertising design and illustration, from pre-historic times to the 20th century. Emphasis is on the search to give visual form to ideas and concepts and to bring order and clarity to information.

#### **CDE 252 Illustration I 6 ch - 3 sh**

Illustration I is the study of the fundamental building blocks of Illustration. A variety of concepts and compositional forms illustrators use will be explored. **PREREQUISITES:** CDE 151 Illustration Techniques or with permission of C.D. faculty.

#### **CDE 253 Illustration II 6 ch - 3 sh**

This course delineates the different markets available to the illustrator. The student will learn how to market an illustration portfolio and will continue with specific problems simulating real illustration jobs. Copyright, self promotion and pricing illustrations will also be discussed. **PREREQUISITES:** CDE 151 Illustration Techniques and CDE 252 Illustration I or with permission of the Communication Design Department.

#### **CDE 326 Advertising**

##### **Design III 6 ch - 3 sh**

Advertising Design III is a continuum of the study of advertising with emphasis on the total campaign. **PREREQUISITES:** CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking; CDE 141 Visual Translation; CDE 241 Advertising Design I; CDE 242 Advertising Design II.

#### **CDE/FAR 330 Animation 6 ch - 3 sh**

This course provides the opportunity for gaining rudimentary skills in the creation of non-computerized animation. While the emphasis is upon the production of animations, the origins of the art form will be explored and the renaissance in independent animation will be examined. **PREREQUISITES:** ART 021, ART 022, ART 031.

#### **CDE 342 Graphic Design III —**

##### **Corporate Identity 6 ch - 3 sh**

The study of development of a corporate identity program as it is applied in various ways to fulfill a company's business needs. **PREREQUISITES:** CDE 135 Letterforms; CDE 230 Typography; CDE 101 Visual Thinking; CDE 141 Visual Translation; CDE 238 Graphic Design I; CDE 239 Graphic Design II.

#### **CDE 352, 353, 354 Illustration Studio I, II, III 6 ch - 3 sh**

The student will concentrate on one area of illustration; and the development of a consistent, personal style will be emphasized. Individualized expression will be encouraged, and a number of stylistically related works will be created for a portfolio. Repeatable up to 9 s.h., not more than 3 s.h. per semester. **PREREQUISITES:** CDE 151 Illustration Techniques; CDE 252 Illustration I; CDE 253 Illustration II or with the permission of the Communication Design Faculty.

#### **CDE 359-373 Communication Design Workshops 2 or 4 sh**

The Workshop is comprised of several subjects to supplement the students' major interest. Specific subject offerings to be used for the workshop will be: Drawing for Illustration, Campus

Graphics, Art of the Book, Animation, Art of Humor, Satire, and Caricature, Natural Science Illustration, Package Design, Fashion Illustration, Advanced Production Processes, Airbrush Techniques, Designing with Multimedia, Computer Illustration, Advanced Typography, Illustration in the Third Dimension, Advanced Computer Layout, Poster Design and Restaurant Graphics. Selected subjects are taught in half semester units, either the first or second half of a semester. Each workshop subject taken has a value of 2 credits. **PREREQUISITE:** Satisfactory completion of all courses leading to Senior status in Communication Design or by approval of the instructor.

#### **CDE 374 Portfolio Seminar 6 ch - 2 sh**

A review of the student's communication design experiences relative to establishing a senior portfolio for professional purposes. This course is to serve as a culmination of all work done in courses taken previously. Offered in half semester unit only. **PREREQUISITE:** Satisfactory completion of all courses leading to Senior status.

#### **CDE 375 Selected Topics in Communication Design: Graphic Design 6 ch - 3 sh**

A course permitting specialized or advanced subjects, not available in other courses, to be offered as occasion warrants. Topics may be in any aspect of graphic design, advertising design, or illustration and may require studio work, research, or travel. **PREREQUISITES** may apply in some cases.

#### **CDE 377, 378, 379, 380 Independent Study in Communication Design**

Independent study involves individual pursuit and self-determination in Communication Design studio area not being offered by the university. **PREREQUISITE:** permission for up to 12 s.h. Limit 3 s.h. per semester.

#### **CDE 392 Field Experience in Communication Design**

This course is designed to provide educational opportunities not provided

in the University structure. Further explanation should be obtained from the Chairperson. Variable credits 1 to 16 semester hours. Non-repeatable.

**CDE 394 Communication Design Internship 40 ch - 10 sh**

Internship provides the senior student concentrating in either Graphic Design, Advertising Design or Photography (Illustration excluded) with professional experience in an area design advertising or photography firm. The experience will be 40 hours per week for seven and one-half weeks. Seniors must make application for this course and have a 3.0 QPA in specific courses within their concentration. The course Production Processes must be included in the average for Graphic Design and Advertising Design concentrations. No other full semester daytime course may be scheduled during the internship semester.

**CDE 399 Student Exhibition 0 sh**

This student exhibition is a requirement for graduation. All BFA degree candidates in Communication Design participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

**COMPUTER AND INFORMATION SCIENCE**

**CIS/MAT 112 BASIC Programming 3 sh**

This course is designed to help the student develop sound programming methodology using the BASIC language. An algorithmic approach and top-down design are presented in the solution of problems. Topics include: one and two dimensional arrays, processing string data, subroutines, functions, data files, sorting and searching and matrices. Not applicable towards the Mathematics or CIS major.

**CIS 128 Computing — An Overview 3 sh**

A comprehensive overview of computer science that presents a thought-provoking introduction to the key issues and concepts of this important discipline, including machine architecture, data storage, data manipulation, operating systems, algorithms, programming languages, software engineering, data structures, file structures, data base structures, artificial intelligence, and theory of computation.

**CIS/MAT 135 Computer and Information Science I 3 sh**

An introduction to computer components; algorithmic design and the constructs of structured programming; elementary data types and data operations; programming in a high level language; one-and-two dimensional arrays; subroutines and top-down, modular, step-wise programming; computer solution of several numerical and non-numerical problems. PREREQUISITE: MAT 105 or its equivalent.

**CIS/MAT 136 Computer and Information Science II 3 sh**

This course extends the topics developed in CIS/MAT 135. Also covered are: concepts of algorithmic analysis; string processing; recursion; search and sort methods; and simple data structures. A sizeable project involving the university's computing resources will be undertaken. PREREQUISITE: CIS/MAT 135.

**CIS 235 Assembly Language Programming 3 sh**

Computer components and organization, representation of numbers and characters, instruction codes, machine language programming, assembly systems, input-output; subroutines; macros. PREREQUISITE: CIS 136.

**CIS 236 Computer Organization and Hardware 3 sh**

Systems hardware and software, combinational logic — logic circuits and logic technologies, sequential logic, register transfer logic, arithmetic unit. PREREQUISITES: MAT 224 and either CIS 235 or permission of the instructor.

**CIS 263 Programming Language: COBOL 3 sh**

This course provides an advanced introduction to the COBOL programming language. In addition to the elementary features of COBOL, students will learn the use of tables, reports and control breaks, sequential and ISAM files, SORT and SEARCH verbs and use these features in substantial programs. PREREQUISITE: CIS 136.

**CIS 280 Cooperative Internship 6 sh**

Supervised industrial experience at the level of apprentice programmer. Available only to CIS majors. PREREQUISITES: Substantial completion of the required courses in the CIS major and the concomitant courses. All arrangements for an internship are to be made through the Mathematics/Computer Science Department, and approval by both advisor and department chairperson are necessary. (12 weeks of full-time employment)

**CIS 301 Object Oriented Paradigm: Techniques in Object-Oriented Programming & Applications 3 sh**

This course presents the main concepts and components involved in object-oriented development and technology. It presents a comprehensive methodology for program development. The course deals with finding an object-oriented approach to analysis, design, and programming. PREREQUISITE: CIS 136.

**CIS 310 Procedure Oriented  
Programming Languages 3 sh**

Basic concepts and special facilities in higher level programming languages, including scope of declarations, storage allocations, data structure variety, binding time of constituents, and control organization with emphasis on programming in several representative languages. PREREQUISITE: CIS 136.

**CIS 335 Data Structures 3 sh**

Basic concepts of data; linear lists, strings, arrays and orthogonal lists; representation of trees and graphs; storage systems, structures, allocation and collection, multi-linked structures; symbol of tables and searching techniques; formal specification of data structures, data structures in programming languages and generalized data management systems. PREREQUISITE: CIS 136.

**CIS 336 File Management  
Techniques 3 sh**

An examination of the basic structures used in external storage files and the techniques to manage those files. Basic file system organization; external storage devices; common file structures, sequential, indexed, indexed-sequential, direct, and VSAM files, tree structured files, list structured files, file systems, sorting files, file protection, file system evaluation. PREREQUISITES: CIS 263 and CIS 335.

**CIS 337 Design and Analysis  
of Algorithms 3 ch - 3 sh**

This course examines how the design and analysis of algorithms are inter-related. Various design techniques including Divide and Conquer, Backtracking, Dynamic programming, Greedy Method will be studied. Amortized analysis of algorithms especially in the context of self-adjusting data structures will also be studied. The concept of solvability and intractability of problems will also be introduced through the theory of NP-completeness. PREREQUISITE: CIS 335 or permission of the instructor.

**CIS 343 Operating Systems 3 sh**

This course is an introduction to the basic software components of an operating system. Topics include process management; storage management; processor management; auxiliary storage management; evaluation of an operating system's performance; networks; operating system security; case studies of particular operating systems. PREREQUISITE: CIS 236.

**CIS 347 Artificial Intelligence 3 sh**

This is an introduction to theory and techniques of designing programs to perform "Intelligent" tasks. Algorithms, heuristics and strategies will be discussed and applied to areas of current AI research. Topics covered will include Church's Thesis, state-space search, search strategies, theorem proving, planning, natural language processing. PREREQUISITE: CIS 136.

**CIS 348 Artificial Intelligence II 3 sh**

A deeper study of Artificial Intelligence, building upon CIS 347. Topics included will be expert systems, design and development, induction and machine learning, intelligent control systems, query systems, textual analysis, and other areas of current AI research. PREREQUISITE: CIS 347.

**CIS 354 Information Systems:  
Theory and Practice 3 sh**

It is strongly recommended, though not required, that CIS 354 and 355 be taken as a two-semester sequence. Characteristics of on-line information systems; file and data base design and development considerations; concepts and techniques of information organization, storage and retrieval; problems of simultaneous access, file security and recovery. PREREQUISITE: CIS 136.

**CIS 355 Information Systems:  
Analysis and Design 3 sh**

Study of the methods of structured systems analysis and design through the vehicles of the case study and a system development project. Insofar as possible, projects will employ the

concept of modular integration of software system components. PREREQUISITE: CIS 354.

**CIS 356 Introduction to Data Base  
Management Systems 3 sh**

An introduction to data base concepts; data models and data normalization; data languages, DBMS facilities; an examination of the three fundamental system types; hierarchical, network, and relational specification and design of query functions; file organization, management, and security; an examination of some of the more common DBMS; the use of a DBMS in exercises. PREREQUISITE: CIS 136.

**CIS 361 Finite Automata & Formal  
Languages 3 sh**

An introduction to finite state automata and regular expressions; the Myhill Nerode theorem and the minimization of finite automata; context free grammars, the Chomsky normal form; the Greibach normal form, and push-down automata; properties of context free languages; Turing machines; computability and the halting problem, the Chomsky hierarchy; deterministic context free languages and LR(k) grammars. PREREQUISITES: CIS 310 and MAT 225.

**CIS 362 Introduction to Compiler  
Design 3 sh**

An introduction to formal grammars and languages. Parsing and ambiguity; BNF and syntax graph descriptions; finite state grammars and recognizers; lexical analysis and symbol tables; context free languages and parsing techniques; error recovery; techniques of machine-independent code generation. The review and modification of a small language interpreter and the review of a small compiler are major components of the course. PREREQUISITES: CIS 310 and MAT 225.

**CIS 370 Selected Topics in Computer  
and Information Science 3 sh**

Seminar in advanced topics of computer and information science; content will vary depending upon interests and needs of the students. May be repeated once for additional

credit. PREREQUISITE: Consent of the student's advisor, instructor and department chairperson.

**CIS 372 Independent Study and/or Projects in Computer and Information Science 1 - 6 sh**

This course involves independent study in some area of computer and information science under the direction of a CIS staff member. This study can be made in any of the areas of artificial intelligence, automata theory, business information systems, computer aided design, computer assisted instruction, computer graphics, computer mechanisms and devices, computer systems, computer telecommunications, computer typesetting, information retrieval, linguistic processing, mechanical languages, numerical analysis, programming theory, or switching systems and logical design. A student may register for this course more than once up to a maximum of six semester hours of credit. PREREQUISITES: Consent of the student's advisor, instructor, and department chairperson.

**CIS 378 Introduction to Computer Graphics 3 sh**

This course includes the generation, transformation and display of computer-generated images, line generation algorithms, graphics, primitives, display files, two and three dimensional transformations, segmenting, windowing, clipping, and an introduction to basic interactive techniques. PREREQUISITE: CIS 136.

**CIS 379 Seminar in Computer Graphics 3 sh**

This course, which is a continuation of CIS 378, will examine geometric models, raster algorithms, the representation of three dimensional curves and surfaces, and techniques for displaying visual realism, such as: removing hidden lines and surfaces, shading and coloring. Additional contents may vary depending on the interests of the instructor and students. PREREQUISITE: CIS 378.

**CIS 380 CIS Cooperative Internship II 6 sh**

(15 weeks of full-time employment) Continuing supervised industrial experience in computer programming and related areas. Available only to CIS majors. It is expected that in this internship the student will function more independently and engage in projects of greater complexity than those of CIS 280. All arrangements for a cooperative internship are to be made through the Mathematics/Computer Science Department, and approval by both advisor and department chairperson are necessary. PREREQUISITES: CIS 280 and substantial completion of all CIS major and concomitant courses.

**CIS 385 Computer and Information Science Seminar 3 sh**

This course if taken no earlier than the student's sixth semester satisfies the senior seminar requirements for the CIS major. The course is designed to integrate the student's work in the CIS major and to provide opportunity for the student to engage in a significant project to structure and apply CIS content and procedures. PREREQUISITES: Substantial completion of the CIS major, including all required courses.

**CIS 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**CIS 411 Local Area Networks 3 ch - 3 sh**

This course deals with the theory, implementation and administration of Local Area Networks. It is also concerned with the mechanisms by which Local Area Networks are extended. A dedicated file-server based LAN will be the main instructional tool. PREREQUISITES: CIS 136 and CIS 235 or unconditional admission to the Graduate program in CIS or permission of instructor.

**CIS 426 Computer Architecture 3 ch - 3 sh**

This course deals with the study of design of those aspects of a computing system which are visible to the programmer at various machine levels. These include instruction sets, data type representation, I/O mechanisms, and memory addressing techniques. The operational units and their interconnections which result from the architectural specifications will be studied. Specific topics include memory hierarchies, pipelining, RISC vs. CISC, superscalar processors, and microprogramming. Up-to-date examples which illustrate the topics will be used. PREREQUISITES: CIS 136 and CIS 235 or unconditional admission to the Graduate program in CIS or permission of instructor.

**CIS 471 Data Communications 3 ch - 3 sh**

This course deals with the data communications as it occurs in accordance with the OSI seven layer model for data communication. Topics such as signaling, encoding, error detection, flow control, data transmission, routing, connection and dialog management, data compression, security and applications are discussed. In addition LAN and WAN topics, including TCP/IP, are discussed. PREREQUISITES: CIS 136 and CIS 235 or unconditional admission to the Graduate program in CIS or permission of instructor.

## CRAFTS

### **CFT 010 A Survey of Crafts 3 sh**

This course is a survey of the crafts beginning with origins, historical impact, craft guilds, craft movements, and resurgence of crafts in contemporary society. Emphasis will be placed on four basic craft areas: clay, fibers, metal, wood, with an overview of other significant crafts. This course may be taken by non-craft majors and used as a general education elective.

### **CFT 110 Craft Design 6 ch - 3 sh**

This course is an initial exploration of design concepts and techniques related to basic craft processes. Emphasis is placed on individual production in a variety of materials. Students are required to produce craft objects in a minimum of four craft areas.

### **CFT 121 Ceramics I 6 ch - 3 sh**

This course is a basic introduction to the clay medium, fire, earth, and water. The manipulative techniques of pinch, coil, slab, and wheel will be emphasized. Activities will reflect an awareness of traditional as well as contemporary approaches to ceramics.

### **CFT 131 Weaving I 6 ch - 3 sh**

Basic weaving techniques are developed through the use of the four-harness loom, as well as simple weaving devices.

### **CFT 141 Non-Loom Fabric Structures I 6 ch - 3 sh**

Basic structures of non-loom fabrics include major single and multi-element construction and various processes of surface embellishment. Ancient and modern techniques are studied.

### **CFT 151 Wood Design I 6 ch - 3 sh**

Fundamentals of woodworking techniques and furniture design are studied, including fabrication, simple joinery and finishing. Use and care of machine and hand woodworking tools are included.

### **CFT 161 Fine Metals I 6 ch - 3 sh**

Experiences are centered around the creation of jewelry and metalcrafts. Emphasis on fundamental techniques leads to an experimental use of metals, semi-precious stones, and other materials appropriate to the construction of jewelry, holloware and metal sculpture.

### **CFT 210 Applied Design for Crafts 6 ch - 3 sh**

This course explores advanced three-dimensional design concepts as they apply to crafts. Emphasis is placed on the complex systems of design as they relate to designing specific objects for functional applications. Investigation of the structural aspects of design, as well as current technological developments in materials and processes is stressed. PREREQUISITE: ART 032 Three-Dimensional Design.

### **CFT 221 Ceramics II 6 ch - 3 sh**

This advanced exploration of the clay medium builds on the skills acquired in Ceramics I. The relationship of technique to concept will be explored with an emphasis on craftsmanship. Both functional and non-functional clay objects will be produced. PREREQUISITE: CFT 121 Ceramics I.

### **CFT 231 Weaving II 6 ch - 3 sh**

Advanced weaving includes techniques appropriate for two-, four- and multi-harness looms, stemming from basic techniques developed in Weaving I. Emphasis is placed upon individual design techniques and the development of personal approaches to weaving. PREREQUISITE: CFT 131 Weaving I.

### **CFT 241 Non-Loom Fabric Structures II 6 ch - 3 sh**

Advanced techniques and complex fabric structures are investigated and developed. The student focuses upon aesthetic concepts appropriate for fibers and the resultant construction. PREREQUISITE: CFT 141 Non-Loom Fabric Structures I.

### **CFT 251 Wood Design II 6 ch - 3 sh**

The course offers advanced study in woodworking techniques and furniture design which include inlay, lathe turning, and various joinery techniques. Care and maintenance of machinery are included. PREREQUISITE: CFT 151 Wood Design I.

### **CFT 261 Fine Metals II 6 ch - 3 sh**

The creation of unique pieces of jewelry and metal objects becomes the primary emphasis of this course. Advanced techniques of construction and ornamentation will be studied. Areas to be explored by the student include enameling, holloware, prong settings, repousse (chasing). Works of historic and contemporary significance will be studied. PREREQUISITE: CFT 161.

### **CFT 268 Enameling 6 ch - 3 sh**

This course will introduce the fundamental skills and techniques of vitreous enamel. In addition to the basic and traditional techniques, the student will explore an experimental approach with a contemporary direction emphasizing aesthetics, conceptual, and formal concerns. Finished pieces may include, but are not limited to, objects of adornment, vessels, and objects as statement. This course may be used by Fine Metal majors in place of CFT 361, 362, 363, 364, or 365. Repeatable up to 6 semester hours.

### **CFT 321, 322, 323, 324, 325 Ceramics Studio I-V 6 ch - 3 sh**

Further advanced study of the ceramic medium is undertaken with an emphasis on concentration in areas of the student's choice. Coursework includes research and experimentation which culminate in the resolution of both technical and conceptual concerns. Technical and conceptual demonstration/concerns will be addressed in a lecture seminar format. (Repeatable up to 15 sh with 3 sh maximum per semester). PREREQUISITES: CFT 121 and 221 Ceramics I and II.

**CFT 331, 332, 333, 334, 335****Weaving Studio I-V 6 ch - 3 sh**

Individual advanced studio experiences include work on standard four- and multi-harness looms as well as primitive weaving devices. The course allows the student to enlarge a vocabulary of weaving techniques and to concentrate upon areas of special interest. Conceptual, technical and critical development in weaving is emphasized within the development of a personal style. PREREQUISITE: CFT 131 and CFT 231.

**CFT 341, 342, 343, 344, 345****Non-Loom Fabric Structures Studio I-V 6 ch - 3 sh**

Individual studio problems in non-loom fiber and fabric constructions offer the advanced student an opportunity to pursue interests in complex two- and three-dimensional forms. Production problems for the fiber artist are considered. (Repeatable up to 15 sh with a 3 sh maximum per semester.) PREREQUISITES: CFT 141 and CFT 241 Non-Loom Fabric Structures I and II.

**CFT 351, 352, 353, 354, 355****Wood Design Studio I-V 6 ch - 3 sh**

Further advanced study in woodworking techniques and furniture design techniques is provided with emphasis on concentration in areas of the student's choice. Work includes research and experimentation of advanced joinery, lathe turning and veneering. A study is made of marketing, production costs and shop maintenance. (Repeatable up to 15 sh with a 6 sh maximum per semester.) PREREQUISITES: CFT 151 and CFT 251 Wood Design I and Wood Design II.

**CFT 361-365 Fine Metals****Studio I-V 6 ch - 3 sh**

Advanced study in jewelry and metal design is undertaken with an emphasis on concentration in areas of the student's choice. Course work includes research and experimentation in advanced techniques. Conceptual, production and technical concerns are addressed. REPEATABLE up to 15 sh with a 6 sh maximum per semester. PREREQUISITE: CFT 161 and CFT 261.

**CFT 368 Product Research &****Development 6 ch - 3 sh**

This course will introduce students to the concept of marketing three-dimensional prototypes. The course will involve students in the research and development of new product lines. This course will give students a basic understanding of how inventive thinking and object making relate to marketing and selling of production samples. While the primary material used in making the prototypes will be wood, other materials may be used depending on the product being designed and developed. This course may be used by wood majors in place of CFT 352, 353, 354, or 355 or as an elective by other majors with permission of the instructor. Permission of the instructor will be necessary. One-time only.

**CFT 376 Advanced Studio****Techniques 12 sh**

This course stresses individual development in the area of specialization — Ceramics, Weaving and/or Non-Loom Fabric Structures, Wood Design, Jewelry and Metalcraft. The creation of unique pieces of work becomes the primary emphasis of this course. Advanced techniques will be explored. Works of historic and contemporary significance will be studied. This course provides for an intensive semester in the area of specialization requiring 6 ch per week of structured class activities with 18 additional hours of studio time per week; 90 class hours per semester; 270 studio hours per semester. PREREQUISITES: CFT courses in the selected specialization; CFT 121, 221, 321-325 Ceramics; CFT 131, 231, 331-335 Weaving; CFT 141, 241, 341-345 Non-Loom Fabric Structures; CFT 151, 251, 351-355 Wood Design; CFT 161, 261, 361-365 Jewelry and Metalcraft.

**CFT 377, 378, 379, 380 Independent****Study: Craft Studio 1 - 3 sh**

Independent study involves individual pursuit and self-determination in Fine Arts studio areas not being offered by the college. PREREQUISITE: Permission of the instructor and department

head. Repeatable up to 12 semester hours.

**CFT 381 Senior Craft****Seminar 3 ch - 3 sh**

This seminar includes an investigation of the nature of crafts and the influence of history on contemporary crafts. It also covers specific areas of professional concern, such as crafts economics, ethics and safety. During the semester, the students prepare their senior portfolio, compile a business proposal, deliver a teaching presentation to the class, develop a research paper, and assist in a joint student exhibition project.

**CFT 399 Student Exhibition 0 sh**

This student exhibition is a requirement for graduation. All BFA-Crafts degree candidates participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

## CRIMINAL JUSTICE

### **CRJ 010 Introduction to Criminal Justice 3 sh**

This is a course designed to provide the student with a broad, but basic, understanding of the criminal justice system. As the first course to be taken in the field of criminal justice, it will introduce the student to the roles of the police, prosecutor, criminal court, and treatment and correctional facilities within the system. With the completion of this course, the student will be familiar with the essentials of the criminal justice system. Prerequisite to all other courses in criminal justice.

### **CRJ/SOC 110 Contemporary Social Problems 3 sh**

Current problems of urbanization, personal pathology, drug use and abuse, mental illness, sexism, poverty and race are viewed within the context of social theory.

### **CRJ/POL/SOC 150 Law and Society 3 sh**

A survey of the major philosophies of law and the roles of law in society. The focus will be on how differing perspectives on the nature of law influence ideas about liberty, justice, responsibility and punishment.

### **CRJ 180 Criminal Law and Criminal Procedure 3 sh**

A study of procedural and substantive criminal law with special reference to the criminal law and procedure in Pennsylvania. Brief consideration is given to the Federal Laws of interest to local and state personnel in the criminal justice system of the Commonwealth of Pennsylvania.

### **CRJ 210 The Development of the Criminal Justice System 3 sh**

A history of the American criminal justice system from the colonial period through 1920. This course provides an overview of the origin, development, operation and impact of police, courts, law, corrections and the juvenile justice system. Major analytical

perspectives on American social control are described and analyzed. PREREQUISITE: CRJ 010 Introduction to Criminal Justice.

### **CRJ/SOC 220 Juvenile Delinquency 3 sh**

An analysis of the nature, type and incidence of delinquency within social milieu; an examination of the social characteristics of delinquents and the theories of delinquency, evaluation of the techniques of prevention and control by social agencies, and trends in delinquency.

### **CRJ 221 Juvenile Justice System 3 sh**

An introduction to the agencies and processes involved in handling juveniles who are suspected or accused of violating the law; examination of the principles upon which the juvenile justice system is based; and analysis of the differences in procedure with the adult justice system.

### **CRJ/SOC 245 The Sociology of Deviance 3 sh**

An examination of selected types of behavior that violate group norms (e.g., pornography, prostitution, suicide, etc.) Also covered are the processes through which deviance is learned and performed and the consequences of deviant behavior in terms of societal reactions.

### **CRJ/SOC 250 Criminology 3 sh**

An intensive review of the major theories of criminal behavior and their applications in crime prevention and control. Examination of leading crime types and criminal behavior systems.

### **CRJ/SOC 255 The Treatment of Offenders 3 sh**

A study of the major components of the criminal justice system involved in the treatment of offenders with accent upon innovative programs, experimental methods, and current treatment ideology.

### **CRJ/POL 260 The Judicial Process 3 sh**

An analytic study of the most significant facets of the entire American legal system. Basic legal theories, basic structure of federal and state court systems. Judicial reasoning process, the system of precedents and the most basic and important substantive areas of law will be considered.

### **CRJ/POL 312 Constitutional Law II: Civil Liberties 3 sh**

An analytical study of the U.S. Supreme Court cases interpreting clauses of the Constitution guaranteeing the rights of individuals; the meaning of the Bill of Rights and the Fourteenth Amendment. Attention is focused on recent decisions and their impact on the governmental system and society.

### **CRJ/POL 340 Municipal Government 3 sh**

The history, organization, structure, and functions of the major types of city government in the United States. Modern administrative techniques and methods are examined as they apply to municipalities. PREREQUISITE: POL 010 or permission of instructor.

### **CRJ 360/361 Theory and Methods in Criminal Justice I & II 3 sh each semester**

Analysis of contemporary research strategies employed to study the causes of crime and societal response as embodied in the justice system. The first semester is prerequisite to the second semester, nine semester hours in Criminal Justice, or permission of instructor.

### **CRJ 370 Selected Topics in Criminal Justice 3 sh**

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit. PREREQUISITE: CRJ 010 or permission of the instructor.

**CRJ 379 Independent Study 1 - 3 sh**

The student must confer, and reach agreement, with the faculty member who will guide the independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (*course content, evaluation procedures, reading list, etc.*) must be filed with, and receive the approval of, the faculty of the discipline involved and of the departmental chairperson.

**CRJ 380 Senior Seminar in Criminal Justice 3 sh**

An interdisciplinary seminar devoted to the analysis of selected contemporary issues in criminal justice and to the integration of the student's previous studies and experiences.

**CRJ 390 Criminal Justice Field Work 6 sh**

**CRJ 391 Criminal Justice Field Work Practicum**  
One semester of field experience and instruction in criminal justice associated with a two-hour weekly seminar designed to integrate theory and practice. Open only to seniors in Criminal Justice. (*Field work and practicum must be carried together.*)

**CRJ 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**DANCE****DAN 010 Introduction to Dance I 2 ch - 0.5 sh**

Introduction to basic dance techniques, modern, ballet, and jazz with preliminary work involving breathing patterns. Opportunities to respond to professional performance and to analyze student composition appropriate to this level.

**DAN 011 Introduction to Dance II 2 ch - 0.5 sh**

Further development of skills basic to modern ballet, and jazz dance with introductory experience in Laban's system of choreographic technique. Analysis of professional and student composition required.

**DAN 012 Conditioning for Dancers 2 ch - 0.5 sh**

This course introduces the student to a body conditioning technique specific to the needs of the dancer. The exercise methodology, widely used by professional dancers, includes work on the Reformer (based on the original patent of Joseph H. Pilates), mat work and basic concepts, with emphasis placed on proper form, alignment, and breathing. Satisfactory (pass/fail grade) completion of this course qualifies the student to use the Reformer equipment in Risley Hall on an on-going basis.

**DAN 015 Performing Dance Portmanteau I****DAN 016 Performing Dance Portmanteau II****DAN 115 Performing Dance Portmanteau III****DAN 116 Performing Dance Portmanteau IV****DAN 215 Performing Dance Portmanteau V****DAN 216 Performing Dance Portmanteau VI****DAN 315 Performing Dance Portmanteau VII****DAN 316 Performing Dance Portmanteau VIII 0.5 sh each**

The Performing Dance Portmanteau emphasizes the development of techniques and performance of ballet, jazz, and modern dance. Fall semester includes performances for parents and high school visitation days. Spring semester includes a spring concert and several off-campus performances and workshops. Rehearsals are three evenings a week and last three hours per session and are held both semesters. Auditions for dancers and special permission by instructor for production crew are required. One half semester hour of credit will be given upon completion of a semester. The Performing Dance Portmanteau may also be elected on a non-credit basis.

**DAN 022 Ballet I 4 ch - 2 sh**

Development of basic technique including barre, port de bras, center floor, adagio, allegro, and basic vocabulary. Discussion of anatomical principles with various styles and approaches to ballet. Analysis of the aesthetics of dance and student compositions appropriate to this level.

**DAN 033 Modern Dance I 4 ch - 2 sh**

Elementary modern dance technique and vocabulary with emphasis on acquisition of flexibility, strength and coordination. Analysis of the aesthetics of dance and student compositions appropriate to this level.

**DAN 044 Jazz Dance I 4 ch - 2 sh**

This course encompasses Elementary Jazz dance techniques and vocabulary with emphasis on isolation movements, stretches, and rhythmic combinations. Rhythmic experience through exposure to and choreography of simple routines is provided.

**DAN 106 Dunham Technique 4 ch - 2 sh**

Development of basic Dunham technique which encompasses authentic Afro-Caribbean dance. Discussion of the social, cultural, and historical implications of this dance form. Exposure to rhythmic experiences and choreography of simple routines provided.



**DAN 110 Dance Production 3 sh**

This course focuses on all aspects of dance production with the exception of choreography and the technique itself. Stage design, lighting, makeup, costuming and sound are among the subjects presented in this survey. Additionally, the business aspects of a dance performance are reviewed. Practical work on current dance productions, in addition to class meetings, are an important part of the course work.

**DAN 122 Ballet II 4 ch - 2 sh**

Development of intermediate technique and theory with emphasis on refinements necessary for adagio and allegro combinations, jumps, beats, and turns. Analysis of the aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Ballet I or by audition.

**DAN 133 Modern Dance II 4 ch - 2 sh**

Intermediate-level technique with theory of modern dance to develop space-time coordination and strength for more complex movement combinations. Analysis of the aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Modern Dance I or by audition.

**DAN 144 Jazz Dance II 4 ch - 2 sh**

Intermediate jazz dance techniques with emphasis on more complex jazz combinations, turns, adage movements, hops, jumps, and leaps are included in this course. Rhythmic experiences through exposure to more complex combinations and compositions are an intricate part of the course. PREREQUISITE: Jazz Dance I or by audition.

**DAN 165 Dance Alignment 4 ch - 2 sh**

This course acquaints the student with the means to achieve correct body alignment, the techniques needed to effectively develop the placement of a dancer's body.

**DAN 166 Kinesiology For The Dancer 3 sh**

Kinesiology For The Dancer focuses on the structure, function, and use of the dancer's body. The course will include skeletal and neuro-muscular analysis, information on the physiological systems that support human movement, the study of the types of injuries common to dance, and preventative measures and treatment modalities. Body types or somatypes, nutritional needs of dancers, and individual movement style will also be dealt with, including characteristic patterns in the use of time, space, and force. Throughout the course, the focus will be on relating kinesiological concepts to practical analysis of dance movement. PREREQUISITE: PED 101.

**DAN 211 Teaching Methodology in Dance 3 ch - 3 sh**

This course is designed to develop the knowledge and methodology for teaching the three major forms of Western theatrical dance i.e., ballet, modern dance and jazz dance. This course will acquaint the student with educational methods unique to each dance technique. Skills basic to organizing, planning and teaching a dance class will be presented in a context of diverse student populations and educational settings.

**DAN 222 Ballet III 4 ch - 2 sh**

Advanced technique and theory with emphasis on pointe, partnering, stagecraft and development of individual style. Analysis of aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Ballet II or by audition.

**DAN 223 Ballet IV 4 ch - 2 sh**

Advanced technique and theory with emphasis on pointe, partnering, stagecraft and development of individual style. Analysis of aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Ballet III or by audition.

**DAN 224 Ballet V 4 ch - 2 sh**

Advanced technique and theory with emphasis on pointe, partnering, stagecraft and development of individual style. Analysis of aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Ballet IV or by audition.

**DAN 227 Pointe I 4 ch - 2 sh**

This course acquaints the student proficient in ballet with the correct method of dancing on pointe, techniques designed to enhance strength and coordination needed to master this form. PREREQUISITE: Ballet III or by audition.

**DAN 228 Pointe II 4 ch - 2 sh**

This course concentrates on the development of pointe technique at the intermediate level. Analysis and practice of correct weight placement, body mechanics, and balletic style enables the student to acquire a higher level of skill when dancing on pointe. PREREQUISITE: Pointe I or by audition.

**DAN 229 Pointe III 4 ch - 2 sh**

This course develops pointe technique at the advanced level for the advanced ballet dancer. Performance quality is emphasized through the study of a classical variation on pointe. PREREQUISITE: Pointe II or by audition.

**DAN 233 Modern Dance III 4 ch - 2 sh**

Advanced-level modern dance technique and theory. Intensive work emphasizing musicality, improvisation and personal performance styles. Analysis of the aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Modern Dance II or by audition.

**DAN 234 Modern Dance IV 4 ch - 2 sh**

Advanced-level modern dance technique and theory. Intensive work emphasizing musicality, improvisation and personal performance styles. Analysis of the aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Modern Dance III or by audition.

**DAN 235 Modern Dance V 4 ch - 2 sh**

Advanced-level modern dance technique and theory. Intensive work emphasizing musicality, improvisation and personal performance styles. Analysis of the aesthetics of dance and student compositions appropriate to this level. PREREQUISITE: Modern Dance IV or by audition.

**DAN 239 Advanced Techniques and Improvisation 4 ch - 2 sh**

This course provides work at an advanced-professional level of technique, and includes intensive development of improvisational skill. Emphasis will be placed on integrating technical skill with creative response, analyzing a wide range of movement styles, and exploring the potential uses of improvisation in the professional setting.

**DAN 241 History of Dance I 3 sh**

This course acquaints the student with the historical development of dance from the earliest cultures to the 1800s. It is designed as a general survey of the role of dance in primitive cultures to formal ballet, exclusive of American influences and modern techniques.

**DAN 242 History of Dance II 3 sh**

This course acquaints the student with the historical development of dance from the 1800s to present day. It is designed as a general survey of the role of dance from the inception of ballet to post-modern technique.

**DAN 244 Jazz Dance III 4 ch - 2 sh**

This advanced jazz dance course includes both technique and theory. Intensive work emphasizing personal performance style, improvisation, musicality and stage projection is stressed. Special emphasis is placed on performance. PREREQUISITE: Jazz Dance II or by audition.

**DAN 245 Jazz Dance IV 4 ch - 2 sh**

This advanced-level jazz dance course includes both technique and theory. Intensive work emphasizing

personal performance style, improvisation, musicality and stage projection is stressed. Special emphasis is placed on performance. PREREQUISITE: Jazz Dance III or by audition.

**DAN 246 Jazz Dance V 4 ch - 2 sh**

This advanced-level jazz dance course includes both technique and theory. Intensive work emphasizing personal performance style, improvisation, musicality and stage projection is stressed. Special emphasis is placed on performance. PREREQUISITE: Jazz Dance IV or by audition.

**DAN 258 Partnering/Supported Adagio 2 ch - 1 sh**

An in-depth study of supported adagio, commonly referred to as partnering, as it is incorporated into ballet, modern and jazz technique.

**DAN 268 The Choreographic Process I 4 ch - 3 sh**

This course acquaints the student with the process of choreography; the techniques and tools needed to effectively articulate a dancer's intentions through movement. Evaluation of dance composition in relation to inception, choreographic tools, design, and accompaniment are explored through a series of movement experiences and presentations.

**DAN 269 The Choreographic Process II 4 ch - 3 sh**

This course provides the opportunity for further development of the skills, techniques and tools used in the process of choreography. Emphasis is placed on Effort-Shape theory, use of space, and the development of thematic structure.

**DAN 274 Labanotation 3 sh**

This course introduces the student to the basics of reading and writing movement in symbols, using the Labanotation System developed by Rudolf Laban. Emphasis is placed on reading skills, Motif Writing, and the beginning of Structured Description.

**DAN 275 Dance in the Musical Theatre 3 sh**

This course provides studio work in technique and choreography, and supplemental lectures exploring the role of dance in American musical theatre. Technique classes will explore such dance styles as jazz, tap, Afro-Caribbean, ballroom dance, modern and ballet; with lecture and discussion centering on the contribution of these styles to today's musical theatre.

**DAN 279 Dance Variations 2 ch - 1 sh**

An advanced study of dance in which the student learns variations of important works of famous choreographers in the areas of ballet, modern and jazz.

**DAN 290 Dance Production Practicum 1 sh**

This course is a study, through preparation, rehearsal, and performance, of the processes of dance production. Projects assigned by the instructor concentrate the students' study in one aspect of dance for a current live dance presentation. Assignments are possible in lighting, costuming, management or presentation. The course may be repeated up to a total of four credits provided assignments vary. PREREQUISITE: DAN 110 Dance Production.

**DAN 370 Selected Topics for Advanced Studies in Dance 3 sh**

Study of a specific area out of dance; e.g. character dance, the study of national dances as found in classical ballet, or jazz or Broadway dances. Analysis of the aesthetics of the advanced studies topics culminating with an in-depth student research project. PREREQUISITE: Ballet III, Modern Dance III or Jazz Dance III.

**DAN 380 Independent Study in Dance 1 - 3 sh**

Independent Study provides an opportunity for individuals to pursue scholarly activity in an area pertinent to the discipline of Dance not covered within a regularly offered under-

graduate course in Dance. Credit for the course may be scheduled for one to three semester hours in a single semester for no more than three credits of independent study overall. Permission of the faculty member instructing the independent study as well as that of the departmental chair of the degree program or certification area is required.

### **DAN 390 Internship in Dance 3 - 12 sh**

Upon approval of a cooperating agency, the student is placed in a situation in which practical professional experience can be acquired from some organization related to his career plans. Interested students should apply through their advisor. PREREQUISITES: Junior or senior status and recommendation of the Department of Health, Physical Education and Dance. Course may be repeated to a maximum of twelve credits.

### **DAN 391 Senior Synthesis 3 sh**

Senior Synthesis involves the preparation of a culminating project in dance, other than written research. This course includes, but is not restricted to, projects involving choreography, reconstruction, or any studio or performance based event. PREREQUISITES: Senior status and the recommendation of the department.

## **DEVELOPMENTAL ENGLISH**

### **DVE 000 Basic English 3 sh**

This course supplies the basics of language use — diction, grammar, syntax, usage and structure — to those students who demonstrate weakness in writing standard English. (This course does not satisfy the General Education English requirement in Composition.) Credit is recognized for satisfactory completion of Basic English, but that credit is not applicable to any requirements for a degree.

## **DEVELOPMENTAL MATHEMATICS**

### **DVM 000 Developmental Mathematics 3 sh**

This course provides a review of arithmetic and elementary algebra for students who need to improve their skills in these areas. Credit is recognized for satisfactory completion of Developmental Mathematics, but that credit is not applicable to any requirements for a degree.

## **DEVELOPMENTAL READING**

### **DVR 000 Developmental Reading 3 sh**

This course provides instruction in reading skills necessary for college work. Analysis of written materials in terms of modes of discourse, methods of development, and patterns of organization is stressed. Emphasis is on development of critical reading skills, improvement of comprehension, building of vocabulary, and development of reading rate flexibility. Credit is recognized for satisfactory completion of Developmental Reading, but that credit is not applicable to any requirements for a degree.

## **ECONOMICS**

### **ECO 011 Principles of Macro-economics 3 sh**

Basic economic concepts, national income, money and banking, role of the government, individual and business in capitalistic economy.

### **ECO 012 Principles of Micro-economics 3 sh**

Economic principles of input and output, and of income distribution. Basic concepts of international economics are included. PREREQUISITE: ECO 011.

### **ECO 150 Economic History of the United States 3 sh**

The factors and forces underlying the changes taking place as a young, primarily agricultural, country emerges as a wealthy and complex

industrial power. The role of government and of the individual. PREREQUISITES: ECO 011 and ECO 012.

### **ECO 201 Development Economics 3 sh**

Development Economics is a theory and policy oriented course that examines domestic and global aspects of the process of economic growth in third world countries and emphasis on growth experiences and strategies of selected countries as they relate to agrarian reform, industrialization, income distribution, foreign trade and employment. PREREQUISITES: ECO 011 and ECO 012.

### **ECO 205 Intermediate Microeconomics 3 sh**

Microeconomics is the study of the allocation of resources among competing uses in society. The analysis focuses on the implications of decision-making by individual economic units — consumers and firms — under alternative market structures. Required for Economics majors. PREREQUISITES: ECO 011 and ECO 012.

### **ECO 210 Intermediate Macroeconomics 3 sh**

Measurement and analysis of the levels of national income, employment, prices and interest rates; empirical and theoretical approaches to explaining and forecasting economic fluctuations; evaluation of the roles of fiscal and monetary policy, especially in the United States. PREREQUISITES: ECO 011 and ECO 012.

### **ECO 270 Comparative Economic Systems 3 sh**

A comparative analysis of the various types of economic systems, focusing on the United States, mainland China, Western Europe, Japan, the less developed countries, and the changing economies of the formerly communist nations. PREREQUISITES: ECO 011 and ECO 012.

**ECO 301 Industrial Relations 3 sh**

The broad field of industrial relations: the development of the labor movement, employment and unemployment, methods of settling industrial disputes and the role of labor in the economy including current federal and state legislation. PREREQUISITES: ECO 011 and ECO 012.

**ECO 310 Money and Banking 3 sh**

The structure and historical development of the monetary system of the United States and the role of money in determining the level of employment, production, and prices. Includes analysis of financial markets, financial intermediaries, and the Federal Reserve System with an emphasis on the theory and practice of monetary policy. PREREQUISITES: ECO 011 and ECO 012.

**ECO 315 Government and Business 3 sh**

The roles of government in an evolving, mixed economy with particular emphasis on efforts to preserve and promote competition; the analysis of Supreme Court rulings in antitrust; also conservation, consumer protection; investor protection, and research. PREREQUISITES: ECO 011 and ECO 012.

**ECO 320 History of Economic Thought 3 sh**

The evolution of economic ideas and methodology from ancient times to the present. Included are pre-scientific thought; the mercantilists and physiocrats; the classicists and neoclassicists; the historicists; the socialists; the contributions of the twentieth century. PREREQUISITES: ECO 011 and ECO 012.

**ECO 322 The Economics of Health and Medicine 3 sh**

A survey of economic theory applied to the use of resources in the health care system. The present system of health care delivery is examined with respect to achievement of social objectives, and policy for improvement is discussed. PREREQUISITE: ECO 012.

**ECO 325 The Economics of Law, Crime and Public Choice 3 sh**

An economic analysis of how and why society defines legal behavior as a background both to private and public resource allocation and to the criminal justice system. PREREQUISITE: ECO 012.

**ECO 335 Mathematical Economics 3 sh**

An introduction to the use of mathematical models in economics. The application of mathematical theorems and techniques to problems in economic theory and practice. Topics include neoclassical analysis, activity analysis, general equilibrium, and models of growth and fluctuation. PREREQUISITES: ECO 011, ECO 012, MAT 221 or equivalent.

**ECO 340 Managerial Economics 3 sh**

The application of microeconomic theory and elementary decision theory to managerial decision making and policy formulation. Topics include: The use of rudimentary statistical decision theory, forecasting, demand, costs, pricing, capital planning, and public sector decision making. PREREQUISITES: ECO 011 and ECO 012.

**ECO 345 Econometrics 3 sh**

The estimation and hypothesis-testing of economic models, principally using regression techniques. Topics include input-output analysis, time series analysis and simultaneous equations models. The uses and limitations of these models for economic forecasting are examined with the aid of computers. PREREQUISITES: ECO 011, 012 and either MAT 121, 140 or BUS 120.

**ECO 350 Public Finance 3 sh**

The revenues, expenditures, and debit operations of governments. Problems of financing the Federal Government are analyzed from the viewpoint of the economic effects of government fiscal policy. PREREQUISITES: ECO 011 and ECO 012, ECO 205 and ECO 210.

**ECO 360 International Trade and Finance 3 sh**

Economic efforts of trade among the nations; international monetary problems, determination of exchange rates, trade barriers, international agencies and agreements, and the economics of underdeveloped countries. PREREQUISITES: ECO 011 and ECO 012.

**ECO 370 Seminar in Current Economic Literature 3 sh**

The methodology of the practicing economist (historical, statistical, mathematical, case study, etc.) and additions to theory are examined through the reading and discussion of recent monographs and articles. Critical analysis is emphasized. PREREQUISITES: ECO 011 and ECO 012.

**ECO 379 Independent Study 1 - 3 sh**

Before registering, the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit.

**ECO 380 Senior Seminar in Economics 3 sh**

The course consists of readings and discussion and the preparation for the comprehensive examination in Economics. Required of all Liberal Arts students majoring in Economics. PREREQUISITE: Senior status.

## EDUCATION

### **EDU 100 Perspectives on American Education 3 sh**

The course will provide an introduction and overview to the philosophy, history, sociology, and organization of American education. The study of American education will stress the relationships among social, economic, and cultural forces affecting the development of public education; historical and philosophical perspectives will be investigated.

### **EDU 200 Student Activities 3 sh**

Major emphasis is upon the role that student activities play in the educational enterprise — a study of the nature and function of student activities — the managing of the activities program in the elementary and secondary school — detailed study of specific activities including organization, financial control, evaluation and legal responsibility. Student presentation and seminar method will be used.

### **EDU 225 The Role of the Teacher in Guidance Services 3 sh**

The history of guidance services will be presented to give the student background material. The foundations of counseling theories and techniques used in public school education will be defined. A study of the evaluative criteria used in school programs and their applications as supportive material to the classroom teacher will be explored.

### **EDU/SPU 245 Communication Disorders and the Classroom Teacher 3 sh**

This course is designed to enable the teacher to comprehend the stages of speech and language development in the child, to recognize typical speech and language problems, and to develop skill in motivating and guiding pupils in acquiring correct and effective habits of oral communication.

### **EDU 260 School and Community 3 sh**

A study of group and intergroup activities. Consideration is also given to the role of the individual in the group, to community interests, needs, resources, and problems, and to teacher responsibility in professional, social, religious, and civic affairs. Student participation in community activities is stressed.

### **EDU 326 Introduction to Middle Level Education 3 ch - 3 sh**

The philosophy, history, structure, and future direction of middle level education and how these topics relate to the characteristics of the young adolescent will be explored. Students will have the opportunity to explore the middle school concept, including curriculum and instructional strategies that are particularly appropriate for this age group. Observations in schools with culturally diverse populations and special needs students will target developmentally appropriate practice.

### **EDU 350 Diagnostic and Remedial Reading 3 sh**

Lecture, reading, demonstration and practice in procedures for identifying and treating common disabilities in word perception and comprehension. Brief introduction to etiology of severe disability. PREREQUISITES: ELU 201 or EDU 340, ECO 205 and ECO 210.

### **EDU 491 Tutoring Methods and Strategies for Literacy Volunteers 3 sh**

This course will prepare undergraduate/graduate students in various academic disciplines to perform volunteer literacy tutoring and community service. The course will feature instruction in various literacy strategies, tutoring methods, and materials, including Laubach, Orton-Gillingham, Language Experience Approach, and ESOL, combined with instruction in affective strategies such as building self-esteem, establishing a climate conducive to learning, and reducing anxiety in the adult learner. Students will be expected to commit 60 hours of lifetime service as volunteer tutors, 20 hours of which

will be evaluated during the semester in which the student is taking the course.

### **EDU 496 Multi-cultural Education 3 sh**

This course is designed to help pre-service and in-service teachers and other education professionals to design and implement effective teaching strategies that reflect diversity, and to derive sound guidelines for multi-cultural programs and practices. The life realities, needs, and aspirations of culturally different children and youth are analyzed. Sources of content will be scholarly writings, field investigations, and community resources in foreign countries or American subcultures. Students will be participant observers conducting ethnographic qualitative research in cultural settings different from the mainstream American macro-culture.

## ELEMENTARY EDUCATION

### **ELU 110 The Visual Arts Experience in Elementary Education (Required) 6 ch - 3 sh**

The visual arts experience is examined in relationship to the education of children — pre-school through middle school. Through involvement in a variety of art history, art criticism and art production processes suitable for children, students will focus on the relationship of the visual arts to general education in a multi-cultural society, to the developmental growth of children, and to current issues in art education.

### **ELU 120 Music for Elementary Schools (Required) 6 ch - 3 sh**

Designed to equip the elementary classroom teacher with the basic skills and methods for teaching music in the elementary school, the course emphasizes practical classroom experiences in singing, listening, playing, rhythmic, and creative activities.

### **ELU 130 Introduction to Early Childhood Education 3 sh**

A survey course focusing on early childhood educational continuum from infancy through age eight. Consideration will be given to historical backgrounds as well as existing programs and the research which supports them. Field experiences and observations in preschool programs, day care settings, nursery schools, kindergarten and primary classrooms are an integral part of the course.

### **ELU 201 Fundamentals of Reading Instruction I (Required) 3 sh**

An introduction to the reading process. Emphasis is placed on perception and reading, language-development and its relation to success in reading, understanding word structure and teaching the skills of word recognition in a variety of ways. Students study reading as a cognitive process. Should be taken in the sophomore year by those with reading as an area of concentration.

### **ELU 205 Science for Elementary Schools (Required) 3 sh**

Designed to provide the elementary teacher with a background for teaching science in the elementary school. Materials are selected from the various fields of science. PREREQUISITE: Biological and Physical Science requirements in general education.

### **ELU 207 Health and Physical Education for Elementary Schools (Required) 4 ch - 3 sh**

The scope and elements of school health and physical education in the elementary grades will be examined from the perspective of the classroom teacher. A holistic approach will focus upon the physical, social, psychological and intellectual factors which contribute to the well-being of the whole child.

### **ELU 231 Theoretical Foundations in Early Childhood Education 3 sh**

The course will focus on theories and principles of learning particularly appropriate to children through the age of 8. Students will be expected to compare and contrast the various learning theories and principles, develop procedures for utilization, and implement these procedures in field experiences. The developmental approach and Piaget's theories will be emphasized.

### **ELU 232 Curriculum in Early Childhood Education 3 sh**

A study of the continuity of curricular offerings from nursery school through the primary levels. Consideration will be given to the basis for curriculum choices in early childhood education. The implications of recent research upon the curriculum of early childhood education will be examined. Observations in a variety of school settings and planned involvement with young children are part of the course.

### **ELU 243 Teaching in the Urban Elementary and Middle Schools 3 sh**

This course will provide students with an awareness of the urban school

environment and competencies necessary for effective urban teaching. Specifically the course will investigate the urban community, schools and children. This investigation will then be used as a basis for exploring the role of the urban teacher in the decisions, strategies and techniques necessary for successful urban teaching.

### **ELU 251 Teaching the Culturally Different Child to Read 3 sh**

This course is designed to provide the elementary teacher with those cognitive and affective competencies required to teach effectively children who are classified as culturally different. PREREQUISITE: ELU 201.

### **ELU 252 Current Trends in Reading Instruction 3 sh**

This course will examine existing programs, experimentation programs, and major developments in the teaching of reading. Students will be provided with the theory and practice of reading programs. PREREQUISITE: ELU 201.

### **ELU 301 Fundamentals of Reading Instruction II (Required) 3 sh**

A continuation of study begun in Fundamentals of Reading Instruction I with emphasis on comprehension skills, teaching reading in content area subjects, understanding programs and processes and evaluating performance in reading. Students examine various materials of instruction in reading. A part of the professional semester block. PREREQUISITE: ELU 201.

### **ELU 302 Children's Literature (Required) 3 sh**

This course consists of a survey of important children's books, including winners of Newbery and Caldecott Awards, folk literature and poetry. The course encourages the wide reading of children's literature and provides opportunity for storytelling, the creating of materials to be used with children, and the reviewing of criteria used in the evaluation of children's books. A vital part of this course is the

emphasis on books about children from multi-cultural backgrounds. Where applicable the historical, political, philosophical and sociological backgrounds of education are blended into the ongoing study of children's books.

**ELU 303 Language Arts  
(Required) 3 sh**

Background material and techniques for teaching and evaluating skills in the many aspects of oral and written language arts — listening, speaking, usage, spelling, creative writing, handwriting: manuscript and cursive. A part of the professional semester block.

**ELU 304 Social Studies for  
Elementary Schools  
(Required) 3 sh**

A critical survey of the role of the social studies, based on concepts from the social sciences, for the elementary school. Analyses, objectives, teaching methods and materials, values clarification and social problems. Students are required to develop teaching units. A part of the professional semester block.

**ELU 306 Materials and Methods  
of Instruction (Required) 3 sh**

Teaching techniques, school and classroom management, lesson planning and materials as they relate to the various areas of the elementary curriculum. Students will be required to develop instructional materials and use them in instructional settings. A part of the professional semester block.

**ELU 308 Mathematics for Elementary  
Schools (Required) 3 sh**

This course is designed to prepare prospective teachers to teach mathematics to all children from pre-school to grade six. Instructional strategies appropriate for various stages of intellectual development will be examined. A part of the professional semester block. PREREQUISITES: MAT 101 and MAT 102.

**ELU 320 Evaluative Techniques  
for the Elementary Teacher 3 sh**

Focuses on all aspects of formal and informal assessment and appraisal of children in the elementary school. Students learn to understand and use the instruments of the four information gathering techniques: observation, inquiry, analysis, and testing. Achievement continuums, criterion referencing, competency assessment and curriculum imbedded testing are emphasized. Required (except for those students in dual certification programs in Special Education or Early Childhood Education).

**ELU 323 Techniques for Classroom  
Management and Discipline 3 sh**

The course will provide students with an in-depth analysis of current techniques for classroom management in the elementary school. Specific techniques for dealing with discipline problems and for preventing management breakdown will be examined. PREREQUISITE: Completion of Professional Semester or permission of the instructor.

**ELU 333 Communicative Skills  
in Early Childhood Education 3 sh**

The emphasis will be on teaching competencies needed to help a young child develop communication skills. Concept and vocabulary development techniques in preparation for reading and writing readiness are explored. Learning experiences will be prepared and presented for evaluation by the class.

**ELU 334 Instructional Strategies  
in Early Childhood Education 3 sh**

Instructional strategies appropriate for advancing the intellectual, social, emotional, and physical development of the young child will be examined in this course. Significant contributions of recent research focusing on teaching methods will be considered. Opportunities to develop a variety of teaching strategies and to use them in nursery, kindergarten, or primary school settings will be provided. Micro teaching will be available to the student.

**ELU 335 Evaluative Techniques  
in Early Childhood Education 3 sh**

The purpose of this course is to identify various ways used to study children, including observational techniques, teacher-made tests, standardized tests, and self-report techniques. Teacher-made assessments, record-keeping devices, and methods of marking and reporting pupil progress will be emphasized. Through field experience in a preschool setting, the student will conduct evaluative studies of children.

**ELU 351 Diagnostic and Remedial  
Reading 3 sh**

Students study causes and classification of reading disability cases, examine and administer tests of reading ability, determine needs and plan appropriate learning activities for disabled readers. Materials designed specifically for learning disabled children are pursued. PREREQUISITES: ELU 201 and ELU 301.

**ELU 360 Creative Activities in the  
Elementary School 3 sh**

The guidance of children in creative learning and expression. Emphasis is placed upon the child's needs to discover and create. The development of skills and refinements of taste needed for rich experience in art, music, and literature will also be discussed.

**ELU 370 Selected Topics in Elementary  
Education 1 - 3 ch — 1 - 3 sh**

An in-depth study of a topic that is of high immediate relevancy to elementary educators. Topics will vary depending upon interests of students and faculty, or the timeliness of the subject matter. The course content will normally change each time the course is offered. The course may be repeated for up to six credits provided the same topic is not repeated.

**ELU 380 Independent Study  
in Elementary Education 1 - 3 sh**

Independent Study is based on a student's pursuit of a subject in Elementary Education not covered within a regularly offered undergraduate course in Elementary Education. Students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall.

**ELU 390 Student Teaching and  
Practicum (Elementary I) 7 sh**

**ELU 391 Student Teaching and  
Practicum (Elementary II) 7 sh**

ELU 390 & 391 are segments of a single course which provides two full-time classroom experiences comprising an entire semester. Opportunities are provided for observations and participation in all activities related to teaching. The practicum, concurrent with student teaching, is a clearing house for the selection, organization, and presentation of proposed units, lessons, and other classroom related activities. In addition, it provides an opportunity for the discussion of problems that arise in the classroom. Students organize units of instruction and present them for evaluation by the group.

**ELU 412 Curriculum in the  
Infant-Toddler Period 3 sh**

Through research, discussion, practical application and critical thinking, the students will expand their knowledge and understanding of the child from birth to age three. Ideas and selected approaches will be introduced to increase the students' abilities to create an appropriate educational environment based upon sound child development principles.

**ENGINEERING**

**EGR 121 Engineering Drawing  
and Lettering 6 ch - 3 sh**

This course is an introduction to basic mechanical drawing emphasizing multi-view and pictorial drawing, dimensioning, space analysis, graphs and engineering standards. Lettering and experiences with various design tools and media will facilitate the development of the graphic communication skills for the engineer/draftsman/designer.

**ENGLISH**

**ENG 001, ENG 002  
English Composition I & II 6 sh**

(I) a review of the basic English language skills, together with extensive experience in reading and writing expository essays. (II): extension of the skills and techniques of ENG 001, with emphasis on writing critical analyses. ENG 001 is a prerequisite for all upper-division writing courses except ENG 231. Unless the high school record indicates unusual proficiency in writing, students are to take English 001 during their freshman year. (A writing clinic staffed by English faculty and selected students is open daily to any students desiring assistance in developing their writing skills.)

**ENG 005 English as a Second  
Language 3 sh**

This course, for students for whom English is not a native language, develops vocabulary, reading, and writing skills. It does not satisfy the English composition requirement. Grade: Satisfactory/Unsatisfactory.

**ENG 010 Introduction to  
Literature 3 sh**

A course designed to develop and intensify the student's aesthetic, intellectual, and emotional response to imaginative literature. Not applicable for English General Majors or Literature Minors.

**ENG 100 Principles of  
Literary Analysis 3 sh**

This course will examine basic literary terms and genres and their manifestation in the theme and form of selected works of poetry, drama, and fiction. Required for English General and Secondary Education/English majors, and Literature minors.

**ENG 101, ENG 102  
World Literature I & II 6 sh**

Intensive reading of selected masterpieces of world literature which reflect the evolution of human thought, to develop in the student the power of discrimination and the habit of evaluating. Either semester may be taken independently.

**ENG 103, ENG 104  
American Literature I & II 6 sh**

(I): representative writings from colonial times to the end of the Civil War. (II): representative writings from the end of the Civil War to the present. Particular attention is given to works which illuminate our history, our literary development, and our ideals. Either semester may be taken independently.

**ENG 111 The Bible as Story and  
Literary Source 3 sh**

A study, primarily, of Bible stories often alluded to in literature and, secondarily, of literary forms and techniques used in the Bible. The course is aimed at students who are not familiar with Bible stories. The approach is non-sectarian, emphasizing the literary, archetypal, and spiritual importance of the stories through the ages.

**ENG 113, ENG 114  
British Literature I & II 6 sh**

(I): representative writings from Anglo-Saxon times to the close of the 18th century. (II): representative writings from the Romantic era to the present. Aims are broader knowledge of the development of British letters in relation to historical movements, and intelligent appreciation of significant works. Either semester may be taken independently.



**ENG 120 Current Themes in Literature:****Apocalypse Now! 3 ch - 3 sh**

This course will study the world's end and millennial fever in fiction from H.G. Wells to Stephen King, from the Age of Aquarius to Alien Nation.

**ENG 121 Current Themes in Literature:****Science Fiction In The 20th Century 3 sh**

Critical analysis, interpretation, and evaluation of modern science fiction, novels and shorter works.

**ENG 122 Current Themes in Literature:****The Literature of Peace 3 sh**

An analysis of representative peace-oriented writings of various cultures from ancient times to the present as evidenced in poetry, drama, fiction, and non-fiction.

**ENG 123 Current Themes in Literature:****American Writers and the Environment 3 sh**

A socio-cultural critical approach to representative works in American literature that contemplate nature or are concerned with the environment.

**ENG 124 Current Themes in Literature:****American Folklore 3 sh**

This course provides students with an introduction to the major genres of folklore, with an emphasis on American folklore. The relationship between folklore and written imaginative literature is explored. Each student is required to engage in one major collection project.

**ENG 125 Current Themes in Literature:****Detective Fiction 3 sh**

Critical analysis, interpretation, and evaluation of novels and stories of detection.

**ENG 141 Literature and****Film 4 ch - 3 sh**

Designed to give the student an opportunity to consider the similarities and dissimilarities between literature and film. The focus for such a consideration is several literary works that have been made into films or upon which films have been based. Specific attention is given to structural

aspects common to both, such as imagery, language, theme, and point of view. Critical theories relevant to literature and film provide the student with additional areas of study.

**ENG 220 Introduction to English****Linguistics 3 sh**

A comprehensive study of American English grammar, comprised of two aspects: (1) A brief, critical review of traditional Latinized grammar; (2) A comprehensive introduction to phonology, morphology, and the grammars — generative and transformational.

**ENG 225 Teaching of Adolescent****Literature 3 sh**

This course will include the study of several classic literary works commonly read by high school students but will focus more intensively on the study of modern and contemporary works written for adolescents.

**ENG 230 Advanced Composition 3 sh**

Advanced experience in writing provided through the preparation of articles, reviews, digests, and critical papers employing narrative, expository, descriptive, and argumentative techniques. PREREQUISITE: ENG 001.

**ENG 231 Honors Composition 3 sh**

A first course within the Honors Program that focuses on critical reading, writing, and thinking within the arts and sciences. Satisfactory completion of this course fulfills the university requirement in composition and the prerequisite for all other upper-division writing courses. This course does not replace ENG 230.

**ENG 234 Ethnic American****Literature 3 ch - 3 sh**

This course is an introduction to selected literary writings by 20th-century Asian-American, Native American, and Latino authors, with a critical survey of major themes as well as narrative techniques and strategies.

**ENG 236 Black American Literature:****Poetry/Drama 3 sh**

An exploration of the poetry and drama of Black Americans, beginning with Phillis Wheatley and William Wells Brown as precursors of the Black literary tradition, and ending with, as the focal point, contemporary poets and dramatists.

**ENG 237 Black American Literature:****Novel 3 sh**

An exploration of the prose writings of Black American novelists and essayists, beginning with the slave narratives as prototypes and ending with, as the focal point, the latest contemporary novels.

**ENG 240 History of the English****Language 3 sh**

The origins and development of English; the nature and sources of the British and American vocabularies.

**ENG 251 Old Testament****Literature 3 sh**

Literary analysis and interpretation of themes, types, characterization, and genres in the Old Testament of the Bible, using a non-dogmatic, non-sectarian approach.

**ENG 252 New Testament****Literature 3 sh**

Literary analysis and interpretation of themes, types, characterization, and genres in the New Testament of the Bible, using a non-dogmatic, non-sectarian approach.

**ENG 270 Short Story 3 sh**

The development of the short story as a distinct literary type traced by means of wide reading and close analysis.

**ENG 275 Archetypal Women****in Myth and Literature 3 sh**

An introduction to myth criticism which applies the method to literary works in which women are central dramatically and symbolically.

**ENG 276 Nineteenth Century****Women's Literature 3 sh**

This course covers selected literary texts by nineteenth-century British and American women writers. It also focuses upon gender-specific conflicts and changing perceptions about the nature, roles, and rights of women during this important era in the history of literature by women.

**ENG 277 American Women****in Literature 3 sh**

This course explores archetypes, stereotypes, myths, and characteristics of women in American literature. Students study various critical techniques as these techniques affect the woman's role in works written by both men and women. This examination includes the essay, the short story, the diary, poetry, the novel, and the play.

**ENG 281 Traditional Literature****in Africa 3 sh****ENG 282 Contemporary African****Literature 3 sh**

The poetry, prose, and drama of the folk, and the literature of the intelligentsia and upper classes, studied and analyzed, with the understanding that while there are common elements, there are many languages and cultures from which the literature comes. A study of one particular group, its history and problems, will be helpful to the student who would understand the richness and complexity of an African culture, particularly one established well for many centuries. Either semester may be taken independently.

**ENG 321 Early and Medieval****Literature 3 sh**

Readings in translation of the Anglo-Saxon epic, lyric, and reflective poetry; later medieval types such as the romance, the satire, and the allegory. Special emphasis will be placed on Chaucer.

**ENG 325 Seventeenth Century****Literature 3 sh**

The writings of Browne, Burton, Donne, Marvell, Bunyan, and Milton studied within the framework of English life from 1600 to 1675.

**ENG 327 Eighteenth Century****Literature I 3 sh**

Poetry, neoclassical literary criticism, and drama from 1660 to 1780 with consideration of central issues and prevailing attitudes reflected therein; emphasis on major writers.

**ENG 328 Eighteenth Century****Literature II 3 sh**

The novel and miscellaneous prose from 1660 to 1789 with consideration of related social, political, and philosophical matters; emphasis on major writers.

**ENG 330 Shakespeare on the****Stage 3 sh**

A workshop, offered only in summer sessions, designed to supplement courses in Shakespeare with reference to the staging and performance of Shakespeare's plays. The course is based on reading and examining selected plays through the use of videotapes, films, and available staged performances at summer theatres.

**ENG 331 Shakespeare's Earlier****Plays 3 sh**

A study of a selection of Shakespeare's earlier plays, including among others, *The Comedy of Errors*, *Richard II*, *Richard III*, *Henry IV Parts I and II*, *Henry V*, *Romeo and Juliet*, *Much Ado About Nothing*, *As You Like It*, and *Twelfth Night*, and of the social, historical, and literary background necessary for their understanding and appreciation. Recordings, movies, and, when possible, "live" and TV productions are utilized.

**ENG 332 Shakespeare's Later****Plays 3 sh**

A study of a selection of Shakespeare's later plays including among others, *Hamlet*, *Othello*, *King Lear*, *Macbeth*, *Troilus and Cressida*, *the Winter's Tale* and *The Tempest*, and of the social, historical, and literary background necessary for their understanding and appreciation. Recordings, movies, and, when possible, "live" and TV productions are utilized.

**ENG/SPE 335 The Rhetoric****of Literature 3 sh**

Cooperative investigation of the relationships between literature and rhetoric. Selected works of major literary figures will be examined with reference to their persuasive power and their ability to produce attitude change.

**ENG 337 HON: Gothic/Horror****Literature 3 sh**

This course examines the history of Gothic literature from the late-eighteenth century Gothic romance to southern American Gothic fiction and the recent Gothic revival. Representative works, their distinguishing features, their recurrent themes and motifs, their social, psychological and rhetorical implications are also examined.

**ENG 338 HON: Crime and Punishment****in Literature 3 sh**

This is a course in which students participate in critical analysis and interpretation of an international selection of classic works of literature from Greek drama to modern absurdist stories that create the theme of crime and punishment.

**ENG 340 Romantic Movement 3 sh**

The works of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background, biography, and critical doctrine.

**ENG 343 Nineteenth Century Studies:****Poetry 1840-1890 3 sh**

The major Victorian poets, Browning, Tennyson, and Arnold, are studied in detail, and certain minor poets are examined.

**ENG 344 Nineteenth Century Studies:****Prose 1840-1890 3 sh**

Study of representative prose works in the novel and the essay.

**ENG 350 The Times of Melville****and Whitman 3 sh**

A study in depth of Melville and Whitman as creative forces in the shaping of American poetry and prose. Consideration is given to the

cultural background from which their works derive.

**ENG 351 American Literary Realism:  
1865 - 1910 3 sh**

This course will focus on an analysis of Regionalism, Realism, and Naturalism in American literature between 1865 and 1910. Special attention will be paid to the works of Mark Twain, Henry James, Kate Chopin, Stephen Crane, and New England Regional writers.

**ENG 352 The World of William  
Faulkner 3 sh**

An examination of Faulkner's major novels and several of his short stories in the context of the history of America and the aesthetic, political, and philosophic movements prevalent when they were written.

**ENG 353 Development of the  
Drama 3 sh**

A comprehensive study of world drama from its beginnings to the late 19th century.

**ENG 355 Development of the  
Novel 3 sh**

The evolution of the world novel traced from its beginnings to World War I.

**ENG 360 Contemporary British and  
Irish Literature 3 sh**

British and Irish poetry, drama, and prose fiction since 1914 analyzed in form and content with special attention to the relationship of literary technique and the social and moral comment.

**ENG 363 Modern Drama 3 sh**

Reading and analysis of selected plays from the time of Ibsen to the present.

**ENG 364 Modern Poetry 3 sh**

Representative poetry published since 1870 in England and America as the basis for a study of forms, aspects, and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life.

**ENG 365 Modern Novel 3 sh**  
Studies of the world novel since  
World War I.

**ENG 367 Symbol and Theme in  
20th Century American  
Literature 3 sh**

Symbol and theme as used by representative major American poets, dramatists, and novelists of the Twentieth Century.

**ENG 370 Seminar: Selected Topics  
in English 1 - 3 sh**

A course for students who wish to study the work of a particular literary figure or a special topic in language, literature, or communications in depth. Students may register for this course more than once up to a maximum of six semester hours of credit, so long as they do not repeat the same topic; however, they may take no more than three hours of credit in any given semester. PREREQ-UISITE: permission of the instructor.

**ENG 371 Independent Study 1 - 3 sh**

A course for students who wish to study the work of a particular literary figure or a special topic in language, literature, or communications in depth. Students may register for this course more than once, up to a maximum of six semester hours of credit, so long as they do not repeat the same topic. PREREQUISITE: permission of the instructor and department chairperson.

**ENG 379 Literary Criticism 3 sh**

Major theories of literary criticism traced from Aristotle to modern times. Critical essays and selected American and English masterpieces will be used as models and prototypes.

**ENG 380 Senior Seminar  
in English 3 sh**

A study of special topics in English and American Literature in preparation for the comprehensive examination. Required of all students in the B.A./English General program.

**ENG 398 Honors Supplementary  
Research 1 - 3 sh**  
See page 155.

**ENG 438 Major Modern  
Dramatists 3 sh**

This course is a brief critical survey of British and American drama of the twentieth century with primary focus on the work of such major figures as Shaw, O'Neil, O'Casey, Miller, Williams, Albee and Pinter.

**ENG 455 Major Modern Poets 3 sh**

This course is a critical examination of the poetry of major twentieth-century British and American poets such as Crane, Eliot, Frost, Hopkins, Pound, Stevens, Thomas, Williams, and Yeats.

**ENG 457 Major Twentieth Century  
American Novelists 3 sh**

The American novel from Dreiser to Bellow. Special attention is given to Hemingway and Faulkner.

**ENG 460 Classical Influences  
on Literature 3 sh**

The influence of Greek and Roman classics on English and American Literature traced from the Renaissance to the Twentieth Century. The Classical readings include epic, tragedy, comedy, and poetry.

**ENG 470 Selected Topics  
in English 3 sh**

This course will deal in depth with a specific issue or area in English or a literary figure not covered or only covered briefly in another graduate English course. The course may be taken up to two times, provided that the selected topic is different.

**ENG 493 The Twentieth Century  
British Novel 3 sh**

Comparative studies of selected works of Joyce, Lawrence and Woolf. Analysis of symbol and archetype as structural and thematic device. Rhetorical comparison of elements of style.

## ENVIRONMENTAL SCIENCE

This is an interdisciplinary program, staff of which is drawn from several academic departments. The program is monitored by the Environmental Science Committee. For further information about the Environmental Science Program contact the Coordinator of Environmental Science.

### **ENV 100/101 Introduction to Environmental Science Lecture and Lab** 5 ch - 3 sh

A multi-disciplinary introduction to environmental problems and their potential solutions. Lecture and laboratory work are supplemented by field trips.

### **ENV/GEL 210 Environmental Geology** 5 ch - 3 sh

#### **ENV/GEL 211 Environmental Geology Laboratory**

A study of the relationship between man and his geological habitat. Problems that society faces in using the earth are examined, including case histories of natural disasters and human interactions with earth materials. Geo-chemical cycles, geological materials, and land use will be examined as they relate to environmental quality. PREREQUISITE: GEL 100-101 Physical Geology.

### **ENV/CHM 220 Environmental Analysis** 6 ch - 3 sh

#### **ENV/CHM 221 Environmental Analysis Laboratory**

This course provides information on modern methods of analytical chemistry utilizing as much as possible a "hands-on" approach. Attention will be paid to the operation of various pieces of analytical apparatus, their range of application, their advantages, and disadvantages, and to the physical or chemical phenomena which form the basis of the analytical method. PREREQUISITE: CHM 214-215.

### **ENV/BIO 222 Environmental Biology** 5 ch - 3 sh

#### **ENV/BIO 223 Environmental Biology Laboratory**

An introduction to the causes and symptoms of environmental deterioration. The effect of ecological perturbations on ecosystems, especially the biota. Field experiences are an integral part of the course. PREREQUISITES: BIO 104, and either 106 or 108 or permission of the department chair.

### **ENV/BIO 224 Applied Environmental Microbiology** 5 ch - 3 sh

#### **ENV/BIO 225 Applied Environmental Microbiology Laboratory**

This is an introductory microbiology course emphasizing prokaryotic functional anatomy, metabolism, and genetics. Principles of diseases and a basic introduction to immunology are included which provide a background for an overview of a variety of common diseases. Applied and environmental aspects of food, soil, and water microbiology are stressed in both the lecture and the laboratory. The laboratory is an integral portion of the course and emphasizes laboratory techniques, physiological testing, food and water analysis, and identification of unknowns. There are two hours of lecture and three hours of laboratory per week. PREREQUISITES: BIO 104/105 and BIO 106/107.

### **ENV 380 Senior Seminar in Environmental Science** 2 sh

An interdisciplinary seminar devoted to the analysis of selected environmental problems. PREREQUISITE: Senior standing or permission of the Environmental Science Committee.

### **ENV 398 Honors Supplementary Research** 1 - 3 sh

See page 155.

## FINANCE

Completion of the lower division core requirements is a prerequisite for every 300 level College of Business course.

### **FIN 340 Investments** 3 ch - 3 sh

Survey of various financial instruments including common stocks, bonds, stock options, and futures. Overview of various security selection techniques. Introduction to risk, portfolio theory, the capital asset pricing model, and the market efficiency. Use of U.S. Equities database to analyze any of more than 7,000 companies. The course is rigorous and approaches the subject from the point of view of investment practitioner. PREREQUISITE: FIN 350.

### **FIN 350 Financial Management** 3 ch - 3 sh

Discussion of financial managers' roles and objectives as well as their operating environment. Analysis of firm's financial statements to evaluate its performance and forecast its financial needs. Measurement of risk and its impact on the required rate of return. Use of the time value of money in making financial decisions and valuing stocks and bonds. Management of working capital including cash, credit, inventory and short-term financing. Analysis and evaluation of long-term investment decisions using various capital budgeting techniques and financing these projects with long-term sources of capital e.g. common stocks, preferred stocks, and bonds. Application of spreadsheet modelling to financial management decision-making.

### **FIN 351 Personal Financial Planning** 3 sh

An integrated approach to the management of financial resources. Topics include investments, insurance, estate planning, and retirement planning. The course also involves the development of financial plans. This is an advanced course designed to prepare individuals for professional examinations in the financial services industry.

**FIN 355 Investment Portfolio****Management 3 sh**

This is an advanced course in theory and application of portfolio management techniques. Topics include active and passive portfolio management, portfolio performance evaluation, bond portfolio management, portfolio insurance and hedging using derivative securities, and international diversification. Students also manage and evaluate stock portfolios.

PREREQUISITES: FIN 340 and MAT 221.

**FIN 356 Working Capital****Management 3 ch - 3 sh**

A course focusing on the theoretical and practical aspects of managing the short-term assets and liabilities of a wealth-maximizing firm. This course utilizes lectures, cases, and spreadsheet exercises. Topics include: cash management, credit and collections, working capital financing, and inventory management. PREREQUISITE: FIN 350.

**FIN 360 Financial Markets****and Institutions 3 ch - 3 sh**

The structure of deposit and non-deposit institutions, asset and liability management, the demand and supply of loanable funds, the government and financial markets, international financial markets. PREREQUISITE: FIN 350.

**FIN 363 Intermediate Financial****Management 3 sh**

Development of a comprehensive understanding of the Cost of Capital, Capital Budgeting including Capital Budgeting under risk, Capital Structure, Dividend Policy, Long Term Financing including Convertible Securities and Leasing. The course will be structured around case studies and application of spreadsheets for analyzing the cases. PREREQUISITES: FIN 350 and MAT 221

**FIN 365 Multinational Financial****Management 3 sh**

This course focuses on the international dimensions of financial management. All of the traditional areas of corporate finance are

explored from the perspective of a multinational corporation; including working capital management, capital budgeting, cost of capital, financial structure, funds acquisition, investment evaluation, and risk analysis. This course emphasizes the unique decision variables faced by multinational firms, including: multiple currencies with exchange rate changes, differing tax systems, multiple money markets, cross-border restrictions, varying international diversification opportunities, segmented capital markets, and political risks such as nationalization or expropriation. PREREQUISITE: FIN 350.

**FIN 370 Financial Institutions****Management 3 ch - 3 sh**

The internal organization of commercial banks, asset and liability management, cost of capital, credit analysis, lending practices and policies, trust services, and international banking are topics discussed. PREREQUISITE: FIN 360.

**FIN 380 Senior Seminar****in Finance 3 sh**

The course is designed to enhance the student's understanding of theoretical concepts of financial management. It will also enhance financial decision-making capability via in-depth research of selected topics in finance, discussion of current finance literature, more advanced case analysis, and a financial simulation game. During the course of the game, students are required to make capacity expansion, capital budgeting, stocks and bonds issuance and retirement, dividend payment, and working capital management decisions. To facilitate these decisions, students are expected to prepare spreadsheets for calculating cost of capital, doing capital budgeting and ratio analysis, and preparing proforma income statement, balance sheet, cash flow statement and cash budget for each period. PREREQUISITE: FIN 363.

**FINE ARTS****FAR/MIC 021 Microcomputer****Graphics 3 sh**

This course is designed to allow students to explore the graphic capability of a microcomputer. No programming experience is required. Topics will include: word processing, object-based drawing, Postscript-based drawing, scanned images, paint-based drawing and desktop publishing. This course is not applicable anywhere in Category IV of General Education. No prerequisites.

**FAR 111 Introduction to****Painting 6 ch - 3 sh**

This course involves the student with an introductory experience in painting. The course includes working with a variety of painting materials and techniques. Experiences will also include basic problems in color and composition. PREREQUISITES: ART 021 Drawing I, ART 022 Drawing II, ART 031 Two-Dimensional Design, ART 032 Three-Dimensional Design or permission of the instructor.

**FAR 120 Graphic Drawing Techniques****for the Designer 6 ch - 3 sh**

This course is to aid the student in developing and presenting ideas in the design and craft areas. Drawing with and without instruments, emphasis will be placed upon perspectives and rendering techniques.

**FAR 131 Introduction to Watercolor****Painting 6 ch - 3 sh**

Development of visual expression with transparent, opaque, and mixed water soluble media. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design, ART 032 Three-Dimensional Design; or permission of the instructor.

**FAR 141 Introduction to****Printmaking 6 ch - 3 sh**

Introduction to the manipulation of materials and techniques of printmaking to create or transfer visual images. Intaglio, lithographic monoprint, relief, stencil, rubbing, embossing, and printing processes

will be explored. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design; ART 032 Three-Dimensional Design; or permission of the instructor.

**FAR 151 Introduction to Life Drawing 6 ch - 3 sh**

Drawing from the nude model, either male or female, with a realistic analytical concentration on the muscular and skeletal structure of the human body insofar as these are discernible. PREREQUISITE: ART 021 Drawing I; ART 031 Two-Dimensional Design; ART 022 Drawing II; or permission of instructor.

**FAR 161 Introduction to Photography 6 ch - 3 sh**

This course covers the fundamentals of camera work, including black and white negative and print processing and an introduction to color transparencies. Emphasis is given to the image making potential and craft of the photographic print. Adjustable camera required. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design; ART 032 Three-Dimensional Design; or permission of the instructor.

**FAR 171 Introduction to Sculpture 6 ch - 3 sh**

Basic experiences in conceiving and creating three dimensional and sculptural forms in various media. Emphasis is placed on acquiring a firm knowledge of materials and techniques necessary for creating sculptural works of art. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design; ART 032 Three-Dimensional Design; or permission of the instructor.

**FAR 200 Studio Materials 3 sh**

An investigation on a philosophical and theoretical level into the traditional and current attitudes about studio materials. Special emphasis will be given to the role of an expanding technology applicable to the studio situation.

**FAR 201 Serigraphy 6 ch - 3 sh**

An introduction to the single and multi-color stencil screen printing process (transographic). Experiences range from basic identification and preparation of materials and equipment, through processes and procedures, to the production of silkscreen prints. PREREQUISITES: ART 021 Drawing I; ART 022 Drawing II; ART 031 Two-Dimensional Design; ART 032 Three-Dimensional Design; or permission of the instructor.

**FAR 219 Applied Color 6 ch - 3 sh**

This course is concerned with the diverse use of color in art. Perception, identification, symbolism, and the many facets of color dimension, contrast, psychological ramifications will be used by the student working in a personal exploration. PREREQUISITES: ART 021 Drawing I, ART 022 Drawing II, ART 031 Two-Dimensional Design, ART 032 Three-Dimensional Design or permission of the instructor.

**FAR 238 Contemporary Visual Communication 6 ch - 3 sh**

In this course students gain proficiency in the creation of videotapes, animations, and slide productions. Contemporary media are analyzed for form, content, and their impact upon society.

**FAR 301, 302, 303, 304, 305, 306 Serigraphy Studio 6 ch - 3 sh**

Advanced studio experiences in the single and multi-color stencil printed process are investigated. Individualized design experiences, studio activities and problems are planned to encourage an appreciation for the production and application of serigraphic techniques by the artist, designer, and crafts-person. (Repeatable up to 18 sh with a 6 sh maximum per semester. PREREQUISITE: FAR 201, Serigraphy.

**FAR 311, 312, 313, 314, 315, 316 Painting Studio 6 ch - 3 sh**

This course is designed to further acquaint each student with the painting knowledge, skills, and attitudes needed for the development

of a personal imagery as well as the development of self-direction. (Repeatable up to 18 sh, no more than 6 sh in one semester). PREREQUISITE: FAR 111 Introduction to Painting or permission of instructor.

**FAR 321, 322, 323, 324, 325, 326 Drawing Studio 6 ch - 3 sh**

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions, and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. Repeatable for up to 18 hours credit. Not more than 6 sh per semester. PREREQUISITE: ART 021 Drawing I; ART 031 Two-Dimensional Design; ART 022 Drawing II; or permission of instructor.

**FAR/CDE 330 Animation 6 ch - 3 sh**

This course provides the opportunity for gaining rudimentary skills in the creation of non-computerized animation. While the emphasis is upon the production of animations, the origins of the art form will be explored and the renaissance in independent animation will be examined. PREREQUISITES: ART 021, ART 022, ART 031.

**FAR 331, 332, 333, 334, 335, 336 Watercolor Studio 6 ch - 3 sh**

The course is planned to further effective experience with watercolor, to gain knowledge, skill, and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. Repeatable up to 18 semester hours, not more than 6 sh per semester. PREREQUISITE: DAR 131 Introduction to Watercolor Painting; or permission of instructor.

**FAR 341, FAR 342, FAR 343,  
FAR 344, FAR 345, FAR 346**

**Printmaking Studio 6 ch - 3 sh**

Individual development with continued and additional information about printmaking. Intaglio, lithographic, relief, monoprint, stencil, rubbing, embossing, and printing processes can be further explored. This course is repeatable up to 18 semester hours, not more than 6 semester hours per semester. PREREQUISITE: FAR 141 Introduction to Printmaking; or permission of instructor.

**FAR 347 Lithography Studio I**

**FAR 348 Lithography Studio II**

**FAR 349 Lithography**

**Studio III 6 ch - 3 sh**

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for printmaking concentration. PREREQUISITE: FAR 141 Introduction to Printmaking; or permission of the instructor.

**FAR 351, 352, 353, 354, 355, 356**

**Life Drawing Studio 6 ch - 3 sh**

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure. (Repeatable up to 18 sh, not more than 6 sh per semester.) PREREQUISITE: ART 151 Introduction to Life Drawing; or permission of instructor.

**FAR 360 Color in**

**Photography 6 ch - 3 sh**

The course will instruct in making quality color prints from color negatives. Professional techniques for the color print using dichroic color-head enlargers and a color auto-processor will be used. Working knowledge of color transparencies will be incorporated through making a multi-image presentation. Emphasis

will be placed on the creative potential of color photography. PREREQUISITE: FAR 161 Introduction to Photography; or permission of instructor.

**FAR 361, 362, 363, 364, 365, 366**

**Photography Studio 6 ch - 3 sh**

The studio extends the experiences of Photography I and Photography II for the student who wishes to pursue further work in the medium with more depth in a specific area. PREREQUISITE: FAR 161 Introduction to Photography or permission of instructor. Repeatable up to 18 sh. Not more than 6 sh per semester.

**FAR 368 Specialized Photographic**

**Techniques 6 ch - 3 sh**

This course presents specialized skills and materials used in the photographic studio. Techniques of controlled studio lighting, large format camera handling, studio exposure, calculation, and large format film processing will be explored. PREREQUISITE: Intro I (FAR 161) or permission of instructor.

**FAR 370 Art Today:**

**The Next Decade 3 ch - 3 sh**

The avant-garde is a French term referring to those artists who are, at any time, thought to be the most advanced or at the cutting edge. This course will provide an investigation of the work, theories, attitudes and processes of avant-garde artists working today. It will consider the possible future direction of art through presentations of and dialogue with artists, critics, curators, etc. Through slide presentations, students will see a chronicle of selected artists who have made significant contributions to the contemporary art world. This pool of artists will change with the evolving art scene. Students will also study contemporary art by visiting galleries, museums and, in some cases, artists' studios, and by reading articles in major art periodicals. The students will attend presentations and meet with artists through the New Arts Program and the Visiting Artist Series. They will experience art firsthand by visits to galleries and artists' studios in New York City and/or Baltimore,

Philadelphia, Allentown, Reading, and Washington, D.C. The proximity of Kutztown to these centers of contemporary art offers opportunities to our students that are unique and unavailable to most university communities. PREREQUISITE: Junior level or above.

**FAR 371, 372, 373, 374, 375, 376**

**Sculpture Studio 6 ch - 3 sh**

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. PREREQUISITE: FAR 171, Introduction to Sculpture, or permission of instructor. Repeatable up to 18 semester hours, not more than 6 sh per semester.

**FAR 377, 378, 379, 380 Independent**

**Study: Art Studio I, II, III, IV 1 - 4 sh**

Independent Study involves individual pursuit and self-determination in Fine Arts studio area not being offered by the university. PREREQUISITE: permission of the instructor and department head. Repeatable up to 12 semester hours.

**FAR 398 The Business**

**of Art 3 ch - 3 sh**

The course will focus on the business issues related to being a professional artist. It will also address the development of practical portfolio procedures through lectures, demonstrations, field trips, consultations, and AV presentations in a studio situation.

**FAR 399 Student Exhibition 0 sh**

This student exhibition is a requirement for graduation. All BFA degree candidates, including Related Arts with a Visual Arts Concentration, and all BS in Art Education degree candidates and certification students participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record

within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

## FOREIGN LANGUAGES

### **FLA 011 Self-Instructional Language Course**

### **FLA 012 Self-Instructional Language Course**

### **FLA 021 Self-Instructional Language Course**

### **FLA 022 Self-Instructional Language Course**

Self-instructional Language courses are intended for intensified study, and are not offered as "crash" courses for a quick and superficial capability in the language. Progress and proficiency will be periodically and systematically monitored and tested by a qualified person proficient in the language. A particular course will be open to a student with permission of the chairman and only if a qualified informant is available. The University requires a statement signed by the student which releases the University of responsibility should a monitor/tutor be "lost" during study or, if faculty be unwilling or unable to continue the "Special Arrangement." Self-instructional courses are offered in Arabic, Chinese, Greek, Hebrew, Japanese, Polish, Portuguese.

### **FLA 220 Applied Linguistics in Foreign Languages 3 sh**

Introduction to general linguistics emphasizing the practical application of the basic structural and phonetic patterns of the foreign language to language learning. PREREQUISITE: FRE 022, GER 022, RUS 022 or SPA 022.

### **FLA 380 Senior Seminar in Foreign Language 3 sh**

This course consists of reading and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Foreign Languages. Required of all Liberal Arts students concentrating in Foreign Languages.

### **FLA 390 International Internship 1 - 9 sh**

This course is designed for the student wishing to spend an extended period of time abroad or at an approved domestic agency/organization in either an internship situation or non-traditional studies. Students must demonstrate that the internship or non-traditional program will be conducted in the foreign language of study and will be adequately supervised. Other requirements may need to be met. Open to Majors and Minors with permission of the department chairperson.

## FRENCH

### **FRE 011, FRE 012 Elementary French (I & II) 6 sh**

A course for beginners to develop basic skills in pronunciation, aural comprehension, speaking and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

### **FRE 013 Elementary Conversation in French 1 sh**

Intensive oral practice covering vocabulary and structures of survival situations. One hour of class. Open to students of FRE 011 and 012 or with permission of the instructor. May be repeated.

### **FRE 021, FRE 022 Intermediate French (III & IV) 6 sh**

Students who have satisfactorily completed six hours of elementary French, or who have had at least two years of French in high school continue the development of the basic skills in aural comprehension, speaking, and writing. Emphasis is placed on independent reading. Offered in two semesters of three hours each.

### **FRE 023 Intermediate Conversation in French 1 sh**

Intensive oral practice covering topics that prepare the student for foreign travel and the encounter of French people. One hour of class. Open to students of FRE 021 and 022 or with

permission of the instructor. May be repeated.

### **FRE 130 Composition and Conversation 3 sh**

An intensive grammar review, creative composition, and conversation, on current topics. PREREQUISITE: FRE 022 or its equivalent.

### **FRE 210 Advanced Language and Phonetics 3 sh**

Emphasis is placed on the ability to speak and write French with additional intensive training in phonetics. PREREQUISITE: FRE 022 or its equivalent.

### **FRE 220 Applied Linguistics in French 3 sh**

Introduction to general linguistics, emphasizing the practical application of the basic structural and phonetic patterns of French to good language learning. PREREQUISITE: FRE 022 or its equivalent.

### **FRE 224 Business French 3 sh**

Business French is the study of French business terminology and phrasing as well as the formal aspects of conducting business in francophone countries and covers such topics as banking, tourism, transportation and telecommunications. The study of aspects of the geography and sociology of francophone regions will also be included. Active skills practiced will be translation, correspondence and telecommunication. PREREQUISITE: FRE 022 or its equivalent.

### **FRE 251 Masterpieces of French Literature in English Translation I 3 ch - 3 sh**

This course entails an in-depth study of works from French literature selected for their humanistic character, their artistic quality and their present vitality. Primary emphasis is the appreciation of the innovative approach of each author to the universal themes of love and death, Man and Nature, Man's relation to God, war and peace, freedom, and bondage. This survey will include



representative works from the major literary genres: novel, essay, short story, drama and poetry (in English). The first semester (I) deals with French literature until 1800. PREREQUISITE: None.

**FRE 252 Masterpieces of French Literature in English Translation II 3 ch - 3 sh**

This course entails an in-depth study of works from French literature selected for their humanistic character, their artistic quality and their present vitality. Primary emphasis is the appreciation of the innovative approach of each author to the universal themes of love and death, Man and Nature, Man's relation to God, war and peace, freedom, and bondage. This survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry (in English). The second semester (II) deals with French literature from 1800 to the contemporary period. PREREQUISITE: None.

**FRE 300 French Classical Drama 3 sh**  
The classical drama from its rise to its highest point of achievement. Masterpieces of Corneille, Moliere, and Racine. *Precis* written in French on the readings. PREREQUISITE: FRE 022 or its equivalent.

**FRE 301, FRE 302 Survey of French Literature (I & II) 6 sh**

First semester: the development of French literature from its origin to the end of the 18th century. Second semester: continuation of the survey through the 19th and into the 20th centuries. Representative readings of varied literary types. PREREQUISITE: FRE 022 or its equivalent.

**FRE 305 French Literature of the Eighteenth Century 3 sh**  
A study of the great philosophical ideas of the principal writers of the Age of Enlightenment — Montesquieu, Voltaire and Rousseau. PREREQUISITE: FRE 022 or its equivalent.

**FRE 320 Development of the French Novel 3 sh**

Origin and development of the novel in each of the literary periods. *Precis* written in French augment the readings. PREREQUISITE: FRE 022 or its equivalent.

**FRE 325, FRE 326 Advanced Syntax and Stylistics I & II 6 sh**

For those who have successfully completed French 130 and French 210, additional work toward mastering the fine points of syntax. Extensive practice in analyzing literary and colloquial styles. Intensive practice in writing and speaking acceptable idiomatic French. PREREQUISITE: FRE 130 and 210 or their equivalents.

**FRE 340 French Culture and Civilization 3 sh**

French life and culture as seen in literature, art, music and philosophy. The folklore, linguistic and social aspects of culture will also be covered to acquaint the student with the complexities of the national background. **Required for Secondary Education majors with a concentration in French.** PREREQUISITE: FRE 022 or its equivalent.

**FRE 341 Contemporary French Culture 3 sh**

A study of contemporary France and francophone societies, as manifested in present-day life and culture. Consideration will be given to their place in the world, to political, economic and social structures, education and the arts. PREREQUISITE: FRE 022 or its equivalent.

**FRE 345 Modern French Drama and Theatre 3 sh**

The study of French drama from the Age of Enlightenment to the present. Selected dramatists of the 18th, 19th and 20th centuries will be considered. PREREQUISITE: FRE 022 or its equivalent.

**FRE 361 Women in French Literature 3 sh**

An Honors course to familiarize both the French major as well as the non-language student with the role of women in French literature from the Middle Ages through the Twentieth Century. Students will read selected works by women writers in several genres and will read a few works by men in which the woman is the primary character or focus. The course will survey the expanding and developing role of women through the centuries. All readings will be in English; the course will be taught exclusively in English and will meet three hours per week. Course does not satisfy the foreign language requirement for any degree, but can be used to satisfy humanities requirement.

**FRE 370 Selected Topics in French 3 sh**

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

**FLA 380 Senior Seminar in Foreign Languages 3 sh**

This course consists of reading and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Foreign Languages. Required of all Liberal Arts students concentrating in Foreign Languages.

**FRE 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**FRE 410 Phonetics of the French Language 3 sh**

The analysis and measurement of speech sounds, practice and drill in the pronunciation of French. Application of phonetic principles to the understanding of the written symbol and grammatical difficulties.

**FRE 440 Seminar in Racine 3 sh**

An analysis of the tragedies of Racine, their sources, social and metaphysical implications. Special attention will be given to Racine's dramatic theories.

**FRE 470 Selected Topics in Foreign Languages (French, German, Russian, Spanish) 3 ch - 3 sh**

This course offers an interesting study of literary topics, cultural phenomena, styles, trends, criticisms, and writers not included or not covered in depth in other foreign language courses.

**FRE 495 Independent Study in French 1-3 ch - 1-3 sh**

This course, which will be taught in French, is for students who wish to study and explore, in depth, aspects of French and Francophone literatures, cultures and societies or a special topic in the French language. It is open to both graduate and undergraduate students. Students may register for this course more than once, up to a maximum of six semester hours of credit, so long as they do not repeat the same topic. The student must confer and reach an agreement with the faculty member who will guide this independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (course content, evaluation procedures, reading list, etc.) must be filed with and receive prior approval of the majority of the French professors and of the departmental Chairperson. PREREQUISITE: Graduate status or undergraduate students with a Q.P.A. of 2.50 or better based on a minimum of 12 S.H. above FRE 022, in their major field.

**GENERAL STUDIES****GEE 390 General Studies Internship 3, 6 or 12 credits**

The student is placed in a work-study situation that is relevant to the educational and vocational goals and objectives of the student. The internship experience and course credit will be determined prior to enrollment. Course credit will be established by the character and nature of the internship placement. Students in the General Studies degree program should apply to the General Studies Committee for approval one semester in advance of the internship. PREREQUISITE: Approval of General Studies Committee and Junior or Senior status.

**GEE 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**GEOGRAPHY****GEG 010 Elements of Physical Geography 3 ch - 3 sh**

Physical geography examines spatial elements of the physical environment — weather, climate, vegetation, soils, and landforms. Students analyze the nature and characteristics of these elements, the processes involved in their development, their distribution over the earth, and their interrelationships. Students also examine the interrelationships between these elements and human activities. They use maps and other geographical data to locate, analyze, interpret, and solve geographical problems of a physical environmental nature. This course is useful to students seeking to better understand geographical aspects of environmental issues.

**GEG 020 Elements of Cultural Geography 3 sh**

A study of the interaction of man and his environment and the influences of geographical factors on human culture. Population, settlement, economic activity, social and political organization will be considered.

**GEG 040 Descriptive Oceanography 3 sh**

A course to familiarize the non-scientific student with the marine environment and current developments in the marine sciences. Topics for study will include: the Physical Parameters of the Ocean; Ocean Basin Topography; Life in the Sea; and Resources in the Oceans. Students will be encouraged to participate in field activities at the Wallops Island Marine Center at Wallops Island, Virginia. This course is unacceptable for the Earth-Space Science major requirement.

**GEG 101 World Regional Geography 3 sh**

This introductory course is designed to give the student a broad overview of the world — its peoples, cultures, economic and social systems, and the physical environment over which all of these are superimposed and interact. The course is intended as a General Education social science elective.

**GEG 110 Geography of the United States and Canada 3 sh**

This introductory course is designed to give the student an understanding and appreciation of the Anglo-American culture area. Canada and the United States will be analyzed from both topical and regional viewpoints.

**GEG 125 Geography of South America 3 sh**

South American cultural, social, economic, and political activities will be analyzed in relation to the physical environment. Interaction within the region as well as the region's interrelationships with other political entities will be studied.

**GEG 127 Geography of Central America and the Caribbean 3 sh**

A geographical analysis of the physical, cultural, and economic environments of mainland Central America and the Caribbean. Emphasis will be placed on the spatial arrangement of the diverse environmental parameters and how they influence the present geopolitical situation.

**GEG 132 Geography of the Indic-  
Oriental World 3 sh**

Man's social, economic, and political adjustments to the factors of his environment are emphasized in this regional study of China, Korea, Japan, India, and the Southeast Asian Mainland. Problems of the low standards of living, conservation of resources, better and wider use of resources, and expanding industrialization are considered.

**GEG 140 Geography of Europe 3 sh**

A regional course emphasizing the economic problems of European nations, it affords an opportunity to study the geographic relationships underlying land utilization, boundary disputes, economic organization, and the dominant international relations of Europe.

**GEG 170 Field Methods  
in Geography 4 ch - 3 sh**

The field course in geography stresses and employs various tools, skills and techniques designed to provide insight into the broad geographical concepts, processes and spatial relationships. Emphasis will be placed upon developing the ability to observe, record, describe and classify pertinent data and information valuable in land use problem solving situations.

**GEG 180 The Geography of Natural  
Hazards 3 sh**

The geography of natural hazards examines human landscapes, in areas prone to damaging environmental conditions, i.e., floods, droughts, earth-quakes, severe agricultural frosts, etc. Upon the identification of geographic areas where notable disasters have occurred, a study is made of (1) the individual and societal human responses and decisions, and (2) the resultant land use patterns which have evolved. The student will then examine and evaluate current plans and options designed to reduce future loss of life and property in hazard-prone regions.

**GEG 210 Environmental  
Conservation 3 sh**

This course offers an opportunity to analyze current problems growing out of the distribution and utilization of our physical and cultural environments. Emphasis is placed upon suggested methods which will enable man to live in harmony with his environments and reduce waste to a minimum. Field trips are an integral part of this course.

**GEG 220 Economic  
Geography 3 sh**

The course will introduce the basic concepts and processes underlying the spatial distribution of economic activities. Natural resource distributions, population patterns and growth, and general development disparities will be examined. The evolution of different types of economic activities over time and space will be considered within the context of technological change, particularly in transportation and communications. Contrasts and comparisons will be made between urban and rural economic activities, and both inter-urban and intra-urban patterns in different regions of the world will be examined. Industrial location will be considered, ranging from the small firm to the multinational organization. International trade and factor movement and world trading patterns will be examined, as well as problems resulting from the globalization of economic activity.

**GEG 223 Introduction to Transportation  
Geography 3 sh**

Transportation and its role in the development of the economic and geographic landscape are analyzed at the national, regional and urban level. This will be accomplished by considering the questions of how, where and why movements occur through geographic space.

**GEG 230 Map Reading and  
Interpretation 4 ch - 3 sh**

This course examines how maps locate, represent, summarize and communicate geographic information. Students develop an appreciation for

using maps to learn about physical and cultural landscapes. Emphasis is on the interrelationships of map design, symbolization, and visual communication; functions of map projections; use of coordinate systems of maps; techniques for measuring and calculating scale, distance, direction, slope, elevation, area, volume, and object height from maps; and analysis of spatial trends and landscape change using maps. Students also use the magnetic compass with maps to solve problems of direction and scale. Map critiquing and writing assignments challenge them to evaluate potential misuse and misinterpretation of maps. Laboratory exercises involve analysis of topographic, road, weather, air photo, historical, land use, and zoning maps. This course provides a basis for advanced techniques courses in geography. It is also helpful to education majors concentrating in geography and majors in fields dealing with either physical or human-built environments. **PREREQUISITE:** Either GEG 010, GEL 020 or GEL 100, or permission of instructor.

**GEG 240 Geography of  
Pennsylvania 3 sh**

Man's cultural and economic development in relation to the factors of his physical environment are analyzed in the land use study of Pennsylvania. The areal extent, value and rise of the state's resources and related problems are studied as well as the need for a well-directed, coordinated program. Field trips are an integral part of this course.

**GEG 264 Medical Geography 3 sh**

An examination of geographical concepts and techniques as applied to medical issues. Topics to be emphasized include: disease classification and measurement; origin and spread of diseases; major types of diseases; medical maps; and variability in the quality and quantity of health care systems.

**GEG 274 Introduction to GIS 4 ch - 3 sh**

Geographic information systems (GIS) are a major tool for the analysis of spatial data. This course introduces the student to the theoretical, conceptual and practical aspects of the collection, storage, analysis and display of spatial data. Emphasis will be placed on the applications of geographic information systems by geographers, environmental scientists, planners, and businessmen. Laboratory projects involving student use of computers are required.

**GEG 310 Urban Geography 3 ch - 3 sh**

Urban Geography is concerned with instilling in students a working knowledge of the development, structure, functioning, and distribution of centers of human social, economic, and political activity, cities, through the application of spatial theories and models of human behavior. To this end, the onset of urbanization is discussed with emphasis on necessary conditions and on the locations of the earliest urban settlements. Also traced is the spread of urbanism through time and the evolution of urban form. Theories of urban/economic development are discussed to document the dynamic nature of the discourse on Urban Geography and to provide a basis upon which students may interpret subsequent issues covered in the course and to evaluate their own urban experiences. Trends in urbanization in the "Third World," or less developed countries, are compared and contrasted with those in the "First World," or advanced capitalist countries. The roles of economic conditions and patterns of investment, colonialism, and transportation are emphasized. Modern Urban Geography must also examine the environmental impacts associated with urban development. By viewing cities as points in space, students are made aware of the ways in which cities organize their tributary areas and how they are themselves arranged in space. Finally, by viewing cities as space, the overriding role of land value in the determination of land use

and ultimately the internal organization of economic and housing functions and of ethnic groups is demonstrated. Each topic is examined in terms of positive and negative ramifications and with an emphasis on planning and solution identification.

**GEG 311 Geography of Poverty in the United States 3 sh**

The geographic distribution and localizing factors of poverty will be examined within the United States. The relationships that exist between blight-substandard housing and various minority groups, such as the black population, will be studied, not only in the central city and in the suburbs, but in the outermost rural areas as well.

**GEG 315 Geographical Influences in American History 3 sh**

A historical geography course which examines the exploration, settlement and development of the United States within the context of environmental factors — both human and physical.

**GEG 320 Meteorology**

**GEG 321 Meteorology Laboratory 4 ch - 3 sh**

A systematic study of the laws and underlying principles of atmospheric changes. Opportunity is afforded the student to become familiar with the common weather instruments, to observe and record weather data, to read and interpret weather maps. The emphasis here is upon conceptual understanding rather than a rigorous mathematical approach to the subject. This approach is employed to develop an appreciation of the atmospheric system from an applied viewpoint.

**GEG 322 Climatology 3 sh**

The climatic regions of the world, and the advantages and limitations of each for man's occupancy will be studied. The physical aspects of the atmosphere and the regional characteristics of climate will be examined. The course is valuable background material for World Problems in Geography. PREREQUISITE: GEG 010 Elements of Physical Geography is strongly recommended.

**GEG/GEL 324 Geomorphology 4 ch - 3 sh**

**GEG/GEL 325 Geomorphology Laboratory**

This course involves the study of the evolution of landforms. Tectonic forces, climates and biological forces, the processes of weathering, mass wasting, and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic maps, laboratory exercises, as well as individual field studies are an important part of the course. Laboratory work and field trips are required. PREREQUISITE: Physical Geology (only one semester required). GEG 010 Elements of Physical Geography, or GEL100/101.

**GEG 332 Computer Cartography 4 ch - 3 sh**

An examination and application of the techniques for producing maps and graphs using a computer. Both main-frame and microcomputer approaches will be presented. Students will learn how to use already existing computer programs as a tool to display different types of data. No programming experience is required.

**GEG 333 Advanced GIS 4 ch - 3 sh**

Geographic information systems (GIS) are a major tool for the analysis of spatial data. Based on the material covered in Introduction to GIS, this course considers in depth the theoretical, conceptual and practical aspects of the collection, storage, manipulations, analysis and display of spatial data. Laboratory projects involving student use of vector-based GIS systems to develop, implement and analyze geographic databases are required. PREREQUISITES: GEG 274 and GEG 330 or permission of instructor.

**GEG 335 World Problems in Geography 3 sh**

Current world and national problems are analyzed within the framework of systematic political geography. Attention will be focused on world trouble spots, elections, boundary friction, resource allocation, population

pressure, and military strategy from a geographical standpoint. Elements of Cultural Geography or a basic Political Science course would be valuable preparation for this course, but are not prerequisite.

### **GEG 341 Environmental Planning 3 sh**

Emphasis on the concepts and techniques used to study and evaluate the air and water environments, solid waste, noise pollution, and toxic wastes for the purpose of achieving environmental quality. Predominant attention will focus on planning and management principles, but administrative, economic and legal constraints will also receive due consideration.

### **GEG 343 Land Use Planning 3 sh**

An examination and application of the methods associated with land use planning, especially in the small town and rural context. Emphasis is placed upon the tools and techniques associated with land use planning such as interpretive maps, soil surveys, remote sensors, and computers. Legal aspects of land use planning will also be presented.

### **GEG 347 Remote Sensing of the Environment 4 ch - 3 sh**

Remote Sensing of the Environment is a course devoted to the relatively new study of the earth from space. The primary focus will be on the variety of remote sensing techniques, the types and characteristics of imagery derived from the various techniques, and applications of the techniques. A lecture and laboratory format will provide ample opportunity for students to examine and interpret earth images. PREREQUISITE: Junior status and GEG 010 or GEG 020 or permission of the instructor.

### **GEG 371 Independent Study in Geography 3 sh**

Students who meet minimum qualifications and who can demonstrate a need or purpose will be permitted to pursue study topics within the field of geography at their own pace, but under direction of a member of the geography staff. Topics which

parallel current offerings are not acceptable; however in-depth studies of any area or topic can be considered. Minimum qualifications: junior or senior standing, and the completion of 12 semester hours of geography. Permission of the department is required.

### **GEG 372 Selected Topics in Geography 3 sh**

This course is designed to permit the department to offer a course of study based on the timeliness of the topic. The course content will vary with the topic and the instructor, but a research paper or equivalent will be required. The course may not be repeated for credit. PREREQUISITE: GEG 010 and GEG 020 and permission of the instructor.

### **GEG 375 Research Methods in Geography 3 sh**

An examination of the research methods of current importance in the discipline of Geography. Topics to be emphasized include: the nature of scientific research; the development and implementation of geographic research design, the acquisition and analysis of data, and the preparation of written reports. PREREQUISITE: Junior status and twelve credits in Geography.

### **GEG 380 Senior Seminar in Geography 3 ch - 3 sh**

The major student activity in this course will be discussing, proposing, researching, and writing a Senior Thesis. The successful completion, and acceptance of the thesis by the Department of Geography Faculty, will provide the student with experience in the several areas noted above. As well as being the culminating undergraduate experience for the student, it will satisfy the College of Liberal Arts and Sciences' Comprehensive Examination requirement. PREREQUISITES: Completion of the following Geography Program requirements: all other "Required Courses," all "Required Categories" courses, and twelve (12) credit hours in the "Geography Track" category.

### **GEG 394 Internship in Geography 1 - 12 sh**

The student will be placed in a supervised work situation for one semester with such cooperating public or private organizations as city, county, or state planning agencies; consulting firms engaged in regional surveys; or companies doing cartographic work. Periodic conferences with the intern will provide orientation and opportunity for review of issues and procedures relevant to this internship experience. Course credit will depend upon the needs of the student and the rigor of the work situation. PREREQUISITES: Junior or Senior status and the completion of a minimum of 15 hours in geography and permission of the Department.

### **GEG 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

## **GEOLOGY**

### **GEL 005 Earth Resources and Processes 3 ch - 3 sh**

An introduction to the principles of geology and their application to earth resources and processes. Emphasis is placed on understanding the origins of metallic, non-metallic, and energy resources and the geological factors which influence both natural and man-induced disasters. NO PREREQUISITE. This course does not count toward graduation credit for Geology, Marine Science or Environmental Science-Geology majors, nor does it satisfy the laboratory science requirement under general education.

### **GEL 020 Introduction to Geology Lecture 4 ch - 3 sh**

### **GEL 021 Introduction to Geology Laboratory**

An introduction to the study of the earth, physical geology includes the study of the formation of common rocks and minerals, of the structure of the surface of the earth, and of geological processes that create the surface landscape. Human considerations such

as energy, mineral deposits and environmental hazards are also examined. Laboratory work includes the study of rocks and minerals, and the study of topographic maps and landforms. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

**GEL 100 Physical Geology**

**Lecture 6 ch - 4 sh**

**GEL 101 Physical Geology Laboratory**

An introduction to earth processes, physical geology includes the study of the formation of common rocks, minerals and economic mineral deposits, the structure of the earth's interior, and geological processes that create the surface landscape. Human and environmental hazards are also examined. Laboratory work includes the study of rocks, minerals, topographic maps, landforms, and geologic maps. Field trips may also be required. PREREQUISITES: (Students are expected to have had adequate high school preparation in algebra, trigonometry, and chemistry). Required of majors in the Earth-Space Sciences.

**GEL 102 Historical Geology**

**Lecture 6 ch - 4 sh**

**GEL 103 Historical Geology Laboratory**

An introduction to the geological and biological evolution of the earth, historical geology traces the history of the earth as recorded in the rock record. The scientific methods by which geologists interpret the earth history are introduced. Field trips may be required. Required of majors in the Earth-Space Sciences. Offered Spring Semester.

**GEL/MAR 110 Introduction to**

**Oceanography 5 ch - 3 sh**

**GEL/MAR 111 Introduction to**

**Oceanography Laboratory**

An introductory course designed to introduce students from diverse backgrounds to the physical, chemical, biological and geological aspects of the oceans and to the methods and techniques of this

rapidly expanding field. Emphasis is placed on lab and at-sea assignments which focus the students' attention on the interrelationship and unity of oceanography, and its relation to other environmental sciences.

**GEL 200 Field Geology 5 ch - 3 sh**

**GEL 201 Field Geology Laboratory**

Methods of geological survey involving field practice, interpretation of selected areas, and preparation of maps, and reports. Lectures and laboratories. PREREQUISITE: GEL 100-101 and GEL 102-103.

**ENV/GEL 210 Environmental**

**Geology 5 ch - 3 sh**

**ENV/GEL 211 Environmental Geology**

**Laboratory**

A study of the relationship between man and his geological habitat. Problems that society faces in using the earth are examined, including case histories of natural disasters and human interactions with earth materials. Geo-chemical cycles, geological materials, and land use will be examined as they relate to environmental quality. PREREQUISITE: GEL 100-101 Physical Geology.

**GEL 220 Mineralogy Lecture 6 ch-4 sh**

**GEL 221 Mineralogy Laboratory**

An introduction to the study of the structure, chemistry, formation and occurrence of minerals. Included are the elements of crystallography. Laboratory work entails the economically important minerals by means of physical properties and chemical tests, and the measuring and plotting of crystal models. PREREQUISITES: GEL 100-101 and facility with General Chemistry and Trigonometry.

**GEL 230 Paleontology 5 ch - 3 sh**

**GEL 231 Paleontology Laboratory**

A study of invertebrate and lower vertebrate life as revealed in the fossil record. The invertebrate phyla are used to illustrate evolutionary patterns, speciation, and the use of fossils in stratigraphy. The invertebrates and lower vertebrates are treated systematically. Chief emphasis is on organic hard parts. Fossils are collected in the

field, then prepared and identified in the laboratory. PREREQUISITES: GEL 102-103 Historical Geology.

**GEL/MAR 237 Field Methods**

**in Oceanography 5 ch - 3 sh**

**GEL/MAR 238 Field Methods**

**in Oceanography Laboratory**

A course to familiarize students with the dynamic marine environment and field work on board small research vessels; to instruct in the use and application of standard oceanographic instruments and sampling devices; to promote and encourage independent research through the initial stages of a scientific project. PREREQUISITE: GEL/MAR 110-111 or consent of the instructor.

**GEL 304 Structural**

**Geology 5 ch - 3 sh**

**GEL 305 Structural Geology Laboratory**

Primary and secondary structures of rock masses and their modes of formation. Methods of field study and laboratory interpretation. PREREQUISITES: GEL 100-101 and GEL 102-103.

**GEL 314 Igneous and Metamorphic**

**Petrology Lecture 5 ch - 3 sh**

**GEL 315 Igneous and Metamorphic**

**Petrology Laboratory**

Description and mode of occurrence of igneous and metamorphic rocks. Laboratory work includes geochemical calculations, reading of phase diagrams, and identification and classification of rocks in hand specimen and thin sections. PREREQUISITE: GEL 320-321.

**GEL 320 Optical Mineralogy**

**Lecture 5 ch - 3 sh**

**GEL 321 Optical Mineralogy Laboratory**

The principles of polarized light, the petrographic (polarizing) microscope, and the behavior of light in non-opaque materials. Laboratory work includes techniques of identification and study of minerals in grains and thin sections with the polarizing microscope. PREREQUISITE: GEL 220-221.

**GEL/GEG 324****Geomorphology 4 ch - 3 sh****GEL/GEG 325 Geomorphology****Laboratory**

The study of the dynamic and tectonic processes that, in conjunction with the climatic and biologic forces, have shaped the earth's present form and are constantly reshaping and modifying it. The constructive forces of vulcanism and diastrophism and the activities of weathering and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic maps, laboratory exercises, as well as individual field studies, are an important part of the course. Laboratory work and field trips are required. PREREQUISITE: GEL 100-101.

**GEL 340 Stratigraphy****Lecture 5 ch - 3 sh****GEL 341 Stratigraphy Laboratory**

The basic principles governing the classification, correlation, interpretation of stratified rocks are presented by means of lectures, laboratory exercises and field trips. Laboratory exercises demonstrate procedures used in analyzing and presenting stratigraphic data. Field trips are employed to introduce the student to stratigraphic principles and local stratigraphic problems. PREREQUISITE: GEL 230-231.

**GEL/MAR 350 Sedimentation****Lecture 5 ch - 3 sh****GEL/MAR 351 Sedimentation****Laboratory**

The basic composition, transport, diagenesis and distribution of sediments are introduced by means of lectures and laboratories. PREREQUISITES: GEL 100-101 and either GEL 102-103, GEL 366-367 or permission of instructor.

**GEL/MAR 358 General****Geophysics 5 ch - 3 sh****GEL/MAR 359 General Geophysics****Laboratory**

The study of earthquake seismology and the basic geophysical methods such as gravity, magnetics, seismic refraction, seismic reflection, electrical resistivity, and electro-logging. The

laboratory exercises and field work using portable geophysical equipment will familiarize the students with the various methods used to collect and interpret geophysical data. PREREQUISITES: GEL 100-101 or MAR/GEL 110-111, PHY 040-041, PHY 042-043 or PHY 102-103.

**GEL 362 Hydrogeology 5 ch - 3 sh****GEL 363 Hydrogeology Laboratory**

This course deals with the study of the subsurface waters of the Earth, their occurrence, circulation and distribution, their chemical and physical properties and their relation to the geologic environment. The laboratory exercises and field work will familiarize students with various methods used to collect and interpret hydrological data. PREREQUISITES: Two semesters of Geology/Marine Science and PHY 040-041, PHY 042-043 or PHY 100-101, PHY 102-103.

**GEL/MAR 366 Marine****Geology 5 ch - 3 sh****GEL/MAR 367 Marine Geology****Laboratory**

A study of the structural and sedimentary environments of the continental shelf, slopes, and ocean basins. The crustal structure of the earth and its relation to the sedimentary record and geologic history of the ocean is examined. Sampling and laboratory procedures used by the marine geologist are introduced. PREREQUISITE: GEL 100-101, MAR 110-111, or consent of instructor.

**GEL 370 Seminar: Selected Topics****in Geology 1 - 3 sh**

Via independent study or small group seminars, the student learns academic self discipline and how to gather, interpret, evaluate and collate the large amount of knowledge available in the literature. PREREQUISITE: Advanced standing in the course related to the area of independent study. Prior to registration the student must arrange for a faculty advisor and obtain permission of the Department Chairperson.

**GEL 380 Senior Seminar  
in Geology****2 sh**

Readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Geology. Required of all Liberal Arts students majoring in Geology.

**GEL 390 Internship in Geology 1 - 4 sh**

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements. PREREQUISITE: Junior and Senior standing and approval of department head.

**GEL 398 Honors Supplementary  
Research****1 - 3 sh**

See page 155.

## GERMAN

### **GER 011, GER 012 Elementary German (I & II) 6 sh**

A course for beginners to develop basic skills in pronunciation, aural comprehension, speaking and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

### **GER 013 Elementary Conversation in German 2 ch - 1 sh**

Intensive oral practice covering vocabulary and structures of survival situations. One class hour. Open to students in GER 011 and 012 or with approval of the instructor. May be repeated.

### **GER 021, GER 022 Intermediate German (III & IV) 6 sh**

Students who have satisfactorily completed six hours of elementary German, or who have had at least two years of German in high school, will continue the development of the basic skills in aural comprehension, speaking and writing, with emphasis on independent readings. Offered in two semesters of three hours each.

### **GER 023 Intermediate Conversation in German 2 ch - 1 sh**

Intensive oral practice covering topics that prepare the student for foreign travel and the encounter of German people. One hour of class. Open to students of GER 021 and 022 or with the permission of the instructor. May be repeated.

### **GER 211 German Composition and Conversation I 3 sh**

An intensive grammar review, creative composition, conversation on current topics. PREREQUISITE: GER 022 or its equivalent.

### **GER 212 German Composition and Conversation II 3 sh**

The course is a continuation of German Composition and Conversation I and is designed to refine writing and conversational skills initiated and required in GER 211. PREREQUISITE: GER 211 or permission of the instructor.

### **GER 213 Business German 3 sh**

Business German is the study of German business terminology and phrasing and of the formal aspects of conducting business in German speaking countries. It covers such topics as banking, transportation, telecommunication, and tourism. The study of the geography and sociology of the German speaking countries will be included. Translation, correspondence and telecommunication skills will be practiced, as well. PREREQUISITE: GER 211 or GER 212.

### **GER 220 Applied Linguistics in German 3 sh**

Introduction to general linguistics, emphasizing the practical application of the basic structural and phonetic patterns of German to good language learning. PREREQUISITE: GER 022 or its equivalent.

### **GER 251, GER 252 German Literature in English Translation I & II 6 sh**

An in-depth study in English translation of some outstanding works of German Literature. The first semester is devoted to German writers from Lessing to E.T.A. Hoffmann. The second semester begins with Keller and continues through Böll. Either semester may be taken independently.

### **GER 301, GER 302 Survey of German Literature I & II 6 sh**

First semester: the development of German literature from its origins to the end of the 18th century. Second semester continuation of the survey through the 19th and into the 20th century. Representative readings of varied literary types. PREREQUISITE: GER 022 or its equivalent.

### **GER 311 German Literature of the 18th Century 3 sh**

Emphasis is placed on the works of Goethe and Schiller as seen against the background of their lives. PREREQUISITE: GER 022 or its equivalent.

### **GER 312 German Literature of the 19th Century 3 sh**

German Romanticism as reflected in its literature and philosophy. PREREQUISITE: GER 022 or its equivalent.

### **GER 313 German Literature of the 20th Century 3 sh**

A survey of the literary movements carried over from the late 19th century, and the new movements developed in the first half of the 20th century. PREREQUISITE: GER 022 or its equivalent.

### **GER 320 German Short Story 3 sh**

The German short story from the 13th century to the present time. PREREQUISITE: GER 022 or its equivalent.

### **GER 325, GER 326 Advanced Syntax and Stylistics I & II 6 sh**

For those who have successfully completed GER 211 and GER 212. Additional work toward mastering the fine points of syntax. Extensive practice in analyzing literary and colloquial styles. Intensive practice in writing and speaking acceptable idiomatic German. PREREQUISITE: GER 211 and 212 or their equivalent.

### **GER 340 German Culture and Civilization 3 sh**

German life and culture as seen in literature, art, music, and philosophy. The folkloric, linguistic, and social aspects of culture will also be covered to acquaint the student with the complexities of the national background. PREREQUISITE: GER 022 or its equivalent.

### **GER 370 Selected Topics in German 3 sh**

This course entails an intensive study of literary or cultural topics, styles, trends, criticisms and writers not included or not covered in depth in other German courses. May be repeated for credit.

### **FLA 380 Senior Seminar in Foreign Languages 3 sh**

This course consists of reading and discussions in the area of the individual student's interest in preparation for



the comprehensive examination in Foreign Languages. Required of all Liberal Arts students concentrating in Foreign Languages.

**GER 398 Honors Supplementary Research** 1 - 3 sh  
See page 155.

**GER 410 Phonetics of the German Language** 3 sh  
Analysis of measurement of speech sounds, practice and drill in the pronunciation of German. Application of phonetic principles of the understanding of the written symbol and grammatical difficulties.

**GER 420 Professional Translation Skills in German** 3 sh  
The course stresses accuracy, precision, idiomacy, and subtlety in translation from German to English of a wide variety of texts embracing many disciplines. As each of these requires its particular methods, textual analysis and evaluation of the source language are necessarily practiced before the act of translating may begin. Selected texts are examined for their message/purpose/function, and translated into the target language according to the principles governing correct, idiomatic translation.

**GER 425 Seminar in Schiller** 3 sh  
An examination and reading of the principal dramas of Schiller and selections of prose writings. The emphasis in this course is primarily on Schiller's dramatic works and theories. Ample time is given to the consideration of Schiller's thinking on the role and significance of human history, the nature of universal ideas, his pre-occupation with the problems of human liberty, his philosophy, in short, the versatility of his intellect. The moral dimensions of Schiller's theater receive special attention.

**GER 470 Selected Topics in German** 3 sh  
This course offers an intensive study of literary topics, cultural phenomena, styles, trends, criticisms, and writers not included or covered in depth in other foreign language courses.

## HEALTH

**HEA 020 First Aid** 2 sh  
This course is designed to provide the knowledge and skills called for in most situations in which emergency first aid care is required and medical assistance is delayed. It incorporates personal safety and accident prevention information to acquaint students with many causes of accidents and sudden illness so that action can be taken to eliminate or minimize such causes. This course may not be used to satisfy the Health requirement.

**HEA 101 Current Health Issues** 2 sh  
This course focuses on the provision of foundational health information and on current, controversial, polarizing health issues presently affecting society. Opportunity for assessment of opposing views, evaluation of the quality and strength of "data" supporting divergent opinion, discussion of the potential impact of opposing positions and formulation of personal viewpoints are hallmarks of this course.

**HEA 115 Health Maintenance Through Nutrition and Exercise** 3 sh  
The course is designed for students interested in the theoretical and practical aspects of losing weight or maintaining one's ideal weight. Recent medical and behavioral literature is reviewed and opportunities exist to make application of these theories to one's own health practices. This is accomplished by participation in a wide range of enjoyable activities to increase one's energy output, and through discussion.

**HEA 116 Health Maintenance Through Prevention and Early Detection of Illness** 3 sh  
Emphasis is placed on the responsibility of the individual for making health choices that will result in lifestyle changes, the reduction of health risk factors, the prevention of illness, early identification and treatment of illness, and the restoration of wellness. The prevention, symptoms, detection, treatment and prognosis of selected

diseases which are common in statistical reports are covered.

**HEA 120 Health and Wellness** 3 sh  
This course is designed to provide an overview of personal health and wellness. Emphasis will be given to the major components of a healthy lifestyle and reduction of major risk factors for chronic degenerative diseases. Areas will include, but are not limited to, exercise and fitness, nutrition, chemical wellness, stress management, emotional wellness, sexuality and sexually transmitted diseases, and making healthy choices. Time management, values clarification and interpersonal relationships will be included. In addition, the student will be guided in the development of individualized planning for a healthy productive life. This course or HEA 101 (not both) can be used to satisfy the health requirement in Category I and V of General Education.

**HEA 370 Selected Topics in Health** 1 - 3 sh  
This course presents an in-depth, analytical study of a selected topic in Health. Content will vary depending upon the timeliness and relevance of subject material, interests of the professor and/or student demand. The course may be taken for credit twice provided the same topic is not repeated. **PREREQUISITE:** either HEA 101, 115, 116, 120 or permission of the professor.

**HEA 380 Independent Study in Health** 1 - 3 sh  
Independent Study provides an opportunity for students to pursue scholarly activity in an area germane to the discipline of Health Education not covered within the context of a regularly offered undergraduate course in Health or Wellness. Undergraduate students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Health, Physical Education and Dance Department is required.

**HEA 430 Fundamental Techniques  
in Health Psychology 3 sh**

This course will discuss the history, rationale, and scientific underpinnings of health psychology. Areas to be covered are: relaxation techniques (including autogenic training, diaphragmatic breathing, imaging procedures, progressive muscle relaxation and body scanning), massage (Trager, Alexander, Feldenkrais, Kripalu), exercise, hypnosis, nutrition, and lifestyle interventions. The major emphasis in the course will be on biofeedback and its role in wellness and in the mitigation of illness. PREREQUISITE: PSY 011.

**HEA/PSY 436 Selected Applications  
of Biofeedback and  
Self-regulation 3 sh**

This course will focus upon the uses of biofeedback in selected aspects of health maintenance and disease prevention. Biofeedback is used to teach individuals to regulate autonomic nervous system responses to produce optimal well-being and effective functioning. Students will learn to use biofeedback instruments to monitor temperature, muscle tension, brain waves, blood volume, blood pressure, heart rate, breathing and epidermal response. Students will be required to conduct a biofeedback research project. PREREQUISITE: HEA/PSY 430 or permission of instructor.

**HISTORY**

**HIS 014 Western Civilization  
in a Global Context 1 sh**

This course will examine the origins, development and interconnectedness of major world societies to ca. A.D. 1600, focusing on the evolution of Western Europe and its importance in shaping the modern world.

**HIS 015 Western Civilization  
in a Global Context 2 sh**

This course will examine the development and interaction of major world societies since A.D. 1600, focusing on the evolution of Western Europe and its importance in shaping the modern world.

**HIS 025 History of The United States:  
The Formative Years And  
The Federal Republic 3 sh**

This is an introductory course in American History covering the period from the nation's colonial beginnings to its threatened destruction in the Civil War. The central part of the course deals with the development of American habits of thought, institutions and culture from 1607 to 1865.

**HIS 026 History of The United States:  
The Emergence of Modern  
America 3 sh**

This is an introductory course in American history beginning with Reconstruction following the Civil War and stressing the emergence of a dominantly urban-industrial society, the expanded role of government and America's increased role in world affairs.

**HIS 111 Europe: From Absolutism  
to Revolution 3 sh**

This course is designed to study the political, economic, social, and intellectual development of Europe in the 17th and 18th centuries.

**HIS 112 Nineteenth Century  
Europe 3 sh**

This is a survey of political, economic, social and diplomatic developments in Europe from the Congress of Vienna to the outbreak of World War I.

**HIS 115 Violence and Strife  
in America — An Historical  
Perspective 3 sh**

This course is designed to develop an historical perspective on the process of violence as a recurring phenomenon in American history. It spans the period from the colonial era to the present. It will examine those factors which have produced violence, the nature of the acts committed, the perpetrators of violent acts and the impact of violence upon American political, economic and social institutions.

**HIS 120 History of Pennsylvania 3 sh**

This course examines Pennsylvania from its colonial beginnings to the present time. Special attention is given to the peculiar institutions and problems of the state, the diversity of the people, and the place of Pennsylvania in the American political and economic scene.

**HIS 131 History of Latin America:  
Colonial 3 sh**

This course begins with a survey of the Iberian and American backgrounds of the Latin American peoples. This is followed by a study of the Pre-Colombian Indians, exploration and colonization, colonial institutions and the Wars of Independence.

**HIS 132 History of Latin America:  
Modern 3 sh**

This course is a study of the history of the Latin American nations which have emerged since the Wars of Independence, 1825. Emphasis will be placed on the social, economic, political, cultural, and religious developments of these nations as well as the relationships of these nations to others in the hemisphere and the world.

**HIS 145 The Search for Social  
Justice in America 3 sh**

A study detailing changing American attitudes toward poverty, with particular emphasis on the development of social reform and social legislation, the transformation of welfare institutions, the emergence of social work as a profession and the rise of the welfare state.

**HIS 150 Minorities in American History 3 sh**

This course examines the experience of various minority groups — European, Black, Indian, Puerto Rican — in America.

**HIS 151 History of the Far East (A) 3 sh**

This course will survey the development of the people of East Asia with special emphasis on their traditional ideas, social trends and political institutions to about 1800.

**HIS 152 History of the Far East (B) 3 sh**

This course will examine the political, social and economic factors which have contributed to the modernization of China and Japan.

**HIS 155 History of the Middle East 3 sh**

This is a study of civilization that developed in the Middle East, culminating with the zenith of the Ottoman Empire in 1683. Similarities and differences with Western cultures will be stressed. The rise and spread of Islam as the major religion of the area will be of special interest in this study.

**HIS 170 Military History of the United States 3 sh**

This course will consider the evolution of the American military system, its employment in domestic and international affairs and its impact on American society.

**HIS 211 Russia From the 9th to 19th Century 3 sh**

A study of Russian history covering the period of its origins to the time of the Congress of Vienna. Primary emphasis is placed upon the political, economic, social, religious and cultural developments of Russian history and their impact upon Europe. **PREREQUISITES:** History of Civilization or Ancient World or Middle Ages, or permission of the professor.

**HIS 212 Imperial Russia and the Soviet Union 3 sh**

The continued development of autocracy during the 19th century and the culmination of unrest in the Revolutions of the early 20th century are the background setting for the course. The establishment of the Communist regime, its ideology, its cultural borrowings from the past and the continual interplay of the Soviet Union with the Western European nations, the United States and Asia are the primary points of interest.

**HIS 215 History of England 3 sh**

The rise and development of England and the British Empire will be surveyed from the pre-Roman era to the twentieth century. The course will emphasize the evolution of British political institutions.

**HIS 217 The Making of Modern England 3 sh**

This course will present the political, economic, social, intellectual, and religious history of England from 1830 to the present.

**HIS 218 The Age of Enterprise, 1865-1939 3 sh**

Designed to explore the emergence of the United States as a major economic and industrial power, this course examines various factors contributing to its industrial growth, benefits and problems accompanying this development, and consequences resulting from the economic changes.

**HIS 220 Ancient World 3 sh**

A survey of civilization as it emerged and developed in the Ancient Near East, followed by a detailed study of classical Greece and Rome.

**HIS 222 Italy in Modern Times 3 sh**

This course will investigate significant political and economic movements in modern Italian history. Focusing on the nineteenth and twentieth centuries, emphasis will be placed on those developments which have had broad impact, such as the Risorgimento, Fascism, and the Italian "Economic Miracle."

**HIS 225 A History of the Jewish People in Modern Times 3 sh**

The course begins with an introductory unit focusing on the emergence of the people of Israel and their traditions and the medieval meeting of Christians, Moslems, and Jews. Attention will then turn to an investigation of selected topics in the history of the Jewish people in modern times. Such topics include the socio-economic development of Jewish communities in Europe and America, anti-Semitism in 19th century Europe, Hitler's attempted "final solution" — the Holocaust, and the creation of the modern state of Israel.

**HIS 228 A History of Religion in America 3 sh**

This course will trace the religious history of the American people from colonial times to the modern period. It will examine American religious history within the larger frame of world history. Particular attention will be given to the diversity of American religious movements and the role of secular movements and convictions, some of which sought to supplant the churches.

**HIS 229 American Urban History 3 sh**

A study of the impact of urbanization on the development of the United States with emphasis on the forces and processes — political, economic, social, technological, as well as psychological — that played an important role in the rise of the city from the colonial period to modern times.

**HIS 235 Europe of the World Wars 3 sh**

This course begins with a survey of European conditions at the opening of the twentieth century. This is followed by a study of World War I and its settlement, the rise of the totalitarian states and their rivalries with the democratic states of Western Europe, the outbreak of the Second World War, the post-war settlement and the beginnings of the Cold War.

**HIS 240 Black American History 3 sh**

This course examines the Black American experience to present times. Topics for consideration include the African heritage, the slave trade, slavery as an institution, the civil and political status of Blacks during the Civil War and Reconstruction eras, the full development of economic, social and political segregation and the modern protest movement.

**HIS 241 History of Women in America 3 sh**

This course is a study of woman's role in American life tracing her effect on the nation's history.

**HIS 243 Business History of the United States 3 sh**

This course is a study of the historical development and influence of business in the United States from the colonial period to the present with an emphasis on the nineteenth and twentieth centuries.

**HIS 244 The Immigrant in American History 3 sh**

This course is a study of those ethnic groups which have become part of the American population from the colonial period to the present. Emphasis will be placed on late 19th and early 20th century immigration from Southern and Eastern Europe.

**HIS 245 The United States 1900-1945 3 sh**

This course is a topical examination of modern America from the times of Theodore Roosevelt through the end of World War II focusing on significant domestic, diplomatic, economic and social developments.

**HIS 246 The United States Since 1945 3 sh**

This course will investigate major trends in American history from the Second World War to the present. Attention will focus on significant political, diplomatic, economic, social and cultural developments during the period. Selected topics for consideration will include the growth of and challenges to presidential power,

America's changing role in world affairs, the meaning for the United States of the war in Vietnam, and the impact of prominent social movements on American society.

**HIS 248 History of American Labor 3 sh**

This course will examine the role of the worker in pre-industrial and industrial America. Emphasis will be placed on the development of the modern American labor movement with particular attention given to the American Federation of Labor and the Congress of Industrial Organizations.

**HIS 251 Revolutionary America 3 sh**

This course provides a comprehensive study of Revolutionary America, 1754 - 1789. It will examine the origins of the conflict, along with the major military, political, social, and cultural developments of the era.

**HIS 252 American Colonial History 3 sh**

This course provides an overview of the founding of the American colonies through 1763. The European influence on the colonial experience will be examined along with the establishment of social, political, and economic institutions.

**HIS 256 The Modern Middle East 3 sh**

This course is concerned with developments in the Middle East in the modern era, with an emphasis on the nineteenth and twentieth centuries. The interaction of the various national and religious groups and their impact on the modern world will be considered.

**HIS 257 Introduction to Public History 3 sh**

This course will provide an introduction to selected areas of the public history field for those students who would like to know more about career and employment opportunities outside of academic teaching and research.

**HIS 274 Honors: Tudor-Stuart England 3 sh**

The course will examine social and political developments in sixteenth and seventeenth century England, focusing on the changing nature and institutions of power and authority in English society.

**HIS 300 Diplomatic History of the United States 3 sh**

This course traces the evolution of American foreign policy from the era of the American Revolution through the post-Cold War contemporary era with a study of the major problems in foreign relations, which arose during that period. PREREQUISITE: History of the United States or other evidence that the student has an adequate background in American history.

**HIS 303 American Intellectual and Social History to 1865 3 sh**

This course is a study of social reform movements, religion, science, literature, education, and the arts from colonial days to the Civil War.

**HIS 304 American Intellectual and Social History from 1865 3 sh**

This course is a study of American society and thought as the United States moved from a rural agrarian basis to an urban industrial one. Special attention will be given to religious diversity, important scientific and literary trends in the arts, and the changing values and attitudes among Americans. Students will have the opportunity to investigate topics of interest during the last fifty years.

**HIS 310 Constitutional History of the United States 3 sh**

This course is a study of American constitutionalism and constitutional development from the debates of the Philadelphia Convention in 1787 to the civil rights issues of the post-World War II period. Constitutional issues such as states rights, the rights of minorities, and the expansion of executive power will be examined within the context of American cultural and economic development and governmental practice.

**HIS 325 The Middle Ages 3 sh**

This course is a study of the historical evolution of medieval European civilization, focusing on political and religious developments, economic and social changes, and intellectual and cultural achievements.

**HIS 330 Renaissance and Reformation 3 sh**

The Renaissance and Reformation eras are studied, stressing those forces and developments responsible for the creation of modern Western culture: the rise of secular society, the growth of humanism, the development of new artistic and literary forms and themes, the rise of the centralized state, and the religious controversies of the thirteenth to the sixteenth centuries and their impact on society and politics.

**HIS 335 Civil War and Reconstruction 3 sh**

This course will discuss the crisis of the Ante Bellum period, the conflict of the "War Between the States" and the successes, failures and legacies of Reconstruction.

**HIS 341 Problems in Slavery and Abolition 3 sh**

This course is an intensive investigation of the institution of American slavery and the attempts to eliminate it. The course content will emphasize some of the major controversies in historical literature regarding slavery.

**HIS 371 Intellectual History of Modern Europe 3 sh**

This course will examine and analyze the principal European intellectual and cultural movements of the seventeenth, eighteenth and nineteenth centuries. It will focus on the inter-relationship between systems of thought and historical action.

**HIS 372 Selected Topics in History 3 sh**

This course will study a selected topic in history. Students may take the course for credit no more than twice.

**HIS 376 Readings in History 3 sh**

This course provides history majors and other interested students the opportunity to explore historical topics in depth through selected readings, research and discussion. The instructor will decide which historical issues to consider in a particular semester, depending upon the special needs and interests of the group. This course is offered in the Fall semester only.

**HIS 380 Senior Seminar in History 3 sh**

This course presents readings and discussions in historiography, philosophy of history and historical method. Emphasis will be placed on various schools of thought and interpretations concerning specific historical problems. This course is offered in the Spring semester only.

**HIS 381 Twentieth Century Black Protest 3 sh**

This course is designed to study the ideas, theories and doctrines of various black leaders who attempted to change racial relations in Twentieth Century America. Focusing on significant individuals, students will examine the aims, objectives, strategies and accomplishments of Twentieth Century protest leaders.

**HIS 390 History Internship 3 - 15 sh**

A program designed to give the student a supervised, work-study experience in the functions and day-to-day operations of historical agencies, archives, museums, or sites — public or private. Open to qualified juniors and seniors majoring in history or related fields, the program consists of closely-supervised periods of employment and study arranged by the campus coordinator in the Department of History in consultation with the participating agency and the University. The number of semester hours and the number of clock hours will vary according to the program needs of the student and the requirements of the employing agency, from a minimum of 3 c.h. to a maximum of 15. The amount of time involved in the Internship and the number of credits

allowed for it will be approved by the Department of History, and the department coordinator will inform the student of any special prerequisites for particular internships.

**HIS 398 Honors Supplementary Research 1 - 3 sh**  
See page 155.**HIS 423 The American West 3 sh**

American migration from the Atlantic seaboard to the Mississippi Valley, together with Spanish and French penetrations in the West. The course also examines explorations, acquisition and settlement of the Trans-Mississippi West, and the American Southwest with evaluation of the influence of the frontier and its institutions on the total history of the United States.

**HIS 426 The Age of Jackson 3 sh**

The course will present the political, economic, social, intellectual and military history of the United States from 1826 through the 1850s. It will examine those factors that made this period a watershed epoch in American history. The great changes that were wrought in the United States during this period and their profound impact on the development of the nation and to what degree Andrew Jackson was responsible for these changes will be discussed.

**HIS 438 United States History Since 1914 3 sh**

This course is designed to investigate selected topics such as World War I, the 1920s, the Great Depression and the New Deal, World War II, post-war America and the Cold War.

**HIS 453 An Historical Analysis of Conflict and Revolution in Latin America 3 sh**

This course will draw upon historical, cultural, political and socio-economic materials in order to reveal the fundamental causes of the state of apparent chaos pandemic among the Latin American nations since they gained their independence. In so doing, the course challenges and counterbalances the traditional

country by country approach by offering a functional alternative that will enable the student of Latin American history to understand fully the working of institutions and the nature of processes in Latin America.

**HIS 456 Selected Topics in Medieval European History 3 sh**

This is an advanced study of significant topics in the history of western Europe from the collapse of the Roman Empire to the dawn of the modern era.

**HIS 462 Germany in the Twentieth Century 3 sh**

This is a survey of Germany in the Twentieth Century. Emphasis will be given to major intellectual developments, World War I and the collapse of the Empire, the Weimar Republic and the rise of Hitler, the cataclysm of the Second World War, the divided Germany of the Cold War, and the collapse of communism.

**HONORS SUPPLEMENTARY RESEARCH**

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

**INTERNATIONAL BUSINESS**

Course descriptions are given in the related College of Business sections.

**INTERNATIONAL STUDIES**

**INT 010 Introduction to International Studies 3 ch - 3 sh**

Students will examine and analyze contemporary world issues and events. Topics include global interdependence, the environment, modernization, intercultural understanding, nationalism, and international conflict and cooperation. This course is required for the International Studies minor. Offered fall and spring semesters.

**INT 101 Intercultural Communication 3 ch - 3 sh**

This course focuses on the newly emerging field of intercultural communication. The essential feature of the course is a presentation of the socio-psychological aspects of interaction among peoples who hold different values and assumptions. It emphasizes the analytic and comparative study of human communication in international settings in order to facilitate the learning of skills and techniques essential for successful cross cultural interaction. Subjects examined include variations and similarities in communication across cultures; the role of beliefs, customs, values, and norms in intercultural communication; and the interrelationships of society, culture, language and communication.

**INT 111 International Environmental Issues 3 ch - 3 sh**

This course will examine environmental topics from an international perspective. Emphasis will be placed on selected major environmental problems and their related social, economic and political ramifications. An analysis of the linkages between and among population size and food supplies, living conditions and health, the potential for climate change,

water and energy resources, and the role of technology in global interdependence will be presented.

**INT 201 Selected Topics in International Studies 3 ch - 3 sh**

This course is an analytical study of a selected topic in international studies. Topics will vary depending upon the timeliness of the subject matter, the interests of the instructor, and/or student demand. The course may be taken for credit twice provided that the same topic is not repeated. 3 semester hours. PREREQUISITE: INT 010 or permission of the instructor.

**INT 380 Seminar in International Studies 3 sh**

Under the supervision of selected faculty, students will be encouraged to integrate their studies from their major program with their minor area of concentration (international studies). Students will pursue a research project in their areas of interest and experience as evidenced by the courses they selected to fulfill the basic requirements for the minor in International Studies. Students will have the opportunity to discuss their research in class as well as to explore timely issues in international studies. PREREQUISITE: Completion or current enrollment in all other requirements for the minor in International Studies.

**INT 390 International Studies Internship 3 - 6 sh**

The internship is designed to provide students with first hand, practical experiences in a variety of international contexts. An internship will normally consist of an overseas project or an appropriate domestic project having a substantial international component. Examples include working for an international agency at an overseas site, for the United Nations and for a domestic agency servicing immigrants or refugees. The internship is open to students with a declared minor in International Studies who have completed sixty-four credit hours (Junior status) by the start of the internship. Minors may take the internship for three or six semester hours.

## **LIBRARY SCIENCE**

### **LIB 011 Information Needs and Services 3 sh**

The methods and materials of the librarian and his role as a resource specialist organizing and administering the specialized reference services of the library. Selection, critical examination, and development of skills in interpreting and using general reference aids, such as indexes, encyclopedias, atlases, dictionaries, yearbooks, handbooks, directories, etc.

### **LIB 018 Materials and Search Strategies: Humanities, Science, Social Science 3 sh**

The primary purposes of Materials and Search Strategies will be 1) to teach the use of the basic information resources of a broad discipline and 2) to develop an awareness of a search strategy to be used in seeking information. Content will be based on general and specific information needs of the student in a curriculum area. Not open to Library Science majors.

### **LIB 121 Resources for Children 3 sh**

Introduction to the basic principles, practices and resources needed for the selection and development of a library collection for children (print and non-print) in the school media center and public library. Survey and critical evaluation of children's literature as well as techniques for using materials in library and curricular settings.

### **LIB 122 Resources for Young Adults 3 sh**

Survey and critical evaluation of adolescent literature and related media. An introduction to the principles and resources utilized in the selection and development of a young adult collection.

### **LIB/AVC 125 Microcomputers in Education 3 sh**

The course will present undergraduate education students with a basic knowledge of how to effectively utilize microcomputers in education. Students

will be involved in "hands-on" experiences with computer operation and software programs that include word processing and desktop publishing, graphics, spreadsheets, databases, authoring systems and telecommunications. Microcomputer technologies utilized in the contemporary classroom will be examined. No previous knowledge or experience with microcomputers is necessary.

### **LIB 130 Folk Literature and Storytelling 3 sh**

A study of the principles of selection, adaptation and techniques of storytelling. Includes practical experience in storytelling to groups and planning story hour programs. A survey of folk literature, mythology, fables and modern stories provide the basis for stories to tell.

### **LIB 313 Cataloging and Classification 3 sh**

An introduction to the methods of cataloging and classifying library materials for effective use. It includes supervised laboratory periods in the preparation of unit cards, analytics, and other added entries, the purchase and adapting of printed cards, the use of a printed list of subject headings and assigning subject headings, the arrangement of the dictionary catalog and the use of computerized catalogs.

### **LIB 315 Collection Development 3 ch - 3 sh**

This course covers the principles of collection development and management with an emphasis on administrative concerns. It provides the student with the processes and procedures associated with developing, maintaining and evaluating a library collection. The prospective librarian is taught to view the collection as an active system, responsive to its environment and needs of the users.

### **LIB 320 Library Administration 3 sh**

An overview of the forms of organization and management of libraries. The librarian is viewed as both an educator and administrator. The course of study emphasizes the

fundamental principles and practices of librarianship and includes the study of the library in regard to patterns of service, management of personnel, planning and equipping libraries, and selection of materials — all in relation to modern educational practices.

### **LIB 326 Microcomputer Based Systems for the Library 3 sh**

This course introduces the primary hardware and software elements of microcomputer based library systems. Students will explore the installation and operation of circulation systems, on-line catalogs, CD-ROM reference tools, and linked learning stations. The Department of Library Science microcomputer classroom will be utilized to provide hands-on experience with representative software.

### **LIB 330 The Educational Program of the School Library Media Center 3 sh**

This course is designed to explore the school library media center and its relationship to the school curriculum. Students will learn curriculum design, lesson planning, teaching strategies. **PREREQUISITES:** Information Needs and Services I, Cataloging.

### **LIB 375 Field Work 3 sh**

Practical application of library routines and procedures in a school library media center (or a public library) under the supervision of a qualified librarian. Admission to this course is by permission of the University field work supervisor, or to students who are certified as teachers and wish to extend certification to include Library Science K-12, and to Liberal Arts majors preparing to qualify as Provisional Public Librarians. For the latter, fieldwork is performed in a public library not a school library.

### **LIB 380 Independent Study in Library Science 1 - 3 sh**

Independent Study is based on a student's pursuit of a subject in Library Science not covered within a regularly offered undergraduate course in Library Science. Undergraduate students may schedule this course for one to three credits in a

single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Library Science Department is required.

### **Library Practice and Professional Practicum**

Provides for the prospective school librarian the opportunity to observe and participate in the total school library program under the guidance of a certified professional librarian. This experience is designed in two phases (LIB 390 and LIB 391) within one semester. Concurrent with each phase is a Practicum which serves as the forum for discussion and evaluation of techniques observed and used in each experience.

### **LIB 390 Library Practice and Professional Practicum I 7 sh**

Emphasis is placed on establishing a proper working relationship with students and faculty, reading guidance, development of teaching skills, applying library theory and technical skills, and becoming aware of the various functions of the school curriculum.

### **LIB 391 Library Practice and Professional Practicum II 7 sh**

An extension of the first phase with emphasis on those aspects of librarianship where the student has had little experience or in which he has demonstrated a weakness. It is recommended that the activities in this phase be on a different level (elementary or secondary) from the previous experience and preferably in a different school district. A greater degree of competence and professional maturity is expected of the student during this phase.

### **LIB 431 Oral Tradition in the Library 3 sh**

A study of the theory and techniques of booktalking, preschool storytimes, storytelling and creative dramatics as they apply to the library setting. Emphasis will be placed on the student preparing and delivering each of these types of oral presentation. PREREQUISITE: Permission of the instructor.

### **LIB 440 Selected Topics in Library Science 3 sh**

Topics that are of current interest in the field of librarianship will be selected for in-depth study. Course content will change each time the course is offered. The course may be repeated once for credit. (Permission of the instructor)

### **LIB 471 Information Analysis and Retrieval 3 sh**

The basic principles and tools for information analysis and retrieval are considered in relation to database analysis, terminology control, question analysis, search strategy development, conducting searches, and the delivery of search results. PREREQUISITE: LIB 011.

## **MANAGEMENT**

Completion of the lower division core requirements is a prerequisite for every 300 level College of Business Course.

### **MGM 300 Principles of Management 3 ch - 3 sh**

An introduction to the field of management to give a basic understanding of the the process of reaching organizational goals efficiently by working with and through people and other organizational resources. The activities related to the managerial functions of planning, organizing, leading and controlling are examined.

### **MGM 315 Management Science 3 sh**

This course presents various quantitative techniques and models which are being utilized in today's modern business organizations. Coverage areas include model formulation, Markov theory, PERT/cost networks, linear programming (simplex method), the transportation model, and inventory control. It will employ test and case situations to provide the student with decision making experience as well as exposure to concepts necessary for successful management in the present complex and dynamic business environment. PREREQUISITE: MGM 300 and BUS 120.

### **MGM 318 Women in Management 3 ch - 3 sh**

This course examines issues which women face in the workplace particularly in managerial careers. Issues include stereotyping, sexual harassment, mentoring, mobility, compensation, employee relations, child care, and dual careers. The course emphasizes issue awareness and development of potential strategies which would facilitate change and promote equality in the workplace. Cases and experiential exercises are an integral part of the course. PREREQUISITE: MGM 300.

### **MGM 327 Small Business Management 3 sh**

A study of the rewards and problems experienced in starting and operating a small business. Emphasis is placed on those aspects of management, marketing, accounting, and finance that are uniquely important to small firms. PREREQUISITES: MKT 310, MGM 300.

### **MGM 335 Human Resource Management 3 sh**

In this course, students study the concepts, issues, methods and procedures involved in building and maintaining an effective workforce in an organization. Specific topics include recruitment, selection, appraisal, compensation, benefits, training/development, labor-management relations, discipline, workforce planning and similar functions. The focus will be on the staff human resource management unit of an organization as a way of organizing the study, but applications for every supervisor and manager will be readily apparent. Knowledge of this staff specialty is particularly useful in understanding overall business operations of the organization. PREREQUISITE: MGM 300 OR PERMISSION OF INSTRUCTOR.



**MGM 336 Human Resource****Management and Organizational Strategy 3 sh**

This course will examine the various roles of human resource management in organizations, especially the role in strategic planning. Students study the advisory, service, control and change agent roles played by human resources generalists and specialists in different organizational contexts and industries and how human resources policies, procedures and functions are integrated and coordinated within such organizations and industries. PREREQUISITE: MGM 300 or permission of instructor.

**MGM 337 Management of Labor Relations 3 sh**

Emphasis is placed upon the identification and analysis of the mechanics of the relationship between labor and management. The theory and environmental factors that affect the quality and content of union management relations will also be studied. Students study the history, legal and institutional framework, strike tactics, and contract administration process as they apply to management options. PREREQUISITE: MGM 300 or permission of instructor.

**MGM 338 Management of Compensation and Benefits 3 sh**

This course will examine the total compensation philosophy, strategy and policy of organizations and the economic factors affecting compensation. Students will learn how jobs are analyzed and how job descriptions and specifications are derived from such analysis. Job evaluations methods, job pricing, pay structures and pay rate administration are also scrutinized along with employee benefit programs and the philosophy, objectives, characteristics and types of such programs. PREREQUISITE: MGM 300 or permission of instructor.

**MGM 339 Management of Employee Relations, Health, Safety and Security 3 sh**

Emphasis is placed on managing the union-management relationship

through the administration of the collective bargaining agreement and the grievance and arbitration process. Employee policies and practices, including employee rights, performance appraisals and employee attitudes, opinions and satisfaction are examined. Issues and legalities relating to health, safety and security will also be studied. PREREQUISITE: MGM 300 or permission of instructor.

**MGM 340 Management of Staffing, Training and Development 3 sh**

This course will examine how to determine recruitment needs and objectives and the internal and external sources of applicants. The various aspects of the selection process will be studied along with the legal ramifications associated with that process. Training and development needs will be analyzed in light of an organization's goals, objectives, and strategies as well as federal legislation such as the Americans with Disabilities Act. PREREQUISITE: MGM 300 or permission of instructor.

**MGM 341 Labor Relations and the Law 3 sh**

A detailed description of not only the principle and rule of labor law but also of its historical and political context. The course takes a social science approach to labor law so that students who have little or no background in law will be able to appreciate and thereby understand its complexity. It emphasizes public labor policy and discusses how it operates rather than simply explaining the rules of law. PREREQUISITE: MGM 300 or permission of instructor.

**MGM 344 Research Methods for Managerial Decision Making 3 sh**

An introduction to research concepts and methods as applied to the analysis of management problems. Topics include problem development, research design, collection of data, sampling, data analysis, evaluation, and presentation of research reports. Particular emphasis is given to

techniques that contribute to research findings in management and their value in enabling managers to evaluate various types of research. PREREQUISITE: MGM 300.

**MGM 345 Organizational Theory and Design 3 ch - 3 sh**

An examination of intraorganizational patterns, processes and structures. The class focuses on how an organization's environment and technology interact with its structure and processes (such as decision making, power and politics, and organizational culture) to impact its performance. This course surveys concepts, theories and techniques that aid in analyzing this complex relationship. PREREQUISITE: MGM 300.

**MGM 350 Organizational Behavior in Management 3 sh**

This course examines the interaction and interdependence between the formal organization and the human being, emphasizing how human behavior and organizational processes can be integrated to achieve organizational effectiveness. The course draws on research in management and from psychology, sociology, and anthropology, to explore individual, interpersonal, group and organizational issues. PREREQUISITE: MGM 300.

**MGM 351 Operations Management 3 sh**

This course is designed as an introduction to the operation problems of a business organization with emphasis on the decision-making function of the manager. Areas covered will include operation planning and control, product development, inventory control, allocation of resources (linear programming), line sequencing and network programming (PERT). PREREQUISITES: MGM 300 and BUS 120.

**MGM 352 International Management 3 sh**

An analysis of the unique managerial problems encountered by the international, multinational and global

business enterprises. Emphasis is placed on the economic, technological, socio-cultural and political aspects of multinational operations and their effects on the managerial objectives, processes and strategic decision-making. PREREQUISITE: MGM 300.

**MGM 356 Management of Energy 3 sh**

A study of energy management in organizations. Coal, oil, natural gas, nuclear, solar, geothermal, and other sources are studied. Managerial options in production and consumption of each type of energy are considered, with particular emphasis on consumption. Attention is also paid to conservation, technology development, and public utilities. Estimation is made of future energy scenarios and their impacts upon management actions. The role of government in production, consumption and technology development is examined. PREREQUISITE: MGM 300.

**MGM 360 Business and Social Environment 3 sh**

A study of the environmental factors that interface business decision-making in contemporary society. A conceptual framework is developed to analyze and integrate the social, governmental, and economic issues that impact on the business community. Cases form an integral part of the course. PREREQUISITES: MGM 300, MKT 310.

**MGM 377 Business Strategy and Policy 3 sh**

A study of the determination and implementation of strategies by top management level. Emphasis is placed on the integration of the major strategies, managerial functions, and functional divisions of modern business organizations. PREREQUISITES: Senior standing.

**MGM 380 Senior Seminar in Management 3 ch - 3 sh**

The course serves as a capstone experience for students majoring in Management. The course consists of two components. The first is the

students' participation in a computer-based simulation game which integrates the major functional areas of business: accounting, finance, production, marketing and economics. The game allows the student to enter the dynamic world of business within a simulated environment and make decisions as if they were a manager. The second component of the course are seminar activities focusing upon advanced special topics of concern to the world of management as selected and determined by the particular instructor. PREREQUISITE: Senior Status.

**MGM 400 Innovation and Entrepreneurship 3 sh**

A study of the theories and practices associated with business innovation and entrepreneurship. This course will further evaluate the factors that encourage or hinder innovation; traits and roles involved with entrepreneurship, resource acquisition by new firms; and the overall management of business entry, organizational change, and innovation development. PREREQUISITE: Senior status (undergraduate).

## MARINE SCIENCE

**MAR/GEL 110 Introduction to Oceanography 5 ch - 3 sh**

**MAR/GEL 111 Introduction to Oceanography Laboratory**

An introductory course designed to introduce students from diverse backgrounds to the physical, chemical, biological and geological aspects of the oceans and to the methods and techniques of this rapidly expanding field. Emphasis is placed on lab and at-sea assignments which focus the student's attention on the interrelationship and unity of oceanography, and its relation to other environmental sciences.

**MAR/BIO 226 Marine Biology 5 ch - 3 sh**

**MAR/BIO 227 Marine Biology Laboratory**

A study of the major groups of marine organisms, their adaptations and

distribution within the marine environment. Laboratory work will include methods of sampling, identification, experimental manipulations, and a weekend field trip. PREREQUISITE: One year of Biology or permission of the instructor.

**MAR/GEL 237 Field Methods in Oceanography 5 ch - 3 sh**

**MAR/GEL 238 Field Methods in Oceanography Laboratory**

A course to familiarize students with the dynamic marine environment and field work on board small research vessels; to instruct in the use and application of standard oceanographic instruments and sampling devices; to promote and encourage independent research through the initial stages of a scientific project. PREREQUISITE: MAR 110-111 or consent of instructor.

**MAR 250 Wetland Ecology 5 ch - 3 sh**

**MAR 251 Wetland Ecology Laboratory**

The ecology and management of wetland wildlife, particularly of fresh-water marshes and saltwater marshes. Special emphasis on ecosystem approach.

**MAR/BIO 260 Invertebrate Zoology 5 ch - 3 sh**

**MAR/BIO 261 Invertebrate Zoology Laboratory**

A study of the invertebrate phyla with emphasis on development, reproduction, structure and function of selected marine organisms. Laboratory and field experience will be given in collection, preservation and classification of the phyla. PREREQUISITE: One year biology or consent of the instructor.

**MAR 280 Field Biology 5 ch - 3 sh**

**MAR 281 Field Biology Laboratory**

An introduction to basic principles of ecology and natural history of selected plants and animals in terrestrial, fresh-water, and marine environments. Course is suitable for non-science majors.

**MAR 298 Selected Topics****in Marine Science 1 - 3 sh**

A selection of individual topical courses developed to present information in a specific area of study. Course titles vary depending upon needs and interests to the students and expertise of the faculty. May be repeated for a total of six credit hours.

**MAR/BIO 326 Marine****Ecology 5 ch - 3 sh****MAR/BIO 327 Marine Ecology****Laboratory**

A study of the ecology of marine organisms, the relationships of plants and animals to the physical, chemical and biological factors and their zonation and community structure. Analysis of current issues in marine ecology will also be addressed. Laboratories will include classroom investigations of population and community relationships and a MANDATORY weekend field trip to Wallops Island, VA. PREREQUISITE: One year of college biology and MAR 110 recommended or consent of instructor.

**MAR 331 Chemical****Oceanography 5 ch - 3 sh****MAR 332 Chemical Oceanography****Laboratory**

This is the study of sea water, oceanic particulate matter and sediments in the context of chemical cycles, especially cycles of carbon dioxide, nutrients, metals and radioisotopes. Correlations are made between chemical cycles having periods from years to thousands of years and biological and physical processes. Correlations are made between chemical cycles having longer periods and geochemical processes. Measurements of the concentrations of major ions, trace elements and nutrients in sea water are made by wet chemical and physical methods. PREREQUISITES: MAR 110 General Chemistry I and II or consent of the instructor.

**MAR/BIO 340 Marine****Mammals 5 ch - 3 sh****MAR/BIO 341 Marine Mammals****Laboratory**

The distribution, population size, physiology, evolution, adaptations and ecological relationships of marine mammals will be studied with an emphasis on mammals of the Atlantic Ocean. This course will stress hands-on understanding of marine mammal physiology, behavior, population dynamics and species diversity. Laboratory and field work will include an extended off-campus field trip to facilities holding and/or studying marine mammals of the NE Atlantic Ocean. In addition, the laboratory portion of this course will emphasize data collection in the field, and subsequent analysis and presentation of the data through a required mini-research project. PREREQUISITES: Five courses in biology, and at least Junior class standing prior to the start of the course or permission of the instructor.

**MAR 342 Ichthyology 5 ch - 3 sh****MAR 343 Ichthyology Laboratory**

A study of the fishes. Specimens collected along our Eastern Seaboard by the student will be used to illustrate the anatomy, physiology and systematics of this major vertebrate group. Field collections will also give the student the opportunity to observe the relationships of these animals to their biotic and physical environment. PREREQUISITE: General Biology and/or Zoology, or consent of the instructor.

**MAR/BIO 344 Marine****Botany 5 ch - 3 sh****MAR/BIO 345 Marine Botany****Laboratory**

A study of marine and marine fringe plants of the Middle Atlantic Coast, their taxonomy, ecology, distribution, life histories, physiology, and economic status. Techniques of collecting, preserving, identifying and herbarium cataloging will be stressed. Exercises in plant ecology, deep core pollen analysis and marine microbiology will be included. PREREQUISITE: A course in general Biology and/or one semester of Botany or consent of the instructor.

**MAR/GEL 350 Sedimentation****Lecture 5 ch - 3 sh****MAR/GEL 351 Sedimentation****Laboratory**

The basic composition, transport, diagenesis and distribution of sediments are introduced by means of lectures and laboratories. PREREQUISITES: GEL 100-101 and either GEL 102-103, GEL 366-367 or permission of instructor.

**MAR/GEL 358 General****Geophysics 5 ch - 3 sh****MAR/GEL 359 General Geophysics****Laboratory**

The study of earthquake seismology and the basic geophysical methods such as gravity, magnetics, seismic refraction, seismic reflection, electrical resistivity, and electro-logging. The laboratory exercises and field work using portable geophysical equipment will familiarize the students with the various methods used to collect and interpret geophysical data. PREREQUISITES: GEL 100-101 or MAR/GEL 100-111, PHY 040-041, PHY 042-043 or PHY 100-101, PHY 102-103.

**MAR/BIO 360 Anatomy of Marine****Chordates 5 ch - 3 sh****MAR/BIO 361 Anatomy of Marine****Chordates Laboratory**

A course designed to familiarize the students with the qualitative aspects of the speciation process; to lay the groundwork for understanding the basic and specialized structure of marine chordates; to trace the most obvious or important trends (and their functional significance) in the evolution of this basic structure in various vertebrate lines. The laboratories will be devoted in large to a reasonably thorough dissection of representative marine vertebrates particularly those collected live on field trips. PREREQUISITE: Six semester hours of biology including general zoology.

**MAR 364 Physical Oceanography 3 sh**

This course is a study of the physical properties of the oceans which include: mass and energy budgets; the cause, nature, measurement, analysis and prediction of tides, currents and waves, and basic instrumentation

used in field work. PREREQUISITE: MAR 110-111, one year Physics, Algebra and Trigonometry and one semester Calculus or consent of the instructor.

**MAR/GEL 366 Marine Geology** 5 ch - 3 sh

**MAR/GEL 367 Marine Geology Laboratory**

A study of the structural and sedimentary environments of the continental shelf, slope, and ocean basin. The crustal structure of the earth and its relation to the sedimentary record and geologic history of the oceans is examined. Sampling and laboratory procedures used by the marine geologist are introduced to the students. PREREQUISITE: MAR 110-111 and GEL 100-101 Physical Geology or consent of the instructor.

**MAR 370 Independent Research in Marine Science** 1 - 3 sh

This course is designed to allow a student to study individually in a specialized area under the direction of a faculty member. The research topic must be appropriate to the student's background and approved by the faculty member directing the student. PREREQUISITE: Senior level with an emphasis in Marine Science having completed at least 20 credit hours in Marine Science Courses.

**MAR 380 Senior Seminar in Marine Science** 2 sh

Readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Marine Science. Required of all liberal arts students majoring in Marine Science.

**MAR 390 Internship in Marine Science** 1 - 4 sh

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience

should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements. PREREQUISITE: Junior and Senior standing and approval of department head.

**MAR 398 Honors Supplemental Research** 1 - 3 sh  
See page 155.

## MARKETING

Completion of the lower division core requirements is a prerequisite for every 300 level College of Business course.

**MKT 310 Principles of Marketing** 3 sh

A broad study of the field of marketing as seen from a managerial perspective. Emphasis will be on demand analysis, customer need satisfaction, product planning and development, distribution selection, promotional decision-making, price determination and social responsibility.

**MKT 312 Consumer Behavior** 3 ch - 3 sh

A study of the processes of planning, purchasing and using goods and services by consumers. The course shall demonstrate the link between behavioral concepts and marketing strategy. The process of consumer decision-making will be investigated. The influence of both intra-personal and inter-personal variables on decision-making will be emphasized. The application of consumer behavior to the elements of strategic marketing — including market segmentation, product positioning, product development, marketing communications, in-store stimuli, distribution and pricing will be illustrated. Social and ethical considerations of marketing responsi-

bility to consumers will also be addressed. PREREQUISITE: MKT 310.

**MKT 320 Marketing Management** 3 sh

This course emphasizes managerial decision-making and problem-solving in such areas as product development, pricing, promotion and distribution. Focus is upon the concepts and techniques a firm must employ to anticipate and satisfy consumer needs. Text, case analysis and readings are utilized to give experience in managing the components of the marketing mix. PREREQUISITES: MKT 310 and MGM 300.

**MKT 330 Personal Selling** 3 sh

An approach with emphasis on developing techniques of professional selling in all areas involving personal sales positions. Personal Selling focuses on basic theory, functions, principles, practices, techniques, applications, sales demonstrations and presentations. PREREQUISITE: MKT 310 or Junior standing.

**MKT 332 Sales Management** 3 ch - 3 sh

Sales Management examines the strategic planning and tactical implementation of salesforce: organization, recruitment, selection, training, compensation, motivation, supervision, territories, quotas, budgets and performance evaluations. PREREQUISITE: MKT 310 and MGM 300.

**MKT 340 Retail Management** 3 ch - 3 sh

This course is a study of the administration and control of retail merchandise operations, or their equivalents, in the offering of services. It covers the fundamental principles of store management, location, selection and training of personnel, budgeting, buying and processing merchandise, pricing, and sales promotion. In addition, some attention is given to the increasing role and numbers of service and not-for-profit retailers. PREREQUISITE: MKT 310.

**MKT 347 New Product****Management 3 sh**

A study of the search for new product and service ideas and their development and evaluation. The course shall take a conceptual approach to the marketing management problems, techniques and strategies necessary to implement and manage new and existing product offerings. Social and environmental issues and their relationship to the product planning process will be examined along with the assessment of the product mix and its relation to the strategic marketing plan. The elements of product marketing plans — including target identification, market product design, packaging, branding, labeling, distribution, pricing and promotion will be addressed. A focus will also be placed on the control of new products and management decision making at the mature and decline stages of product life cycle. PREREQUISITES: MKT 310, MGM 300.

**MKT 350 Advertising****Management 3 ch - 3 sh**

This course emphasizes planning, implementation, control and use of advertising. The primary focus is directed towards providing the student of advertising with practical experiences and knowledge to develop effective advertising. Areas of concentration include the marketing communication process, basic media choices and strategy, target markets, creation of advertising, creative strategy and copy writing, audience analysis and buyer behavior, developing advertising campaigns and social, ethical and legal aspects. PREREQUISITE: MKT 310. Junior standing.

**MKT 351 Media Concepts and Planning****3 sh**

Media Concepts and Planning is developed and designed to increase the student's ability to analyze media problems and to solve those problems via media solutions. Emphasis of this course will be on media planning although major media concepts will also be covered. In addition, media

"math" and media research will be addressed. Advertising and marketing research will be addressed and advertising media's role within this research will be explored. PREREQUISITE: MKT 350 Advertising Management.

**MKT 355 Services Marketing 3 sh**

This course examines the service marketing environment, positioning strategy, customer mix and demand, service policy, pricing policy, communication and promotion policy, and channels of distribution. The nature, variety and impact of services are addressed. PREREQUISITE: MKT 310.

**MKT 357 Advertising Campaigns 3 sh**

This will be an upper-division advanced advertising course. The course will be based on theoretical and pragmatic approaches to developing effective advertising campaigns. In general, the student will gain a theoretical background on advertising campaigns, and develop and implement an actual campaign. The course will culminate with an entry into the American Advertising Federations (AAF) National Student Advertising competition. There are more than 140 colleges and universities involved in this competition. The AAF is the only advertising organization that has a branch involved in student education. PREREQUISITE: MKT 350.

**MKT 360 Marketing Research 3 sh**

An analysis of survey methods in marketing with emphasis on the use of quantitative and statistical tools and models. Specific attention is given to problem definition, kinds of inquiry for gathering data, methods of analysis, decision theory, and organizational and administrative provisions for relating research to management decisions. PREREQUISITE: MKT 310.

**MKT 370 International****Marketing 3 ch - 3 sh**

A study of the process of focusing the resources and objectives of an organization on global market opportunities. The course shall take a broad conceptual approach to the marketing

management problems, techniques and strategies necessary to incorporate the marketing concept into the framework of the world marketplace. Emphasis is placed on the necessity of program as well as the problems of competing in markets of different cultures. World-wide consumerism as well as the inherent social and ethical issues which arise when a multinational corporation ventures into foreign cultures will be addressed. PREREQUISITES: MKT 320.

**MKT 371 Selected Topics****in Marketing 3 ch - 3 sh**

This course will permit the exploration of specialized subjects that are not covered in the regular marketing classes. The course will emphasize a variety of current topics and contemporary issues in marketing which are taking place in a dynamic business environment. Students will review current literature, observe current marketing practices and improve their ability to analyze and express their thoughts in the area. PREREQUISITE: MKT 310 Principles of Marketing.

**MKT 375 Export Marketing 3 sh**

This course deals with formulating strategies and developing marketing skills necessary to succeed in global markets through exporting. The course content includes such topics as the assessment of company readiness to export, export market potential analysis, national and international regulations, export marketing plans and programs, logistics and payments. PREREQUISITES: MKT 310 and MKT 370.

**MKT 380 Senior Seminar****in Marketing 3 sh**

This course is a capstone course which emphasizes acquired student knowledge in accounting, economics, finance, law, statistics, management, and marketing through a computer simulation. The course is also designed to focus on current marketing issues through discussions, presentations and class exercises. PREREQUISITES: Second semester senior standing or permission of the instructor.

**MKT 411 Marketing Communications Management 3 ch - 3 sh**

This course considers the managerial impact of the promotional mix of advertising; public relations/publicity; sales promotion and personal selling; and the impact of the promotional mix on marketing communication.

**MATHEMATICS**

**MAT 101 or MAT 015**

*(NOTE: No student may receive credit for both MAT 101 and MAT 015.)*

A course designed to acquaint the student with the nature and spirit of mathematics. Not open to Secondary Education Mathematics majors or Arts and Sciences Mathematics majors.

**MAT 015 Introduction to Mathematics (All students except above) 3 sh**

MAT 015 is for all university students other than Elementary Education, Special Education and Mathematics majors. Set theory; logic; mathematical systems; equations and inequalities; linear systems and linear programming; introduction to probability and statistics. Note: No student may receive credit for both MAT 101 and MAT 015.

**MAT 030 Survey of Mathematics 3 sh**

Sets and logic; number systems; relations and functions; introduction to matrices; linear systems; counting and probability; sequences and limits; introduction to differential and integral calculus. Not open to Secondary Education Mathematics Majors or Arts and Sciences Mathematics Majors.

**MAT 040 Geometry 3 sh**

An informal, intuitive study of topics in geometry. Non-metric geometry of the plane and space; measurement; error in measuring; simple closed curves; area; congruence; similarity; graphing in the plane and space; modern geometries; groups of geometric transformations. Not open to Arts and Sciences Mathematics majors.

**MAT 101 Fundamentals of Mathematics I 3 sh**

The first course in a two course sequence. Problem solving; logic; set theory; mathematical systems; systems of numeration; number theory; equations and inequalities; properties of whole numbers, integers, rational numbers and real numbers. Required of all Elementary Education and Special Education Majors. MAT 101 is a prerequisite for MAT 102 and ELU 308. (Another higher level may be substituted but only with the approval of the Program Chair and MAT Chair.)

**MAT 102 Fundamentals of Mathematics II 3 sh**

The second course in a two course sequence. Informal geometry; LOGO; measurement; probability and statistics and computer applications. Required of all Elementary Education and Special Education Majors. MAT 101 is a prerequisite for MAT 102. MAT 101 and MAT 102 are prerequisites for ELU 308.

**MAT 105 Elementary Functions I 3 sh**

Properties of the real number system; inequalities; absolute value, algebraic functions and transformations; theory of equations, systems of equations. Not applicable toward the Secondary Education Mathematics major or Arts and Sciences Mathematics majors. Cannot be taken by any student who has already taken MAT 115. PREREQUISITE: Two years secondary school level algebra.

**MAT 106 Elementary Functions II 3 sh**

Functions; inverse functions; exponential and logarithmic functions; trigonometric functions and inverse trigonometric functions; complex numbers; trigonometric equations. Not applicable toward the Secondary Education Mathematics major or Arts and Sciences Mathematics majors. Cannot be taken by any student who has already taken MAT 115. PREREQUISITE: Elementary Functions I or its equivalent.

**MAT/CIS 112 Basic Programming 3 sh**

This course is designed to help the student develop sound programming methodology using the BASIC language. An algorithmic approach and top-down design are presented in the solution of problems. Topics include one and two dimensional arrays, processing string data, subroutines, functions, data files, sorting and searching, and matrices. Not applicable towards any Mathematics or CIS majors.

**MAT 115 Precalculus Mathematics 3 sh**

This course is designed to give a thorough review of pre-calculus mathematics and is intended for students planning to enter the calculus sequence. The real number system; plane coordinate systems; functions; polynomial and rational functions; trigonometric functions; invertible functions; exponential and logarithmic functions; mathematical induction; conic sections; the complex number system. Not applicable toward the Secondary Education Mathematics major or Arts and Sciences Mathematics major. Cannot be taken by any student who has already taken either MAT 105 or MAT 106. PREREQUISITES: At least 3 years of high school mathematics, beginning with Algebra I and including Trigonometry.

**MAT 121 Mathematics for Business & Information Science 3 sh**

This course includes a review of elementary algebraic concepts, systems of linear equations, matrix algebra, linear programming, probability and statistics. The course will focus on the applications of mathematical concepts and procedures to problems arising in Business and Information Sciences.

**MAT/CIS 135 Computer and Information Science I 3 sh**

An introduction to computer components; algorithmic design and the constructs of structured programming; elementary data types and data operations; programming in a high level language; one- and two-dimensional arrays; subroutines and top-down, modular, step-wise programming;

computer solution of several numerical and non-numerical problems.  
PREREQUISITE: MAT 105 or its equivalent.

**MAT/CIS 136 Computer and Information Science II 3 sh**

This course extends the topics developed in MAT/CIS 135. Also covered are: concepts of algorithmic analysis; string processing; recursion; search and sort methods; and simple data structures. A sizeable project involving the university's computing resources will be undertaken.  
PREREQUISITE: CIS/MAT 135.

**MAT/CIS 140 Applied Statistical Methods 3 sh**

An introduction to quantitative methods in the biological and behavioral sciences. Techniques for obtaining, analyzing and presenting data in numerical form; measures of central tendency and dispersion; normal distribution curve; standard scores; applicability of probability and sampling theory to research in the biological and behavioral sciences; interpretation of confidence intervals; hypothesis testing; correlation; linear regression. Not open to Secondary Education Mathematics majors or Arts and Sciences Mathematics majors.  
PREREQUISITE: MAT 105 or its equivalent.

**MAT 175 Mathematical Investigations 3 sh**

This course is applicable in the Honors Program and is open to any student in the honors program as well as to any student having completed at least 15 s.h. of study at Kutztown University with a grade point average of 3.00 or greater. This course, divided into three to five segments, provides for study of concepts, procedures and applications in several mathematical disciplines. Topics studied will be drawn from the following areas: mathematical thought processes, history of mathematics, mathematics of finance, statistics, operations research, number theory, graphs as mathematical models, and finite geometries. This course cannot be taken for credit by mathematics

majors in Secondary Education or the College of Liberal Arts and Sciences. Credit for the course can be applied in Categories IV or V in General Education.  
PREREQUISITES: at least three years of high school academic mathematics, including trigonometry, or permission of the department chair.

**MAT 205 Mathematics of Finance 3 sh**

A practical course designed to provide the student with the information and computational skills necessary for a lifetime of financial decisions. Includes instruction in the use of calculators. Topics include simple interest, bank discount, and compound interest rate calculations with applications to loans, installment purchases, mortgages, savings accounts and other investments; ordinary and life annuities; straight life, term and endowment insurance. Not applicable toward the B.A. in Mathematics or to the B.S. in Mathematics, Tract III.

**MAT 215 Advanced College Algebra 3 sh**

Mathematical induction; permutations and combinations; the binomial theorem; complex numbers; polynomials in one variable; algebraic equations and their roots; limits of roots; rational roots; cubic equations; biquadratic equations; approximation of roots. Not applicable to the Arts and Sciences Mathematics majors.  
PREREQUISITES: MAT 105 and MAT 106 or the equivalent.

**MAT 220 History of Mathematics 3 sh**

A study of mathematics as it has developed through the centuries and the mathematicians who have contributed to its growth. Mathematics of early Babylonian and Egyptian civilizations; mathematics under Greek influence; Chinese, Hindu and Arabic contributions; the Renaissance period; Seventeenth and Eighteenth Century mathematics; the liberation of geometry and arithmetization of analysis of the Nineteenth Century; Twentieth Century mathematics. Not applicable toward the Arts and Sciences Mathematics major.  
PREREQUISITES: MAT 105 and MAT 106 or their equivalent.

**MAT 221 Calculus for Business and Information Science 3 sh**

This course includes the basic elements of differential calculus; applications of the derivative to optimization problems; and the derivative applied to curve sketching. The basic elements of integration with applications are examined.  
PREREQUISITE: MAT 121 or permission of the instructor.

**MAT 224 Foundations of Mathematics 3 sh**

This course is designed to prepare the student for the study of advanced mathematics. Topics include fundamentals of logic, proof strategies, the algebra of sets; relations, including equivalence relations; functions and their properties; countable sets and counting techniques; ordered and well-ordered sets. This course should be taken only after the student has taken at least two college-level mathematics courses.

**MAT 225 Discrete Mathematics 3 sh**

Review of set theory; functions, relations; Boolean algebras; lattices and propositional logic; abstract algebras, groups and semigroups; homomorphisms and isomorphisms; phrase structure grammars; graphs and digraphs; applications to computer and information science.  
PREREQUISITES: MAT 224 and CIS 136.

**MAT 230 Statistics 3 sh**

Fundamental principles and methods of statistics used in scientific research; understanding of and ability to use graphs; frequency distributions, measures of central tendency and dispersion; normal curve; correlation; regression and prediction; reliability of statistical measures; curve fitting; random variables; density functions; scatter diagrams; distributions and their properties; inference. Not applicable toward the Arts and Sciences Mathematics majors.  
PREREQUISITE: MAT 105 or its equivalent.

**MAT 240 Synthetic Geometry 3 sh**

This course is designed for students who have, in addition to an interest in geometry, some previous experience



in this subject area, either on the high school or college level. Topics include Euclidean geometry using Hilbert's axioms; neutral geometry; the historical development of non-Euclidean geometries; and hyperbolic geometry. PREREQUISITE: MAT 224.

**MAT 260 Linear Algebra 3 sh**

This course gives the student an opportunity to make an in-depth investigation of a specialized area of mathematics which has wide-spread practical applications in the arts and sciences but still allows work with abstract concepts. A study of the properties of vector spaces; matrix theory with applications using systems of equations and determinants; linear transformations and invariants under such mappings. PREREQUISITE: MAT 224.

**MAT 271 Calculus with Analytic Geometry I 3 sh**

Relations and functions; graphs; limits and related concepts; continuity; differentiability; differentiation and applications; derivative tests.

**MAT 272 Calculus with Analytic Geometry II 3 sh**

Anti-differentiation and applications; definition and properties of the definite integral; applications of the definite integral; differentiation and integration of logarithmic, exponential and trigonometric functions with applications; derivatives and integrals involving inverse trigonometric functions. PREREQUISITE: MAT 271.

**MAT 273 Calculus with Analytic Geometry III 3 sh**

Additional techniques of integration; indeterminate forms; improper integrals; Taylor's formula; sequences, series and convergence tests; differentiation and integration of power series; Taylor and binomial series. PREREQUISITE: MAT 272.

**MAT 274 Calculus with Analytic Geometry IV 3 sh**

Vectors in two and three space; solid analytic geometry and related concepts; properties of functions of more than

one variable; partial differentiation and applications; multiple integrals and applications. PREREQUISITE: MAT 273.

**MAT 301 Probability and Statistics I 3 sh**

Elementary probability spaces; conditional probability; general probability spaces; random variables; expectation; variance; multivariate distributions; the algebra of expectation. PREREQUISITE: MAT 273 and MAT 224.

**MAT 302 Probability and Statistics II 3 sh**

Probability distributions; sampling; estimation of parameters; Central Limit Theorem; confidence intervals; correlation and regression; sampling from a normal population; testing hypotheses; Markov chains. PREREQUISITE: MAT 301.

**MAT 311 Abstract Algebra I 3 sh**

Sets, relations, and functions; groups; rings; integral domains; fields; elementary theory of groups. PREREQUISITE: MAT 224.

**MAT 312 Abstract Algebra II 3 sh**

Extension of Abstract Algebra I topics; permutation groups; normal subgroups and quotient groups; rings and ideals; ring homomorphisms; quotient rings, integral domains and their fields of quotients; fields; polynomial rings. PREREQUISITE: MAT 311.

**MAT 320 Geometry and the Real Numbers 3 sh**

Elementary group properties; basic properties of elementary transformations; motions of the Euclidean plane; transformations of similarity; affine transformations. PREREQUISITE: MAT 224.

**MAT 330 Theory of Numbers 3 sh**

Divisibility theory in the integers; primes and their distribution; basic properties of congruence; linear congruences; Fermat's Theorem; number theoretic functions; Euler's phi-function; primitive roots and indices; quadratic reciprocity. PREREQUISITE: MAT 224.

**MAT 332 Numerical Analysis 3 sh**

Numerical methods fundamental to scientific computing are developed. Topics include finite difference calculus; zeros of a function; matrix computations; solutions to systems of linear equations; approximation by polynomials; numerical differentiation and integration; numerical solutions of ordinary differential equations; rounding errors and other types of errors. Selected algorithms will be run on the computer. PREREQUISITES: CIS/MAT 135, MAT 260 and MAT 273.

**MAT 340 Differential Equations 3 sh**

Theory and methods of solving ordinary differential equations are investigated — equations include first order, linear and systems; methods of solutions include exact, substitution, reduction, undetermined coefficients and variation of parameters. Consideration is given to application to the physical and natural sciences. PREREQUISITE: MAT 273.

**MAT 351 Advanced Calculus I 3 sh**

Introduction to the structure of the real number system and its topology; metric space and its topology; basic theorems of real analysis; differentiable functions. PREREQUISITES: MAT 260 and MAT 273.

**MAT 352 Advanced Calculus II 3 sh**

Introduction to the theory of Riemann-Stieltjes integration; functions of bounded variation; Lebesgue measure and Lebesgue integrals; uniform convergence of sequences and series of functions. PREREQUISITE: MAT 351.

**MAT 361 Mathematical Methods in Operations Research 3 sh**

Operations Research uses quantitative methods to determine the best decision for an operating system. A mathematical approach to studying methods as applied to the decision process in industry is taken. The methods studied are selected from among linear programming; game theory; mathematical programming; graph theory and network analysis; and queuing theory. PREREQUISITE: MAT 260 or permission of the instructor.



**MAT 370 Selected Topics  
in Mathematics 3 sh**

This course involves individual or small group independent study in some area of mathematics under the direction of a mathematics staff member. This study can be made in any area of mathematics or mathematical application. A student may register for this course more than once up to a maximum of six semester hours of credit. **PREREQUISITES:** Consent of the student's advisor, instructor and department head and their approval of the project.

**MAT 380 Senior Seminar  
in Mathematics 3 sh**

Readings and discussions in areas of student interest and background. The student reviews and structures the mathematics he/she has learned and also explores mathematical topics not covered in the usual course offerings. The comprehensive examination for Arts and Sciences Mathematics majors is given in conjunction with this course. Required of all arts and sciences mathematics majors.

**MAT 398 Honors Supplementary  
Research 1 - 3 sh**  
See page 155.

**MAT 431 Topology I 3 sh**  
Set theory; functions; metric spaces; basic topological concepts; topologies and neighborhood systems; open and closed sets; accumulation points and closures; bases and subbases for a topology; separation and connectedness; nets; continuity and homeomorphisms; compactness; product and quotient spaces. **PREREQUISITES:** MAT 272 and MAT 311.

**MAT 473 Partial Differential  
Equations 3 sh**  
Equations of first order, Hamilton-Jacobi theory; the Cauchy Problem; the Dirichlet and Newman problems, Existence Theorems; Green's Functions; Equations of mathematical physics; integral equations. **PREREQUISITE:** An introductory differential equations course.

## **MATHEMATICS EDUCATION**

**MAU 415 Learning and Teaching  
Mathematics 3 sh**

The nature of mathematics and mathematical thought processes; current views on the learning and teaching of mathematics; problem-solving; discovery learning; meaningful instructional objectives; individualizing instruction in mathematics; aids to instruction; instructional strategies in mathematics education. Open to Senior Secondary Education Mathematics majors, Senior Elementary Education majors with a Mathematics Concentration and to graduate students in mathematics education.

**MAU 425 Middle School  
Mathematics 3 sh**

This course is designed to prepare both elementary and secondary teachers to teach mathematics in the middle school. Various instructional strategies will be examined and discussed. A significant portion of the course will be devoted to the content and methods of middle school mathematics. The course will include the presentation of some activities that middle school students can use to discover mathematical concepts. Open to Senior Secondary Education Mathematics majors; Senior Elementary Education majors with a Mathematics Concentration and to graduate students in mathematics education.

## MEDICAL TECHNOLOGY

The following courses are offered specifically, and only, to Medical Technology students who have been accepted for a year of clinical experience in a hospital program that has been approved by the National Accrediting Agency for Clinical Laboratory Sciences. These courses are offered only in the hospital-clinic setting. The students, upon successful completion of the program, will receive a combined total of 30 credit hours.

### **MED 320 Clinical Microbiology** 6 - 10 sh

Identification and clinical pathology of bacteria, fungi, viruses and parasites. Techniques to isolate, stain, culture and determine antimicrobial susceptibility. Instrumentation; quality control.

### **MED 330 Clinical Chemistry** 6 - 10 sh

Enzymology, endocrinology, biochemistry of lipids, carbohydrates and proteins, metabolism of nitrogenous end products, physiology and metabolism of fluids and electrolytes, and toxicology as related to the body and diseases. The technical procedures include colorimetry, spectrophotometry, electrophoresis, chromatography, automation and quality control.

### **MED 340 Clinical Hematology/Coagulation** 6 - 10 sh

The composition and function of blood; diseases related to blood disorders; the role of platelets and coagulation. Manual and automated techniques of diagnostic tests for abnormalities.

### **MED 350 Clinical Immunohematology** 3 - 6 sh

Blood antigens, antibodies, cross-matching, hemolytic diseases, and related diagnostic tests. An in-depth study of blood donor service and its many facets such as transfusions, medico-legal aspects, etc.

### **MED 360 Clinical Immunology/Serology** 2 - 4 sh

Immune response, immunoglobulins, autoimmunity and complement and related tests and diseases. Survey and demonstration of serological diagnostic tests.

### **MED 370 Clinical Seminar** 1 - 6 sh

Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) and/or are unique to the individual hospital program.

## MICROCOMPUTERS

### **MIC 010 Microcomputer Applications** 3 sh

This course provides an introduction to microcomputers and their applications, including word processing, spreadsheets, databases, graphics, and the integration of software in a page layout package. Using either Macintosh or IBM-compatible microcomputers, the students will gain "hands-on" experience with current equipment and software. The type of microcomputer to be used in each section will be designated in each semester's master schedule. To be of greatest benefit, this course should be taken early in the student's college program. This course can only be counted under Category 5 of general education. PREREQUISITE: None.

### **MIC/FAR 021 Microcomputer Graphics** 3 sh

This course is designed to allow students to explore the graphic capability of a microcomputer. No programming experience is required. Topics will include: word processing, object-based drawing, Postscript-based drawing, scanned images, paint-based drawing and desktop publishing. This course is not applicable anywhere in Category IV of General Education. PREREQUISITE: None.

## MILITARY SCIENCE

**Only credits earned in MIL 102 and MIL 113 will count toward a KU degree (6 hours total).**

### **MIL 013 The Soldier in Modern Times** 1 ch - 1 sh

Examination of U.S. Army as an institution. Army's history, customs, traditions. Highlights role and function of the Reserve Officers Training Corps.

### **MIL 014 Leadership and Group Dynamics** 1 ch - 1 sh

Examines the role of the individual within the military group in an organizational context, and in terms of his/her contribution to group goal accomplishment. Provides the basis for understanding: group dynamics; the relationship of individual differences to group performance; the necessity for effective communications; society's influence on military group and individual behavior; and formal organizational constraints on the leadership process.

### **MIL 021 Topographical Analysis and Land Navigation** 2 ch - 2 sh

Examines the use of topographic maps used for terrain analysis and land navigation. Emphasis is on application and field exercises at individual and small group levels. Basic concepts of geography are taught to provide an overview of the major topographical land features and their military application.

### **MIL 022 Leadership Theory and Development** 2 ch - 2 sh

Examines the contemporary theories of leadership to include leadership traits, indicators and principles. Analyzes the philosophies of leadership so as to emphasize the interpersonal and managerial skills requisite of a commissioned officer. The Leadership Assessment Program is taught to all students.

**MIL 070 Military Science Leadership  
Lab I 2 ch - 0 sh**

Basic Military Science leadership lab. Exposes student to a variety of opportunities for development both as an individual and as a member of a small group. Adventure/"hands on" type activities emphasized. One-two hour period per week, location dictated by type activity being conducted. Required enrollment for students in any one/combination of the following courses: MIL 013, 014, 021, 022.

**MIL 101 Advanced Military  
Skills 3 ch - 3 sh**

The course reinforces previously taught leadership principles and teaches the individual and collective skills required for leading a small unit in a tactical situation. Principles of war, small unit tactical planning, tactical techniques of the soldier, team leading techniques, oral communications, and trainer skills are introduced in the classroom and practiced in a field learning environment. Students are required to demonstrate an ability to plan, organize, and execute small unit tactical operations. PREREQUISITE: Permission of Department Chairperson.

**MIL 102 Advanced  
Leadership 3 ch - 3 sh**

The course examines leadership qualities, traits and principles with emphasis on the military environment. Students are confronted with situations, case studies of leadership problems under physical and mental stress and leadership assessment exercises. Self, peer and instructor leadership evaluations are conducted to develop personal awareness and realistic expectations about personal leadership skills. Advanced military skills, specifically an ability to recognize terrain and navigate across country are reinforced and Army career options are presented. PREREQUISITE: Permission of Department Chairperson.

**MIL 113 Military Command  
and Staff 3 ch - 3 sh**

Examines the role, authority, and responsibility of military commanders and staff officers in the managerial areas of personnel, logistics, and training; military law; and planning and operations. Staff procedures, problem solving techniques, decision making methods, and training methodologies used in military organizations are discussed. Written and oral communicative methods are emphasized. PREREQUISITE: Permission of Department Chairperson.

**MIL 114 War, Morality, Ethics and  
Military Professionalism 3 ch - 3 sh**

Examines the development of the profession of arms. Analyzes the profession's fundamental values and institutions, special moral principles and ethical responsibilities in contemporary American society. Examines the moral dimensions of war, just war theory, and international law of war. Develops an understanding of decision making techniques in ethical problem solving. PREREQUISITE: Permission of Department Chairperson.

**MIL 170 Military Science Leadership  
Lab II 2 ch - 0 sh**

Advanced Military Science Leadership Lab. Provides upper level students with opportunities to practice/refine leadership and instructional techniques developed in class. One one-and-a-half hour period per week, location dictated by type of activity being conducted. Required enrollment for students in any of the following courses: MIL 101, 102, 113, 114. PREREQUISITE: Permission of Department Chairperson.

**MUSIC**

**MUS 010 Introduction to  
Music Literature 3 sh**

A survey of western music designed to increase the student's understanding and enjoyment of music. Through lecture, discussion and directed listening the student will be introduced to representative works of the major stylistic periods in music history with reference to the political, social and artistic milieu in which they were created. Opportunity will be provided for listening to recordings, films, and live performances.

**MUS 020 Basic Concepts and Skills  
of Music 3 sh**

Designed for students with little or no prior musical experience, this course provides basic knowledge concerning the structure of music, i.e., melody, rhythm, form, harmony, and texture. Along with an orientation to the keyboard, students are introduced to reading, writing, and creating music; sight singing, rhythms, ear training, and dictation.

**MUS 024 Class Piano I 2 ch - 1 sh**

A course in practical keyboard facility, sight reading, and harmonization of folk melodies and songs. For all students interested in obtaining a better understanding of music by means of keyboard work. Useful for elementary majors who do not present a minimum degree of proficiency in piano.

**MUS 079 Voice Class I 2 ch - 1 sh**

This course provides students with the opportunity to develop basic singing techniques and apply them to the singing of songs. Class performance stresses the development of confidence and expressiveness.

**MUS 100 Experiencing Contemporary  
Music 3 sh**

A perusal of contemporary practices in musical composition and performance as well as the socio-economic forces which determine these practices. Various musical media, styles and historic periods of music will be included

to the extent that they impact upon investigations and discussions of current musical events and performances. The course will include visits to the classroom by various artists as well as visits by the class to local and urban cultural centers.

**MUS 102 Harmony and Theory I 3 sh**

This course is designed as a foundations course in Music Theory and Practice. The study of primary and secondary triads and seventh chords, their inversions, and non-harmonic tones are emphasized along with related skills of ear training. PREREQUISITE: MUS 020, Basic Concepts and Skills of Music or Challenge examination.

**MUS 104 Ear Training I 3 ch - 2 sh**

A course in the aural skills of music, ear training, and melodic, harmonic and rhythmic dictation. Ear Training I applies these activities in diatonic relationships with few incidental chromatics. The level of harmony parallels the material in MUS 102 Harmony and Theory I and MUS 180 Sight Singing I. It is recommended that these courses be taken as concomitants. PREREQUISITE: MUS 020 Basic Concepts and Skills of Music.

**MUS 124 Class Piano II 2 ch - 1 sh**

A study of the piano, its technique and literature; a continuation of Class Piano I. This course is intended for those who are capable of playing medium grade piano music. Admission by permission of instructor.

**MUS/THE 128 The History of American Musical Theatre**

**3 ch - 3 sh**

A history of the American contribution to the world of theatre. In addition to examining contemporary musicals, American precursors and European influences, innovators and innovations in music, libretto, staging and choreography will be studied as a means of illustrating changes and trends in musical theatre. PREREQUISITE: THE 015 and MUS 010.

**MUS 179 Voice Class II 2 ch - 1 sh**

This course is a continuation of vocal technique developed in Voice Class I. It includes interpretation, stage department, programming and song literature. PREREQUISITE: MUS 079, Voice Class I, or permission of the instructor.

**MUS 180 Sight Singing I 3 sh**

The visual, aural and theoretical aspects of music reading will be developed through the use of the traditional syllables of the movable Do system. Other systems such as letters and numbers will be explored. The course will include two and three part singing.

**MUS 202 Harmony and Theory II 3 sh**

This course is a continuation of Harmony and Theory I. It includes a more comprehensive survey of harmonic materials based on the techniques of composers of the 17th through the 19th centuries. This will form the basis for exploration of various stylistic procedures in contemporary harmonic idioms. PREREQUISITE: MUS 102, Harmony and Theory I.

**MUS 204 Ear Training II 3 ch - 2 sh**

An advanced course in the aural skills of music, ear training, and melodic, harmonic and rhythmic dictation. Ear Training II applies these activities in diatonic relationships and chromatic relationships. The level of harmony parallels the material in MUS 202 Harmony and Theory II and MUS 280 Sight Singing II. It is recommended that these courses be taken as concomitants. PREREQUISITES: MUS 020: Basic Concepts and Skills of Music and MUS 104 Ear Training I.

**MUS 205 The Physical Properties of Sound: Music and Music Reproduction**

**3 sh**

A non-mathematical music-based study of sound; its properties, production, storage, and reproduction. The study of acoustical properties of the voice and musical instruments and the electronic devices used to record and reproduce their sounds. The

course is designed to provide experiences in the practical uses of the fundamentals of musical acoustics.

**MUS 207 British Music 3 sh**

A study of the music of England, Ireland, Scotland and Wales, including an analysis of its structure, styles, and aesthetic concepts. Major composers of all historical periods will be considered and their contributions in the various genres will be presented within the context of the social and historical background of the British Isles.

**MUS 210 Russian Musical Culture**

**3 sh**

A survey of Russian music with emphasis on developments leading composers and representative works of the nineteenth and twentieth centuries. Consideration will be given to the effects of folk elements and influences of the Communist philosophy on Russian music. PREREQUISITE: MUS 010, Introduction to Music Literature, or permission of instructor.

**MUS 211 Music from Ancient Times to 1750 3 sh**

A study of music literature from ancient times to 1750. An analysis of musical structure, styles, forms, aesthetic concepts, and practices in their historical context. PREREQUISITE: MUS 010, or permission of the instructor.

**MUS 212 Music from 1750 to 1900**

**3 sh**

An examination of the history of western music as developed after 1750. Instrumental and vocal music and innovative composers and compositions are discussed and illustrated with scores, recordings and films. These developments are placed in perspective with social, cultural, technological, and political changes of the 18th and 19th centuries. PREREQUISITE: MUS 010 or permission of instructor.

**MUS 215 American Music 3 sh**

A study of American Music from the Pre-Columbian period to the present. The influence of the personalities of composers and performers on the evolution of music in America. Ethnic and folk music, opera and musical comedy, symphonic and choral music as well as jazz will be studied. PREREQUISITE: MUS 010 Introduction to Music Literature, or permission of instructor.

**MUS 219 Afro-American Music 3 sh**

A comparative study of indigenous African music with the music of the African American. An analysis of the various styles, forms and tonal elements of Afro-American music within cultural and historic contexts. PREREQUISITE: MUS 010 Introduction to Music Literature, or permission of instructor.

**MUS 220 Twentieth Century Music 3 sh**

An examination of the trends and stylistic concepts developed in Europe and America beginning with Post-Wagnerian Romanticism. Along the trends and styles to be considered are impressionism, neo-classicism twentieth-century nationalism, the twelve-tone school, jazz and electronic music. PREREQUISITE: MUS 010 or permission of instructor.

**MUS 223 Development of the Child Voice 2 ch - 1 sh**

The study of the nature of the child voice, its potential and development. Concentration on techniques which are appropriate to the context of the elementary school: classroom, vocal ensemble, operettas and special programs. Identification and help for the uncertain and atypical singer.

**MUS 224 Class Piano III 2 ch - 1 sh**

This course will serve as a continuation of Class Piano I and II and also as a placement for students with more fluent reading and playing skills than required for Class Piano II. A placement examination is required of students without prior study in Class Piano II.

**MUS 225 Jazz: Its History and Influence 3 sh**

A study that explores the logical musical derivatives and developments in jazz and how these developments affected and continue to affect individual jazz styles. PREREQUISITE: MUS 010 Introduction to Music Literature, or permission of instructor.

**MUS 227 Creative Keyboard 2 ch-1 sh**

This course provides an opportunity for students who need additional keyboard skills related to the classroom teaching to expand their usage of the keyboard as a teaching vehicle. It is designed to meet the needs of the classroom teacher while presenting the harmonic and improvisational skills for independent and creative pedagogy. PREREQUISITE: Basic Keyboard Skills.

**MUS 229 Music in Childhood Education 3 sh**

An advanced course in music education for classroom teachers. It includes a major study of several major song book series and music listening series. Orff and Kodaly methods of music education, development of song repertoire and creative experiences in music. Each student will have frequent opportunities to present demonstration lessons to the class. PREREQUISITES: ELU 120 Music for Elementary Schools; MUS 010 Introduction to Music Literature.

**MUS 280 Sight Singing II 3 sh**

A continuation of Music 180 Sight Singing I, in which the aural and theoretical aspects of music reading are developed through the use of the traditional syllables in movable Do system. Other systems such as letter names and numbers will be explored, and part singing is included. PREREQUISITE: MUS 180 Sight Singing I.

**MUS 291 Selected Topics in Music 3 ch - 3 sh**

Topics in the field of Music will be selected for thorough study. For example, topics may include music literature courses such as genres,

stylistic periods, ethnic musics, performers and composers, or music theory courses such as analysis of selected works, counterpoint, and Twentieth Century compositional technics. The course may be repeated for credit provided that the same topic is not repeated. Prerequisites will be determined by the topic selected.

**MUS 303 Electronic Music Composition 3 sh**

This course is intended to provide the student who is interested in electronic music (music produced by means of synthesizers and computers) with the theoretical and practical knowledge of the basics of electronic music production, the application of MIDI technology and the basic techniques of electronic music composition using traditional recording and sequencer technology. PREREQUISITE: MUS 102 Harmony and Theory I or permission of the instructor.

**MUS 310 Composition and Arranging 3 sh**

An investigation into the creative process of music composition and the craft of adapting compositions to various vocal and instrumental media. PREREQUISITE: MUS 102 Harmony and Theory I; or permission of the instructor.

**MUS 320 Keyboard Harmony 3 sh**

This course presents an opportunity for the student of harmony to apply to the keyboard in a vital and creative manner the essentials of basic harmony, including chord progressions, approaches to cadences, transposition, modulation, harmonization of melodies, improvisation, analysis, and the use of the figured bass. PREREQUISITES: MUS 020 Basic Concepts and Skills of Music and MUS 024 Class Piano I; or equivalent.

**MUS 324 Class Piano IV 2 ch - 1 sh**

This course will serve as a continuation of Class Piano I, II, and III, and will complete the cycle of four semesters of basic piano study. Students with more fluent reading and playing skills than are required for Class Piano III

may progress to Class Piano IV. Other students without previous Class Piano study may take a placement examination to enroll in the course.

**MUS 325 Conducting**  
**(Vocal and Instrumental) 3 sh**

Principles of conducting; technique of the baton; transpositions; reading and memorization of scores and program building. Practice with choral and instrumental groups. Video tapes of students will be made and studied for self evaluation. PREREQUISITE: MUS 010 Introduction to Music Literature and MUS 180 Sight Singing I or permission of the instructor.

**MUS 327 Aesthetics and Music**  
**Criticism 3 sh**

The philosophical basis of expression as a foundation for understanding the nature, function and modes of musical art. The consideration of criteria for music as a component of human life experience.

**MUS 330 Analysis of Music Stylistic and Structural 3 sh**

The survey and analytical study of tonal and structural materials of music. Critical analysis of the various musical styles and forms that have been developed in Western Civilization from Pre-Renaissance to the present day. PREREQUISITE: MUS 010 Introduction to Music Literature.

**MUS 379 Directed Studies**  
**in Music 1 - 3 sh**

An individualized approach to the needs and interests of select students through guided research, readings, discussion, and papers. Admission is by permission of the instructor.

**MUS 380 Senior Seminar**  
**in Music 2 sh**

Readings and discussions of music as a component of contemporary society, with particular reference to the complementary roles of the composer, performer, consumer and critic.

**MUS 391, 3 credits; MUS 392, 6 credits;**  
**MUS 393, 9 credits; MUS 394,**  
**12 credits**

**Field Experience in Music**

Upon approval of a cooperating agency, the student will be placed in a situation in which practical professional experience can be acquired through an organization related to his/her career plans. Interested students should apply through their advisor or the chairperson of the department. PREREQUISITES: Senior status and recommendation of the Music Department. The course may be scheduled for a variable number of s.h. credits.

**MUSIC PERFORMANCE**

**INSTRUCTION IN**  
**APPLIED MUSIC 1 sh**  
**ENSEMBLE INSTRUCTION**

Ensemble instruction may be elected only with the permission of the instructor. Private instruction requires permission of the instructor and the Chairperson of the Music Department. May be repeated for credit.

**Ensemble Instruction 1 sh each**

MUP 231 String Ensemble  
MUP 232 Woodwind Ensemble  
MUP 233 Brass Ensemble  
MUP 234 Percussion Ensemble  
MUP 235 Vocal Ensemble  
MUP 251 Recorder Ensemble

**PRIVATE INSTRUCTION:** One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble. Private and ensemble instruction may be taken at four levels of competency. May be repeated for credit.

**Private Instruction 1 sh each**

MUP 236 Applied Music:  
French Horn (Pr)  
MUP 237 Applied Music: Piano (Pr)  
MUP 238 Applied Music: Organ (Pr)  
MUP 239 Applied Music: Voice (Pr)  
MUP 240 Applied Music: Viola (Pr)  
MUP 241 Applied Music: Cello (Pr)  
MUP 242 Applied Music:  
String Bass (Pr)  
MUP 243 Applied Music: Flute (Pr)  
MUP 244 Applied Music: Oboe (Pr)  
MUP 245 Applied Music: Clarinet (Pr)  
MUP 246 Applied Music: Bassoon (Pr)  
MUP 247 Applied Music: Sax (Pr)  
MUP 248 Applied Music: Trumpet (Pr)  
MUP 249 Applied Music: Violin (Pr)  
MUP 250 Applied Music:  
Baritone Horn/Trombone (Pr)  
MUP 252 Applied Music: Tuba (Pr)  
MUP 253 Applied Music:  
Percussion (Pr)  
MUP 254 Applied Music: Guitar (Pr)

**MUP 281 University Band 0.5 sh each**

The Concert Band emphasizes performance of a wide variety of band literature: standard repertoire, recently published compositions, and selections from festival lists. Spring semester includes Young People's Concert and a Spring Concert. The Marching Band performs a diversified musical repertoire with pageantry, and theme drills at football games. The schedule also includes performance at parades, and other special events. Rehearsals: Tuesdays and Thursdays, 4:00 - 6:00 PM each semester. Permission of the instructor is required. One semester hour credit upon completion of two semesters (not necessarily consecutive semesters.) Band may also be elected on a non-credit basis. May be repeated for credit.

**MUP 283 University**  
**Choir 0.5 sh each**

A study through rehearsal and performance of the mechanism and aesthetic of choral vocal production. The choir performs on and off campus concerts in the Fall and Spring. Rehearsals are on Monday and Wednesday, 4:00 - 6:00 PM each semester. No prerequisite. Permission of instructor required. Offered each

semester. One semester hour credit upon completion of two semesters (not necessarily consecutive semesters). Choir may also be elected on a non-credit basis, may be repeated for credit.

#### **MUP 285 University**

##### **Orchestra 0.5 sh each**

An investigation into orchestral music of the 18th, 19th and 20th centuries; various forms such as overture, concerto, ballet, suites, Fall semester typically includes "Pops" Concert, Winter Concert; Spring semester includes All-College Musical, Community Concert and Spring Concert. Rehearsals each Wednesday from 4:00 - 6:00 PM. Permission of the instructor is required. One semester hour credit upon completion of two semesters (not necessarily consecutive semesters). Orchestra may also be elected on a non-credit basis. May be repeated for credit.

#### **MUP 289 University**

##### **Jazz Band 0.5 sh each**

Arrangements that are characteristic of a variety of jazz styles are included in the course. These include representative music from 1940 to the present. Students participating in the band gain both ensemble and solo experience, the latter frequently through creative improvisation. Rehearsals are held from 7:00-9:00 PM each Monday and culminate in various performances on and off campus. Permission of the instructor is required. One semester hour credit upon completion of two semesters (not necessarily consecutive semesters). Jazz Band may also be elected on a non-credit basis. May be repeated for credit.

## **NURSING**

### **NUR 111 Women's Wellness:**

#### **Caring For Ourselves and Our Bodies 3 ch - 3 sh**

This course permits the learner to study the wide variety of issues affecting the lives of women in today's society. The course will emphasize women and what women can do for themselves and for one another to deal with these issues effectively. The course will enable learners to focus on how women can take charge of their own wellness and their lives, deal with existing medical system, and utilize strategies to create change and improvement. Investigation of current research on women's wellness and strategies will be utilized to assist women to deal with these issues. This course is not open to nursing majors.

### **NUR 299 Adaptation of the Nurse, as a Professional**

#### **Person 2 ch - 2 sh**

This course serves as an introduction to the nursing program at Kutztown University. The student is introduced to the philosophy and organizing framework of the nursing program for the purpose of applying it to professional nursing practice. In this course, the student begins to evaluate the nurse as a professional person within the four modes. The course examines the environmental stimuli confronting the nurse and the strategies used to manage these stimuli in order to promote integrity within the profession.

### **NUR 308 Adaptation of the Nurse to the School Health**

#### **Environment 9 ch - 5 sh**

### **NUR 309 Adaptation of the Nurse to the School Health Environment Laboratory**

This course provides the nurse with the knowledge and skills necessary to meet the health needs of school-aged children and families within the school setting. The topics presented will utilize the Adaptation Model and other pertinent theories as they relate to provision of direct care to children, management of the school health environment and provision of a multi-disciplinary approach to meet the

health needs of children and their families. This course promotes critical thinking skills and decision-making skills which are essential to school health nurse practice. This course will include clinical experiences within a school health setting emphasizing health promotion and health education. PREREQUISITES: NUR 299, NUR 312/313 or permission of instructor.

### **NUR 310 Adaptation of the Nurse Within the Health Care**

#### **Environments of the United States and the United Kingdom 3 ch - 3 sh**

This course serves as a comparative study of nursing and health care in the United States and the United Kingdom. The student is introduced to the evolution of the role/image and practice of nursing within these two different environments. The course examines critical issues of health care delivery and the nursing strategies utilized to manage the many stimuli.

### **NUR 312 Adaptation of the Individual and Family 9 ch - 5 sh**

### **NUR 313 Adaptation of the Individual and Family Laboratory**

This course introduces nursing theory as it relates to the adaptation of the individual and the family across the life cycle. Theories related to health assessment, problem solving, and individual and family development are utilized with the Adaptation Model as the framework. The learner will apply the nursing process and the associated processes to promote effective adaptation of the individual and the family experiencing minimal adaptive responses. Clinical experiences will focus on individuals and families who are striving to maintain health. PREREQUISITES: BIO 120/121 Anatomy and Physiology I; BIO 122/123 Anatomy and Physiology II; CHM 040/041 Principles of Chemistry or CHM 100/101 General Chemistry; PSY 110 Child Psychology; and lower division nursing credits. CO-REQUISITE: NUR 299 Adaptation of the Nurse as a Professional Person.

**NUR/SWK 320 Case Management —  
an Interdisciplinary  
Approach 3 ch - 3 sh**

The course will cover principles, theory, and the historical development of case management as an interdisciplinary method of delivering health and human services. Emphasis will be placed on the development of skill in implementing the phases of this method of practice (*Assessment, Goal Setting, Case planning, Monitoring progress, and Termination and Evaluation*). Appropriate groups of client populations will be identified and issues related to their unique needs in relation to their social environment will be examined. PREREQUISITES: SWK 250 Social Work Practice with Individuals: Practice I; or NUR 299 Adaptation of the Nurse as a Professional Person, and NUR 312 Adaptation of the Individual and Family; or by permission of the instructor.

**NUR 322 Adaptation of Groups  
Within the Health Care  
Environment 9 ch - 5 sh**  
**NUR 323 Adaptation of Groups  
Within the Health Care Environment  
Laboratory**

This course explores the leader and manager role of the professional nurse when promoting effective adaptation of groups. Through the utilization of the Adaptation Model the learner will examine the leader/manager component of the professional role and use the skills necessary to fulfill the leader/manager role in the health care environment. The learner will also study contributing focal, contextual, and residual stimuli that affect the nurse leader/manager and the group. In addition, the learner will examine health care environments in order to understand minimal and moderate adaptive responses experienced by the individual, family, and group. Planned clinical experiences as a nurse leader/manager of groups will allow for the internalization of leadership/management theory. PREREQUISITES: NUR 299, NUR 312-313.

**NUR 332 Adaptation of the Community  
and Its Members 9 ch - 5 sh**

**NUR 333 Adaptation of the Community  
and Its Members Laboratory**

This course introduces nursing theory as it relates to the adaptation of the community and its members (individuals, families, and groups). Theories associated with community assessment, epidemiology, and mobilization of community resources and health education will be applied in order to promote effective adaptation of the community and its members. The learner uses the nursing process and the associated process to promote effective adaptation of the community and its members. Clinical experiences will focus on communities and their members who are experiencing minimal, moderate, and complex adaptive responses to stimuli. PREREQUISITES: NUR 312-313 BIO 160-161 or BIO 224-225 or BIO 304-305. COREQUISITE: NUR 322-323.

**NUR 342 Complex Adaptive Responses  
by Clients to Stimuli 9 ch - 5 sh**

**NUR 343 Complex Adaptive Responses  
by Clients to Stimuli Laboratory**

This course permits the learner to synthesize nursing knowledge and apply the adaptation model in order to promote effective adaptation of the client experiencing complex adaptive responses to multiple environmental stimuli. The focus is on the dynamic interaction of the four modes of the person experiencing complex adaptive responses. This course will explore environmental stimuli affecting adaptation; i.e., clients, acuity level, technological advances, health promotion and maintenance, and societal trends and issues influencing health. This course encourages critical thinking, decision making, and independent judgement within nursing. Clinical experiences will provide opportunities to apply theory and to promote effective adaptation of clients experiencing complex adaptive responses. PREREQUISITES: NUR 322/323. CO-REQUISITE: NUR 332-333 or permission of instructor.

**NUR 370 Independent  
Study ch TBA - 1-3 sh**

With the approval of the professor and the approval of specific objectives in advance, the nurse may pursue for credit special areas of professional interest in depth. The study may be either clinical, theoretical, or a simple research project. PREREQUISITE: NUR 299, NUR 312-313.

**NURS 371 Selected Topics  
in Nursing 3 ch - 3 sh**

This course will provide an analytic study of a selected topic in nursing. Topics will vary depending upon interests of students and faculty or timeliness of the subject matter. The topic to be presented will be approached by utilizing the Adaptation Model which incorporates the concepts of person, environment, health and nursing. In addition the legal, social, ethical, political, economic, historical and philosophical aspects of the topic will be incorporated within the course. The course may be repeated for credit, provided that the same topic is not repeated. PREREQUISITE: NUR 299, NUR 312/313 or permission of instructor.

**NUR 375 Introduction to Nursing  
Research 3 ch - 3 sh**

This course provides an introduction to nursing research with the focus on the use of the research process in nursing practice and the critical evaluation of nursing research. The formulation of a nursing research problem and the related investigational skills are included. The Adaptation Model and related nursing theories serve as a foundation for investigation of the nursing research problem. PREREQUISITES: NUR 312-313. COREQUISITE: MAT 140 or PSY/SOC 200.

**NUR/BUS 400 Health Care  
Management 3 ch - 3 sh**

This course explores major issues, trends and changes occurring within the health care industry. An applied understanding of the specialized organizations such as health maintenance organization, clinics, long-term care institutions, home care services,



laboratories, and outpatient units will be explored. The learner will examine the environment, changes in governmental regulations and societal change of the respective health care industry and the impact of those on the consumer. In addition, a study of the internal organizational issues, more specifically the clinical/operating activities unique to specific organizations, will be examined. Emphasis will be placed on identifying managerial functions and issues in order to assist the health care system to adapt effectively. The management of human resources, and major managerial responsibilities will be studied.  
**PREREQUISITE:** Graduate level: Admission to MBA Program and completion of MGM 300 or a minimum of Senior Level Status plus completion of NUR 322-323.

## PHILOSOPHY

Any Philosophy course may be used to satisfy the humanities requirement.

### PHI 015 Critical Thinking 3 sh

Critical thinking is the ability to determine systematically the degree to which a claim or assertion is warranted by purported evidence. This course presents explicitly the principles and standards involved in reasoning and logical persuasion as they apply to our lives, both privately and publicly.

### PHI 020 Introduction to Logic 3 sh

An introduction to both traditional and modern symbolic logic with emphasis on problem solving through the applications of rules of validity and truth table tests for validity.

### PHI 030 Introduction to Philosophy 3 sh

A course designed to introduce the student to philosophic thought and terminology. Topical survey of the main branches of philosophy; epistemology; metaphysics, value theory.

### PHI 040 Introduction to Ethics 3 sh

A study of the development of major ethical concepts and problems from the theories of the early Greeks to those of 20th Century philosophers.

### PHI 065 Ancient and Medieval Philosophy 3 sh

An examination of the major figures of ancient and medieval philosophy from the pre-Socratics to the Renaissance.

### PHI 066 Modern Philosophy 3 sh

A study of the development of important concepts of modern philosophy from the Renaissance to the present.

### PHI 080 Business Ethics 3 sh

An investigation of the logic and historical development of principal philosophical theories concerning business, and its moral consequences. Possible topics include the philosophical foundations of free-market, state and collectivist economies, and their applications to contemporary ethical problems such as truth in advertising, workers' rights and economic justice.

### PHI 110 Comparative Study of Religion 3 sh

The course will involve an attempt to apprehend the essence of religious claims and to subject them to critical analysis. Emphasis will be placed on the nature, scope, adequacy and limitations of methods of investigation and evaluation. Specific traditions will be examined in an attempt to ascertain such things as their fundamental claims, what is presupposed by and what follows from such claims, the requirements for religious commitment, and the sanctions for their claims.

### PHI 125 Philosophical Aspects of Death and Dying 3 sh

The course is concerned with such issues as the mind-body-soul distinction and how this affects our attitudes toward death. It also considers questions of life after death and the ethical issues which must be considered when dealing with death and the human event of dying.

### PHI 130 Oriental Philosophy 3 sh

Investigation of the philosophic tendencies of various branches of Eastern thought with major emphasis on theories of metaphysics, knowledge and ethics. Comparisons between Eastern and Western philosophic methods and conclusions will be made.

### PHI 170 Philosophy of Religion 3 sh

A philosophical examination of the major problems of religion such as the concept of human nature, the nature of religious knowledge and faith, the traditional arguments for God's existence, the problem of evil and the nature and function of religious language.

### PHI 202 HON: Two Philosophers Worth Knowing Well 3 sh

This course provides an introduction to philosophy via concentrated study of the works of two major philosophers, whose work has had a great cultural influence and has strong, systematic interrelations. The particular philosophers studied will vary from semester to semester, with professors' and students' interests. Emphasis is upon philosophy as involving a continuous and perennial dialogue between great minds.

### PHI 210 Professional Ethics 3 sh

A description of the major theories of value and the part they play in the stated or implicit rules of behavior of various professions such as medicine, law and business.

### PHI 230 Philosophy of History 3 sh

An examination of various philosophic theories which deal with the description and correlation of historical events.

### PHI 240 Philosophy of the Social Sciences 3 sh

An introduction to the scientific methods and techniques as they are applied to social sciences. Relations between the social sciences, the natural sciences and philosophy. Philosophic analysis of the various social sciences in terms of strengths, weaknesses, methods, models and goals.

**PHI 241 Philosophy of Mind 3 sh**

Philosophy of Mind is a major area of both historical and contemporary philosophy. This course surveys that area. It examines critically fundamental questions of mind and consciousness, such as the mind-body problem, free will, immortality, and artificial intelligence.

**PHI 245 Human Love and Sexual Morality 3 sh**

This course addresses the perennial philosophical questions of what love is and what it means, and how we should behave sexually. It surveys classical, modern and contemporary philosophical writings on these metaphysical and ethical issues. It has two contemporary themes: the historical development of major philosophical traditions concerning love and sexuality, and the pressing contemporary ethical issues concerning sexual behavior.

**PHI 260 Philosophy of Art 3 sh**

An investigation into major problems of art from a definition of art to the relation between aesthetic judgment and knowledge in general.

**PHI 265 Social and Political Philosophy 3 sh**

The study of one or more important concepts in social and political philosophy such as rights, revolution, law, freedom, justice, property, sovereignty, political obligation and the nature, range, and validation of judgments in the social and political domain. Emphasis may be on either a systematic treatment of problems or on an historical development of theories.

**PHI 280 American Philosophy 3 sh**

An examination of the development of philosophy in America from the Colonial period to the present, with special emphasis on pragmatism.

**PHI 305 Medieval Philosophy 3 sh**

The study of the philosophic and theological problems of the period 350 AD to 1400 AD. The works of Augustine and Aquinas as well as many lesser

known but important writers of this period will be considered.

**PHI 310 Theory of Knowledge 3 sh**

A study of the nature and sources of knowledge, including an investigation of theories of truth and meaning. Considers the construction of theories of knowledge based on sense perception down to modern theories based on the analysis of language. Such topics as faith, certainty, probability and skepticism will also be considered.

**PHI 330 Philosophy of Science 3 sh**

The nature of scientific theory, explanation, method and assumptions. The implications of modern science for society and philosophy, and some of the major philosophical issues in the sciences.

**PHI 340 Symbolic Logic 3 sh**

The investigation of various types of modern symbolic logic, with special reference to deductive method and the concepts involved in formal axiomatic systems. Some time is given to the application of symbolic logic to computer design and to certain philosophic problems inherent in logic.

**PHI 345 Metaphysics 3 sh**

An analysis of basic metaphysical concepts and problems such as substance, causation, nature of the individual, the categories of being. The importance of method to the philosophic inquiry will be examined.

**PHI 350, 351, 352, 353, 354**

**Selected Topics in Philosophy 3 sh**

Extensive readings, critical discussions, and papers on any one of the major philosophers, philosophical schools, or philosophical problems. Selections will vary, depending on the needs and interests of eligible students. Independent research will be emphasized. The course may be taken for credit more than once by permission of the Department Chairperson.

**PHI 355 Existentialism and Phenomenology 3 sh**

A study of such existential concepts as dread, despair, anxiety, absurdity, nothingness, and authenticity and study of phenomenological concepts such as perception, the nature of human emotions, space and time, intersubjectivity, and value. Emphasis may be placed on either a systematic treatment of problems or on a historical development of theories.

**PHI 375 Philosophy of Languages 3 sh**

A study of logical atomism, Viennese positivism and contemporary British and American analytic philosophy. This course is intended to give the student a historical perspective of this twentieth century philosophic trend as well as to bring him abreast of current discussion in various phases of analysis.

**PHI 379 Independent Study 1 - 3 sh**

Before registering the student is required to consult with the faculty member in the area to be studied who will supervise the independent study. May be repeated for credit.

**PHI 380 Senior Seminar in Philosophy 3 sh**

This course consists of readings and discussions in the area of the individual student's interest in philosophy. Required of all Liberal Arts students majoring in philosophy.

**PHI 398 Honors Supplemental Research 1 - 3 sh**

See page 155.

**PHI 470 Selected Topics in Philosophy 3 sh**

Topics in philosophy that deal with a specific problem, area or philosopher will be selected for advanced study in depth. The course may be repeated provided that it does not cover the same topic.

## PHYSICAL EDUCATION

### All are 0.5 sh

Students who demonstrate swimming proficiency are permitted to select activities from a range of choices which include individual and dual sports, team sports, dance and swimming. In most cases activities are offered on a seven-week rotating basis and are co-educational. Listing of activities are: PED 011 Aerobics; PED 014 Aquatic Activities; PED 015 Aquatic Aerobics; PED 016 Aquatic Conditioning; PED 020 Archery; PED 022 Backpacking; PED 923 Badminton/Golf; PED 024 Badminton; PED 025 Badminton/Tennis; PED 026 Bowling; PED 030 Canoeing; PED 032 Foil Fencing; PED 035 Golf; PED 036 Golf Intermediate; PED 037 Golf/Racquetball; PED 038 Handball; PED 039 Hiking; PED 040 Ice Skating/Racquetball; PED 041 Ice Skating; PED 042 In-line Skating; PED 043 Juggling; PED 044 Juggling/Racquetball; PED 045 Juggling/Tennis; PED 046 Orienteering; PED 048 Personal Defense; PED 049 Personal Defense for Women; PED 050 Personal Fitness; PED 051 Personal Fitness II; PED 052 Physical Education for Non-Traditional Students; PED 055 Power Volleyball; PED 060 Racquet Sports; PED 061 Racquetball; PED 062 Racquetball/Tennis; PED 063 Skiing; PED 065 Step Aerobics; PED 069 Swim I/Personal Fitness; PED 070 Swimming – Level I; PED 071 Swimming – Level II; PED 072 Swimming I/Swimming II; PED 073 Swimming – Level III; PED 074 Table Tennis; PED 075 Table Tennis/Racquetball; PED 076 Table Tennis/Juggling; PED 078 Tennis; PED 082 Volleyball; PED 083 Volleyball/Juggling; PED 085 Weight Training; PED 087 Weight Training/Personal Fitness.

### **PED 101 Scientific Bases for Human Movement** 3 sh

A study of the physiological, mechanical, and anatomical aspects of human movement with particular reference to elementary school age children. Application of underlying principles of basic gross neuromuscular skills will be stressed. This course should,

if possible, be taken before other concentration courses.

### **PED 111 The American Woman in Sport** 3 sh

The course will focus upon physical and social-psychological factors which affect the performance of women in a variety of sport forms. Consideration will be given to recent legislation which has helped to define women's participation in the world of athletics.

### **PED 121 Movement Education for Children** 3 ch - 2 sh

The varied issues and concepts of individual developmental movement are considered. Published curricula in movement are investigated and programs are developed. Practical application of developmental movement is acquired through laboratory experiences.

### **PED 145 Lifeguard Training** 2 ch - 1 sh

This course is designed to provide the student with the knowledge and skills necessary to protect his/her life or the life of others in the event of an emergency in, on and around the water. The American National Red Cross certification will be awarded to those who successfully meet course requirements. Student must be prepared to demonstrate swimming proficiency during the first class meeting. This course may not be used to satisfy the requirements for PED 001 and PED 002.

### **PED 210 Physical Education Activities For Children in The Primary Elementary Grades** 3 sh

This course is designed to develop the knowledge, skill and understanding of individual activities, group activities, and rhythmic activities as appropriate to the intellectual, social-emotional and physical characteristics of children in the primary elementary school grades (K-3). Students are expected to participate actively and to teach activities in conjunction with this course.

### **PED 211 Physical Education Activities For Children in The Intermediate Elementary Grades** 3 sh

This course is designed to develop the knowledge, skill and appreciation of individual, group and rhythmic activities and the value of those activities to the intellectual, social-emotional and physical growth of children in the intermediate elementary school, grades 4-6. Students are expected to participate actively and to teach activities in conjunction with this course.

### **PED 216 Exercise Physiology** 3 sh

This course is designed to provide an in-depth analysis of the effects of physical activity upon the structure and function of various organ systems. Application of theoretical concepts to physical performance enhancement and clinical rehabilitation will be emphasized. PREREQUISITES: 3 credits of Biology and PED 101 or permission of the instructor.

### **PED 219 Social Foundations of Athletic Coaching** 3 sh

A study and analysis of the development of organized athletics with specific emphasis on the athletic coach. The significance and the relationship of the athletic coach and the athlete, to societal values and human relations. Special attention is devoted to the role and responsibility of the athletic coach in contemporary society and his/her contribution to the education of youth in America.

### **PED 221 Concepts, Techniques, and Problems of Athletic Coaching** 3 sh

An analysis of the various concepts of athletic coaching most conducive to motivating maximum individual and team performance. Special attention is given to the conditions and techniques essential to successful teaching and coaching of competitive sports. In addition to presenting the theories of how to coach and prepare a team for competition, common problems of coaching in the schools and community of today are studied.

Theory and techniques as applied to specific sport areas will be investigated by students. Advisors with specific expertise in sport areas will be assigned. A thirty-hour field experience in the coaching area of interest is required.

**PED 226 History of Sport 3 sh**

The course is designed to provide a historical overview of recreational and physical education philosophy and practice and sporting activity. Emphasis is given to historical, multi-cultural approaches toward sport and investigates their contributions to current attitudes and practices and the etiology of modern participatory and spectator sports. Topical areas will include, but are not limited to, the Greek "Ideal," Ancient Olympic Games, "The Turner" Movement, "Muscular Christianity," Sport of Native Americans, Influences of English Immigrants, Women's Emancipation and Participatory Sport, Afro-American Influences, The Modern Olympic Games, Evolution of the NCAA and Inter-collegiate Sport and Contemporary Issues.

**PED 231 Adapted Physical Education 3 sh**

Adapted physical education is a diversified program of developmental activities, games, sports, and rhythms suited to the interests, capacities, and limitations of students with disabilities who may not safely or successfully engage in unrestricted participation in the vigorous activities of the general physical education program. This course is designed to identify and understand handicapping conditions and to develop appropriate programs.

**PED 245 Water Safety Instructor 3 ch - 2 sh**

Water Safety Instructor is designed to train instructor candidates to teach the American Red Cross Water Safety courses. Students will plan and organize courses and practice teach swimming progressive skills. The American Red Cross's Water Safety instructor certification will be awarded to students who successfully complete

the course requirements. **PREREQUISITE:** Current certificate for the American Red Cross Emergency Water Safety Course or the American Red Cross Lifeguard Training Course. This course may not be used to satisfy the requirements for PED 001 and PED 002.

**PED 301 Current Issues in Elementary School Physical Education 3 sh**

The student will be offered an opportunity to explore and evaluate a variety of current practices and trends in elementary school physical education. Topics will be selected in accordance with the experience and interest of students enrolled in the course.

**PED 315 Prevention and Care of Athletic Injuries 3 sh**

The various types of injuries that occur in athletics are discussed with regard to causative factors, frequency, location and relationship to specific sports. Preventive techniques, treatment, procedures and rehabilitative programs are discussed, demonstrated and practiced. All aspects of prevention and care of athletic injuries are investigated. **PREREQUISITE:** HEA 020 or Current Standard First Aid certification (Red Cross).

**PED 380 Independent Study in Physical Education 1 - 3 sh**

Independent Study provides an opportunity for individuals to pursue scholarly activity in an area pertinent to the discipline of Physical Education not covered within a regularly offered undergraduate course in Physical Education. Credit for the course may be scheduled for one to three semester hours in a single semester for no more than three credits of independent study overall. Permission of the faculty member instructing the independent study as well as that of the departmental chair of the degree program or certification area is required.

## PHYSICS

**PHY 020 Introduction to Physics 4 ch - 3 sh**

**PHY 021 Introduction to Physics Laboratory**

An introduction to the principles of physics including mechanics, thermal energy, wave motion, electricity, magnetism, atomic theory and nuclear science. The traditional topics will be related to contemporary problems. A laboratory course intended for the general education of non-science majors. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science majors.

**PHY 030 Environmental Physics and Chemistry 4 ch - 3 sh**

**PHY 031 Environmental Physics and Chemistry Laboratory**

A study of some fundamental physical and chemical principles and their application to a few of the environmental problems facing our society today, with emphasis on the production and use of energy. A laboratory course intended for the general education of non-science majors. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

**PHY 040 General Physics I 6 ch - 4 sh**

**PHY 041 General Physics Laboratory**

A non-calculus, college level physics course. Topics covered include kinetics, Newton's Laws, energy, power, momentum, heat and sound. **PREREQUISITE:** a working knowledge of algebra. Does not meet the program requirements of physics, chemistry and math majors.

**PHY 042 General Physics II 6 ch - 4 sh**

**PHY 043 General Physics II Laboratory**

This course is a continuation of Physics 040 with an introduction to light, magnetism, electricity, atomic and nuclear physics. **PREREQUISITES:** Physics 040 or its equivalent as approved by the Physical Science

Department. Does not meet the requirements for chemistry, physics and math majors.

**PHY 100 Physics I** 6 ch - 4 sh

**PHY 101 Physics I Laboratory**

This is a calculus based introductory course in physics that will cover the area of mechanics, heat and sound. It is designed for students of science and pre-engineering. PREREQUISITES: successful completion or concurrent enrollment in Calculus (MAT 271).

**PHY 102 Physics II** 6 ch - 4 sh

**PHY 103 Physics II Laboratory**

This is a continuation of Physics 100-101. It will therefore be assumed that the student has taken Physics 100-101 or its equivalent. The areas to be covered include light, magnetism, electricity, electronics, and an introduction to atomic and nuclear physics. PREREQUISITES: PHY 100-101 or its equivalent.

**PHY 110 Modern Physics** 3 ch - 3 sh

This course provides a brief history of modern physics and the development of the Theory of Relativity and Quantum Physics. Topics include relativity, blackbody radiation, photoelectric effect, Compton effect, x-rays, wave-particle duality, old quantum theory, and the Bohr Model of atomic structure. PREREQUISITE: PHY 102.

**PHY 210 Heat and Thermodynamics** 3 ch - 3 sh

This course provides a study of the equations of state of a system and the fundamental laws and principles governing energy transformations and exchanges between a system and its near-surroundings and between one part of a system and another. Thermometry, heat thermodynamics and physical relations and applications are developed. PREREQUISITES: PHY 100, CHM 100, MAT 273 or 274.

**PHY 220 Electronics** 5 ch - 3 sh

**PHY 221 Electronics Laboratory**

This course covers DC and AC circuit theory, the characteristics and theory of solid state electronic control elements and the applications of

these elements leading to the design and analysis of amplifiers. Extensive laboratory work is involved. PREREQUISITES: PHY 042-043 or PHY 102-103.

**PHY 230 Optics** 5 ch - 3 sh

**PHY 231 Optics Laboratory**

This course provides a thorough study in the fundamental aspects of geometrical, physical and quantum optics. Some topics studied are plane and spherical surfaces, thin and thick lenses, spherical mirrors, lens aberrations and optical instruments. Further study in physical optics comprises phenomena bearing on the nature of light. Topics included in this phase are interference, Fraunhofer diffraction, the diffraction grating, the velocity of light, absorption and scattering, the polarization of light. PREREQUISITE: PHY 100-101, PHY 102-103; MAT 273 or 274.

**PHY 312 Mechanics** 4 ch - 4 sh

This course offers a comprehensive study of the statics, kinematics and dynamics of particles and rigid bodies. Theories relating to potential and motion in force fields are developed and the topics of Lagrangian and Hamiltonian mechanics are introduced. PREREQUISITES: PHY 100, PHY 102, MAT 273 or 274.

**PHY 315 Advanced Physics Laboratory I** 4 ch - 2 sh

This is an advanced level undergraduate laboratory physics course in Mechanics and Heat and Thermodynamics. The experiments are closely related to the subject matter in the two theoretical physics courses, i.e., Mechanics (PHY 312), and Heat and Thermodynamics (PHY 210). Extensive use of microcomputers is used to analyze collected data and some laboratory exercises are computer simulated. PREREQUISITE: PHY 210, PHY 312 and one semester of a CIS course above the 100 level or permission of the instructor.

**PHY 316 Electricity and Magnetism** 3 ch - 3 sh

This course studies the fundamental principles of electricity and magnetism, and the extension of these principles to Maxwell's Equations. Topics include vector analysis, electrostatics, magnetostatics, time-varying fields and electromagnetic wave propagation through space. PREREQUISITES: PHY 100, PHY 102 and MAT 273 or 274.

**PHY 319 Advanced Physics Laboratory II** 4 ch - 2 sh

This is an advanced level laboratory physics course in Electricity, Magnetism and Modern Physics. Advanced experiments from the areas of Electricity, Magnetism, Optics and Atomic, Nuclear and Solid State Physics are performed. Topics in error and data analysis are included. PREREQUISITE: PHY 100, PHY 316 and one semester of a CIS course above the 100 level or permission of the instructor.

**PHY 360 Quantum Mechanics** 3 ch - 3 sh

This course is an introduction to the subject of quantum physics. Topics include wave-particle duality, state functions and their usefulness, the Schrodinger equation, uncertainty principle, expectation values of observables and applications of quantum physics to one dimensional systems. The hydrogen atom is also considered. PREREQUISITE: PHY 100 and PHY 312.

**PHY 362 Solid State Physics** 3 ch - 3 sh

This course is an introduction to the subject of solid state physics. Topics include crystal structure, crystal binding, lattice vibrations, thermal and electrical properties of solids, the Fermi gas, band theory of solids, conductors and semiconductors, superconductivity, magnetic properties, and crystal defects. PREREQUISITE: PHY 360.

**PHY 364 Nuclear Physics 3 ch - 3 sh**

This course is an introduction to the subject of nuclear physics. Topics include nuclear structure and models, nuclear transitions and decay, nuclear reactions, radiation detection, natural radioactivity and elementary particles. PREREQUISITE: PHY 360.

**PHY 370 Research in Physics 1 - 4 sh**

This is a laboratory course which will involve individual research on a specialized problem in the physical sciences under the direction of a faculty member. It is expected that the results of such work may be published. PREREQUISITES: Consent of the staff members and their approval of the project. Clock hours as required.

**PHY 380 Senior Seminar in Physics 2 sh**

This course consists of readings and discussions in the area of the individual student's interest in physics. Required of all Liberal Arts students concentrating in physics.

**PHY 390 Internship in Physics 1 - 4 sh**

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements. PREREQUISITE: Junior and Senior standing and approval of department head.

**PHY 398 Honors Supplementary Research 1 - 3 sh**  
See page 155.**PHY 465 Selected Topics:****Advanced Physics****Laboratory II 4 ch - 2 sh**

This is an advanced level laboratory physics course in Electricity, Magnetism and Modern Physics. Advanced experiments from the areas of Electricity, Magnetism, Optics and Atomic, Nuclear and Solid State Physics are performed. Topics in error and data analysis are included. This course will cover topics at a more in-depth level than PHY 319. A student may not enroll in this course if she/he has successfully completed PHY 319. PREREQUISITE: PHY 110, PHY 316.

**PHY 470 Selected Topics:****Quantum Mechanics 3 ch - 3 sh**

This course is an introduction to the subject of quantum physics. Topics include wave-particle duality, state functions and their usefulness, the Schrodinger equation, uncertainty principle, expectation values of observables and applications of quantum physics to one dimensional systems. The hydrogen atom is also considered. This course will cover topics at a more in-depth level than PHY 360. A student may not enroll in this course if she/he has successfully completed PHY 360. PREREQUISITES: PHY 312.

**PHY 472 Selected Topics:****Solid State Physics 3 ch - 3 sh**

This course is an introduction to the subject of solid state physics. Topics include crystal structure, crystal binding, lattice vibrations, thermal and electrical properties of solids, the Fermi gas, band theory of solids, conductors and semiconductors, super-conductivity, magnetic properties, and crystal defects. This course will cover topics at a more in-depth level than PHY 362. A student may not enroll in this course if she/he has successfully completed PHY 362. PREREQUISITE: PHY 360 or PHY 470.

**PHY 474 Selected Topics:****Nuclear Physics 3 ch - 3 sh**

This course is an introduction to the subject of nuclear physics. Topics include nuclear structure and models,

nuclear transitions and decay, nuclear reactions, radiation detection, natural radioactivity and elementary particles. This course will cover topics at a more in-depth level than PHY 364. A student may not enroll in this course if she/he has successfully completed PHY 364. PREREQUISITE: PHY 360 or PHY 470.

**POLITICAL SCIENCE****POL 010 American Government 3 sh**

The historical background and general principles of American federal government. The congress, the presidency, administrative organization, civil service, the courts, and political processes are described and analyzed.

**POL 020 International Relations 3 sh**

A study of the diplomatic, organizational, military, and legal relationships among states. Designed to provide a conceptual framework leading to a better understanding of international developments, the course considers the nation-state system, sovereignty, nationalism, the sources of national power, the foreign policy making process, and conflict and conflict resolution.

**POL 050 State and Local Government 3 sh**

A general consideration of federal, state, and interstate relations followed by a more detailed treatment of the state-local government relation in the United States. Particular emphasis is placed on the citizen's role and representation in grass-roots government. Possibilities for improvement of state and local government are explored.

**POL 125 Introduction to Comparative Politics 3 sh**

A comparative examination of the cultural environments, decision-making processes, leadership patterns, public policies and political development tendencies of western and non-western societies. Problems of methodology are reviewed. Required of all political science majors.

**POL 130 Empirical Political****Analysis 3 sh**

An introduction to political analysis based on systematic social science methods. Discussion of differing approaches to Political Science but concentration on empirical analysis. Topics include the nature of social science, measurement, statistical analysis and hypothesis testing. The course is intended primarily for political science major students and is not a proper choice for a student seeking to survey the subject matter of political science. **PREREQUISITE:** Six (6) hours of Political Science.

**POL 131 The Politics****of Latin America 3 sh**

An examination of the major forces which determine the politics of the Latin American states. A problem-centered approach is emphasized, designed to highlight the most important contemporary issues confronting these countries in both their domestic and external relations.

**POL/CRJ/SOC 150****Law and Society 3 sh**

A survey of the major philosophies of law and the roles of law in society. The focus will be on how differing perspectives on the nature of law influence ideas about liberty, justice, responsibility, and punishment.

**POL/PSY/SOC 200 Statistics for the Social and Behavioral Sciences 3 sh**

This course considers the application of statistical procedures for the purposes of description and inference in the social sciences. Such topics as measures of central tendency, variability, correlation, prediction and the normal curve are considered. Inferential techniques such as tests, analyses of variances, trend analysis, and multiple comparisons are also considered. **PREREQUISITE:** PSY 011 and MAT 101 or its equivalent.

**POL 215 Public Administration 3 sh**

The basic principles of administration in the public sector are presented and analyzed. Surveys the historical

development of contemporary public administration and examines the process, both formal and informal, by which public policy is implemented.

**POL 220 Public Opinion and****Propaganda 3 sh**

An examination of various aspects of public opinion and political influence, including: definitions of public opinion; an overview of political socialization; analysis of the structure of public opinion and propaganda in modern societies; evaluation of the ideals and realities of popular government; and an introduction to methods of public opinion measurement.

**POL 221 Foundations of Political****Theory 3 sh**

A critical examination of the nature, means and ends of political power. The focus will be on those concerns about and responses to the human conditions which link classical and modern political philosophy.

**POL 223 Modern Western Political****Theory 3 sh**

A critical examination of political theory as it developed in the West since Machiavelli. Emphasis will be on the development of liberalism, democracy, socialism, communism and fascism. Contemporary trends will be considered.

**POL 225 Planning and Decision-Making Theory 3 sh**

An examination of modern techniques of rational decision-making such as cost-benefit analysis, with special attention given to how these techniques are applied to environmental problems. Problems in planning and the quantification of values are considered.

**POL 230 American Political****Parties 3 sh**

The first part of the course will examine the development of party systems from a comparative perspective. The remainder of the course will examine the development and functioning of the American party system. Such topics as interest representation, recruitment, campaigning, party organization, and

electoral behavior will be examined. The role of political parties in a democracy and the concept of party responsibility will also be considered.

**POL 240 American Foreign Policy 3 sh**

A study of the American foreign-policy-making process with a focus upon the institutions and functions of America's foreign relations. Special emphasis is given to the period since 1945. Case studies are utilized.

**POL 250 International Law and Organization 3 sh**

An analytical study of the legal framework, principles, and practices of the nation-state includes the forms and functions of international organizations with special reference to the role of the United Nations in contemporary international politics with a focus on selected legal problems.

**POL 253 Politics of the Middle East 3 sh**

A comparative analysis of the political systems of an area that encompasses seventeen countries, including 13 Arab states, two Persian-dominated states (Iran and Afghanistan), plus Turkey and Israel. Special attention is paid to the fragmented Islamic cultural traditions of the region, the impact of Western Colonialism, the monarchical-socialist dichotomy, the special problems of Israel and the Palestinian Arabs, as well as the politics of oil. **NO PREREQUISITES.**

**POL 255 Global Issues in International Relations: Arms, Economy and Environment 3 ch - 3 sh**

This course will focus on three issues that are very important in the contemporary international system. The issues are the global economy, global environmental problems, and arms control. Each of these issues is a matter of global concern in that they all have impacts and aspects that can affect all nations and their populations.

**POL 258 The Administration of  
U.S. Environmental Law 3 sh**

Designed to introduce students to the legal, administrative and political dimensions that pervade national environmental disputes, laws, and regulations. The course will employ both a legal and administrative process orientation. Through the use of legal case material and legal, political, statutory and regulatory analysis, students are taught about the different ways statutes and regulations attempt to address environmental problems, including the strengths and weaknesses of each generic statutory and regulatory type. No prerequisites, although it is preferred Introduction to ENV 100 Environmental Science or POL 010 American Government be taken first.

**POL/CRJ 260 The Judicial  
Processes 3 sh**

An analytic study of the most significant facets of the entire American legal system. Basic legal theories, basic structure of federal and state court systems. Judicial reasoning process, the system of precedents and the most basic and important substantive areas of law will be considered.

**POL 305 Western European  
Governments 3 sh**

A study of the governmental systems and politics of Western European nations. Special attention is given to Great Britain, France and Germany. Contrasts and comparisons are drawn among these governments and with other governments, including the United States.

**POL 311 Constitutional Law I:  
Institutions and Functions 3 sh**

A study of the development of the Constitution through the interpretations of the Supreme Court. The course emphasizes the institutional aspects of the federal system and also economic regulation within the federal system.

**POL/CRJ 312 Constitutional Law II:  
Civil Liberties 3 sh**

An analytical study of the U.S. Supreme Court cases interpreting clauses of

the Constitution guaranteeing the rights of individuals: the meaning of the Bill of Rights and the Fourteenth Amendment. Attention is focused on recent decisions and their impact on the governmental system and society.

**POL 316 Law and Sex-Based  
Discrimination 3 sh**

An extensive examination of the constitutional and legal bases of sex-based discrimination in the United States. The course will focus specifically on statutory law and judicial decisions relating to discrimination of both men and women.

**POL 320 The American  
Presidency 3 sh**

A study of the development, dynamics, politics, and impact of the American Presidency.

**POL 323 American Political  
Thought 3 sh**

A critical examination of the essence and development of the American political culture. Contemporary trends in American political thought will be considered.

**POL/CRJ 340 Municipal  
Government 3 sh**

The history, organization, structure, and functions of the major types of city in the United States. Modern administrative techniques and methods are examined as they apply to municipalities.

**POL 345 Public Personnel  
Administration and Fiscal  
Management 3 sh**

Analyzes the historical connection between personnel administration and fiscal management; defines and reviews contemporary methods and techniques designed to promote the integration of these critical functions of government.

**POL 360 Russia and the  
Commonwealth of  
Independent States 3 sh**

A critical analysis of the basis, development, structure, and political dynamics of Russia and the Common-

wealth of Independent States. Emphasis will be on the reasons for the disintegration of the Soviet Union, politics and emerging political structures, and new Russian roles in European and international politics. No prerequisites.

**POL 361 Russian Foreign Policy 3 sh**

A survey and analysis of the policy motivation of an important nation — state actor as it continues its difficult adjustments following the demise of the former Soviet Union. Special emphasis is devoted to its evolving relationships with its neighbors, including Ukraine, Kazakstan, Belarus, the Baltic states, as well as Eastern and Western Europe, China, Japan and the U.S. Topics covered include arms control/disarmament, Russia's interests in the Middle East, its approach to the United Nations, and involvement in international economic organizations. No prerequisites, although it is preferred International Relations (POL 020) be taken first.

**POL 370 Independent Study  
in Political Science 3 sh**

Independent reading or research under the supervision of a member of the department in an area of political science of special interest to the student. A total of 6 semester hours may be earned in independent study, with no more than 3 semester hours taken in any one semester. PREREQUISITE: Twelve hours in political science with a Q.P.A. of at least 3.0 in political science, and approval of the faculty member and the departmental chairperson.

**POL 371 Selected Topics  
in Political Science 3 sh**

An analytic study of a selected topic in Political Science. Topics will vary depending upon interests of student and faculty, or timeliness of the subject matter. The course may be repeated for credit twice, provided that the same topic is not repeated.



**POL 380 Senior Seminar  
in Political Science 3 sh**

Readings and discussions in the area of the individual student's interest. The course serves as preparation for the comprehensive examination in Political Science. Required of all Liberal Arts students concentrating in Political Science.

**POL 381 Senior Seminar  
in Public Administration 3 sh**

Readings and discussions on the subject of the field of public administration and in the area of the individual student's interest. The seminar concentrates on the history and nature of public administration. The course serves as preparation for the comprehensive examination in public administration. Required of all Liberal Arts students majoring in Public Administration. PREREQUISITE: Senior standing, Public Administration major.

**POL 390 Federal, State, and/or Local  
Government Internship 12 sh**

A limited number of selected students participate in a study and training program on location in federal, state, or local government offices under faculty supervision for a full semester, full time. Consultation with the Political Science Department is required prior to registration for this program. Open only to Political Science or Public Administration majors.

**POL 398 Honors Supplementary  
Research 1 - 3 sh**  
See page 155.

**POL 425 Public Policy Analysis 3 sh**  
The formulation and implementation of public policy at the national and state levels will be examined. The roles played by elected officials, administrators, political parties, interest groups, and the general public will be considered. Special consideration will be given to how responsive public policy is to public opinion. Graduate course open to juniors and seniors with 2.90 Q.P.A. and Departmental permission.

**POL 435 Technology and Contemporary  
Politics and Society 3 sh**

An examination of the impact of technology on contemporary politics and political and social structures. Attention is focused on the computer revolution in information processing and on techniques of genetic manipulation. The course also includes discussion of public policy issues related to these technologies and questions of technology assessment and control. Permission of instructor for undergraduate credit.

**POL 465 Administrative Law 3 sh**

An analytic study of the law dealing with the power, procedures, and judicial review of the administrative agencies of government; emphasis will be placed on federal agencies and procedures. Graduate course open to juniors and seniors with 2.90 Q.P.A. and Departmental permission.

**PROFESSIONAL WRITING**

**WRI 020 Introduction  
to Film 4 ch - 3 sh**  
A genre approach to film study designed to introduce the general student to basic concepts in film criticism, aesthetics and history. (May not be used to fulfill General Education requirement in Literature)

**WRI 205 Scientific Writing 3 sh**  
The writing of formal reports and technical and scientific papers. PREREQUISITE: ENG 001.

**WRI 207 Business Writing 3 sh**  
Theory of and practice in written business communication. Letters and memoranda, reports, and a research paper are required. Models and case studies are used extensively. PREREQUISITE: an introductory writing course or permission of the department chairperson. ENG 001.

**WRI 208 Creative Writing:  
Exploring Forms 3 sh**  
This course explores the various forms of creative writing through practical examination of the writing

process, writing practice in multiple genres, and experiments in the transformations of familiar forms. While the course is useful particularly to creative writers, it is also designed to develop and sharpen academic or professional writing through creative practice. The course will be modeled as an apprentice workshop. In addition to writing, students will read poetry, fiction, non-fiction, and drama. PREREQUISITE: ENG 001.

**WRI 210 Writing and Publishing 3 sh**  
The study and analysis of several publishing media together with the practice of several types of writing done by media professionals. PREREQUISITE: ENG 001.

**WRI 211 Journalism 3 sh**  
A study of the methods and philosophy of good journalism. A general survey of the development of journalism in this country and a study of the organization, management, and supervision of the content of school publications are included. PREREQUISITE: ENG 001.

**WRI/SPE 212 Introduction to Mass  
Communications 3 sh**  
A study of the method and philosophy of mass communications. Historical growth of the mass media is described. Inter-relationships of present forms of mass communication are linked to the underlying necessity to write, speak, and think clearly and honestly.

**WRI 214 Magazine Writing  
and Layout 3 sh**  
This is a basic course that will introduce the student to American magazines. The growth and development of the medium, current state of the industry, and trends for the future will be examined. Students will write magazine articles and study the processes by which they may be sold to appropriate publications and will be introduced to internal layout and graphic design of a small periodical. PREREQUISITE: ENG 001.

**WRI 216 Writing for Public Relations 3 sh**

This course focuses on the types of writing done in the field of public relations. Students will practice writing a variety of long and short pieces normally composed and distributed by the public relations professional. PREREQUISITE: ENG 001.

**WRI 219 Culture and Media 3 sh**

A course designed to apply a group of diverse texts in cultural criticism and theory to the discursive practices of particular media, specifically journalism and advertising.

**WRI 226 Desktop Publishing: Writing and Editing Newsletters 3 sh**

This is a course in the composing of newsletters by using the latest techniques of desktop publishing. Students will research and write articles, edit them on the computer, then use a page composition program to prepare the entire newsletter, including headlines and some design elements. The end product will be printed on the Apple Laser printer. (The same skills can be used in many other contexts: producing brochures, public relations materials, advertisements, legal forms, classroom handouts, books, full magazines, etc.) PREREQUISITE: ENG 001.

**WRI 241 The Film Idea 4 ch - 3 sh**

Designed to explore the underlying structures of film as a communications medium and as an art form, this course will include both foreign and American films. (May not be used to fulfill General Education requirement in Literature.)

**WRI 303 Investigative Journalism 3 ch - 3 sh**

The strategies and techniques of in-depth reporting. Students will critically analyze professional investigative and public-affairs reportage. In pursuit of their own stories, students will learn how to acquire original and electronic documentation at the local, county, state and federal levels. PREREQUISITE: WRI 211 Journalism or permission of the instructor.

**WRI 304 American Literary Journalism 3 ch - 3 sh**

Study of the relationship between mass media journalism and literature, focusing on strategies and techniques of significant works and movements in American journalistic literature that students may apply to their own writing. The course should be of interest to Professional Writing majors, English majors and others. PREREQUISITE: WRI 211 Journalism or permission of instructor.

**WRI 305 Journalism Laboratory 3 sh**

Students are required to complete a core of writing, editing and production assignments based on current newswriting and editing practices. PREREQUISITE: WRI 211 or SPE/WRI 212, ENG 001 or permission of the instructor.

**WRI 306 Advanced Magazine Writing: Developing and Covering a Specialty 3 sh**

This course takes a step beyond English 214's introduction to the traditional magazine story genre, and thus it assumes that to be successful in the magazine business — either in a staff position or as a freelancer — students must select and be prepared to follow a subject specialty, some area of long time interest to both magazine readers and editors. To achieve this end, the course asks participants to select one of a dozen or so conventional specialties and to follow that specialty throughout the semester.

**WRI 307 Copy and Line Editing 3 sh**

Students in this course will learn and practice the tasks of copy and line editing. The course moves from simple copy editing — that is, the production of clear and correct copy — through the polishing and refocusing of that copy and on to the elimination of bias and libel in both reportage and the expression of opinion. PREREQUISITE: ENG 001 and two additional writing courses or permission of the instructor.

**WRI 308 Rhetoric and Writing 3 sh**

This course focuses on established and developing rhetorical and stylistic theories which form the conceptual base of the practice and study of writing and stresses the students' application of these theories. PREREQUISITE: ENG 001.

**WRI 310 Journalism Seminar: Reviewing the Arts 3 sh**

Students enrolled in the Journalism Seminar in Reviewing the Arts will both study and practice the strategies of reviewing artistic performances and related cultural subjects for the general press. Students will learn the basic methodologies of analysis, interpretation and evaluation of artistic offerings. Emphasis will be on the significance of fairness, balance and taste, and on the duties and responsibilities of the journalist/critic. PREREQUISITE: WRI 211 or permission of the instructor.

**WRI 311 Creative Writing: Short Fiction 3 sh**

An advanced course in the writing of short fiction. PREREQUISITES: ENG 001 and permission of the instructor.

**WRI 312 Creative Writing: Poetry 3 sh**

An advanced course in the writing of poetry. PREREQUISITES: ENG 001 and permission of the instructor.

**WRI 313 Creative Writing: Drama 3 sh**

An advanced course in the writing of drama. PREREQUISITES: permission of the instructor and ENG 001.

**WRI/SPE 336 On-Campus Public Relations Workshop 3 sh**

Students in this course will be assigned to on-campus departments as staff public relations practitioners. They will bear the responsibility of developing a comprehensive public relations and/or promotional program for the assigned office. This can include, but is not limited to, promotional publications, programs, posters, advertising, news releases, and news media contacts. When a Campus Graphics Workshop student is assigned to the same activity,

the WRI/SPE 336 student would share responsibilities with the art student. The art student is responsible for publications and design work, and the public relations student is responsible for media contacts, promotion, and the overall public relations plan. All work will be coordinated with and released through the University Public Relations office. PREREQUISITES: SPE 170 or WRI 216.

**WRI 381 Senior Seminar in Writing 3 sh**  
An exploration of some current concerns in rhetoric, discourse studies, and writing which encourages students to integrate this knowledge with insights gained through the completion of a major writing project. Required of all students in the B.A./English (Professional Writing) program.

**WRI 390 Writing Internship 3 or 6 sh**  
Supervised, practical work experience writing for a newspaper, magazine, or organizational periodical. This internship will be available to students interested in pursuing a writing career. The three-credit internship may be taken twice for credit. The six-credit internship may be taken once for credit. PREREQUISITES: junior or senior standing, approval of the department chairperson, and approval of the Dean of the College of Liberal Arts and Sciences.

## PSYCHOLOGY

**PSY 011 General Psychology 3 sh**  
An introduction to the psychological bases of behavior in motivation, learning, memory, development, personality, perception, abnormal behavior, psychotherapy, attitude change, and group behavior.

**PSY 110 Child Psychology 3 sh**  
This course deals with the organization of psychological processes within the individual as he/she develops from conception to adolescence. It will focus on the physical, social, cognitive, and emotional aspects of child development as well as techniques of child study, theories of learning, genetics, and individual differences. PREREQUISITE: PSY 011. May not be taken for credit if a student has already taken PSY 120 and PSY 125.

**PSY 120 Adolescent Psychology 3 sh**  
A study of the interacting physical, social, and psychological characteristics of the adolescent stages of human development. Special attention will be given to means that parents and professionals might employ to facilitate positive growth and development of the adolescent. PREREQUISITE: PSY 011. May not be taken for credit if a student has already taken PSY 110 and PSY 125.

**PSY 125 Life Span Development 3 sh**  
This course examines human development across the life span from infancy to old age. The emphasis will be on physical, cognitive, social and personality development. Normal development will be stressed but aspects of abnormal functioning will also be considered. PREREQUISITE: PSY 011. May not be taken for credit if a student has already taken PSY 110 and PSY 120.

**PSY 140 Educational Psychology 3 sh**  
The learning process with emphasis on the application of the principles of psychology to the problems of learning in various settings as well as procedures involved in the evaluation of learning. PREREQUISITE: PSY 011.

**PSY 160 Psychology of Exceptional Children 3 sh**  
This course is designed to give students an understanding of the physical, cognitive, social, and emotional development of the exceptional individual. Exceptionalities covered include: gifted, mentally retarded, visually impaired, speech and hearing impaired, physically impaired, learning disabled, and behavior disordered. PREREQUISITE: PSY 011.

**PSY/SOC/POL 200 Statistics for the Social and Behavioral Sciences 3 sh**  
This course considers the application of statistical procedures for the purposes of description and inference in the Social Sciences. Such topics as measures of central tendency variability, correlation, prediction and the normal curve are considered. Inferential techniques such as analyses of variances, trend analysis, and multiple comparisons are also considered. PREREQUISITE: PSY 011 & MAT 101 or its equivalent.

**PSY 201 Computer Techniques For Behavioral Sciences 3 ch - 3 sh**  
This course provides experience in the use of computers in the research process with a focus on data organization, analysis, interpretation, and presentation. The Statistical Package for Social Sciences will be covered in depth. Topics to be explored at an introductory level include interfacing to operating systems (DOS, Windows, UNIX); spreadsheet, graphing, and database applications; and the Internet. PREREQUISITE: PSY/POL/SOC 200 or permission of instructor.

**PSY 202 Psychology of Personality 3 sh**  
A study of the methods and concepts used in studying personality. Consideration is given to various theories as well as the experimental and clinical findings on personality. PREREQUISITE: PSY 011.

**PSY 210 Principles of Psychological Measurement 3 sh**

An introduction to the theory of measurement of human behavior, its application to test and survey design and the application and evaluation of tests and survey tools in practical clinical, industrial, educational, and research situations. PREREQUISITE: PSY 200.

**PSY 215 Psychology of Prejudice 3 sh**

Prejudice will be defined and its origins, benefits to the prejudger and its implications for our society will be discussed. Antecedents of prejudice and means of reducing prejudice will be identified. Prejudice against specific groups of individuals will be explored. PREREQUISITE: PSY 011.

**PSY 220 Personnel and Organizational Psychology 3 sh**

The interactive relationships between organizations and the individual will be analyzed. Psychological principles involved in personnel selection, training, performance appraisal, motivation, group processes, leadership, organizational dynamics, and the work environment are considered. A minor focus on career planning. PREREQUISITE: PSY 011.

**PSY 225 Consumer Psychology 3 sh**

An interdisciplinary analysis of consumer behavior. Emphasis will be given to psychological processes and principles which are related to an individual's response to goods and services. Students will examine related research and the variables that affect consumer behavior. PREREQUISITE: PSY 011.

**PSY 235 Applied Psychology 1, 2, or 3 sh**

Life experiences are examined for psychological principles. Considered are (1) individual experiences of growth and change; (2) education and technology; and (3) elements of society. These units develop practical applications of psychology. Any one, any two or all three units may be taken.

**PSY 240 Social Psychology 3 sh**

The behavior of the individual in society, the actions of humans in relation to other persons, the development of social goals, and social behavior. Prejudice and its effects on the individual as well as attitude formation and change will be discussed. PREREQUISITE: PSY 011.

**PSY 250 Abnormal Psychology 3 sh**

This course reviews the history, causes, symptoms, and treatment of the various types of abnormal behaviors. Special emphasis is placed on neurosis, psychosis, and psychosomatic disorders as well as organic bases of psychological functioning. Each diagnostic category is considered in light of traditional as well as current theory with special attention given to current research in the field. PREREQUISITE: PSY 011.

**PSY 255 Environmental Psychology 3 sh**

The study of individual and group behavior as it relates to natural and human-made environments. Emphasis is placed on aspects of the environment such as space, physical arrangements, crowding, pollution, etc. as they relate to perception, development, and adjustment. Research methods for studying aspects of the environment are an integral part of the course. PREREQUISITE: PSY 011.

**PSY 260 Psychology of Human Communication 3 sh**

Cognitive, emotive, and perceptual development and processes of communicative behavior. Included will be an overview of applicable theories and research, the influence of psychological, situational, and personality factors, and the interactive active processes of verbal and non-verbal communication. PREREQUISITE: PSY 011.

**PSY 265 Human Sexual Behavior 3 sh**

An overview of the current scientific knowledge and research methods concerning human sexuality. The influence of learning, feelings, motivations, interactions, subtleties,

problems and therapies of sexual behavior will be discussed. PREREQUISITE: Permission of instructor.

**PSY 270 Experimental Psychology 3 sh**

This course is designed to acquaint the student with experimental procedures in psychology. Experience is gained in the structuring, conducting, and interpretation of simple psychological experiments. The collecting of data, analyzing the data, and the writing of the research reports are stressed. PREREQUISITES: PSY 011 and PSY 200 or permission of the instructor.

**PSY 280, 281, 282, 283, 284, 285, 286, 287, 288, 289 Selected Topics in Psychology 3 sh**

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. PREREQUISITE: PSY 011.

**PSY/ANT 290 Culture and Personality 3 sh**

The course is designed as an interdisciplinary survey of the field of culture and personality. The key problem involves investigating the concepts of culture and personality and the nature of the relationship between them. PREREQUISITES: Either ANT 010 or PSY 011.

**PSY 311 Psychology of Learning, Motivation and Emotion 3 sh**

A study of the basic processes in the areas of learning, motivation, and emotion as viewed through the major theoretical systems and empirical research. PREREQUISITE: PSY 011.

**PSY 312 Sensation and Perception 3 sh**

An overview of visual and auditory perception combining the empirical and phenomenal approaches. Sensory and perceptual bases of color, form, space, sound, and music are covered. PREREQUISITE: PSY 011.

**PSY 325 Physiological Psychology 3 sh**

This course is designed to explore the relationships between physiological functions and their behavioral manifestations. The sensory systems, the central and peripheral nervous systems, and the glands will be covered as they affect motivation, emotion, learning and memory, and psychopathology. Normal as well as abnormal functions are examined. PREREQUISITE: PSY 011.

**PSY 340 Cognitive Processes 3 sh**

This course is a study of mental activities and the mind. Topics include human learning, memory, imagery, reasoning, concept formation, problem-solving, and creativity. PREREQUISITES: PSY 011, PSY 200.

**PSY 360 Introduction to Clinical Psychology I 3 sh**

This course is designed to acquaint the student with the field of clinical psychology, its professional problems, the treatment methods used, and the identification of areas in which clinical psychologists apply techniques for helping others. Students will be given rudimentary background knowledge in testing techniques, interviewing, and psychotherapy. PREREQUISITES: PSY 011 and PSY 250 or permission of the instructor.

**PSY 362 Internship in Psychology 6 - 12 sh**

One semester of supervised internship in clinical, counseling, personnel or consumer psychology consists of approximately two days per week, spent in cooperating public agencies or private organizations, where psychological services are performed. A seminar will provide orientation and opportunity for review of issues and procedures relevant to the internship experiences. With the permission of the instructor, the internship is open to students who have satisfactorily completed a minimum of 15 semester hours in the major. PREREQUISITES: PSY 250 and PSY 360 for the Clinical/Counseling Internship, PSY 220 for the Personnel Internship, PSY 225 for the Consumer Internship.

**PSY 363 Clinical Internship: Fieldwork 16 ch - 3 sh**

One semester supervised internship at agencies and organizations offering clinical/counseling services. Students spend two days a week at the internship site and have the opportunity to observe and/or provide psychometric services, interviews, counseling, and other clinical services under supervision. The course must be taken concurrently with PSY 364 Clinical Internship. Seminar or with permission from the instructor. PREREQUISITES: PSY 250 AND PSY 360.

**PSY 364 Clinical Internship: Seminar 3 sh**

This course is designed to supplement the clinical internship fieldwork. The students will have the opportunity to discuss issues relevant to their internship experience and to present cases. The course must be taken concurrently with PSY 363: Clinical Internship: Fieldwork or with permission from the instructor. PREREQUISITES: PSY 250 and PSY 360.

**PSY 370 Selected Research Topics in Psychology 1, 2, or 3 sh**

This course is designed to allow students to do independent research under the direction of a faculty member. The topic must be accepted by the department member with whom the student will work. PREREQUISITES: PSY 011, PSY 200 and PSY 270. May be repeated for credit.

**PSY 379 History and Systems of Psychology 3 sh**

An historical introduction to the various points of view in contemporary theories of behavior. PREREQUISITE: PSY 011.

**PSY 380 Senior Seminar in Psychology 3 sh**

Readings and discussions centered about the significant issues within the discipline. This course should be taken during the school year of expected graduation. Required of Psychology majors.

**PSY 398 Honors Supplementary Research 1 - 3 sh**  
See page 155.

**PSY 429 Behavior Modification Procedures 3 sh**

Topics include behavioral analysis, relaxation training and systematic desensitization, assertiveness training, phobias, depression, sexual dysfunction, marital therapy, anxiety, habit disorders, child rearing, and others. Permission of instructor required.

**PSY/HEA 430 Fundamental Techniques in Health Psychology 3 sh**

This course will discuss the history, rationale, and scientific underpinnings of health psychology. Areas to be covered are: relaxation techniques (including autogenic training, diaphragmatic breathing, imaging procedures, progressive muscle relaxation and body scanning), massage (Trager, Alexander, Feldenkrais, Kripalu), exercise, hypnosis, nutrition, and lifestyle interventions. The major emphasis in the course will be on biofeedback and its role in wellness and in the mitigation of illness. PREREQUISITE: PSY 011.

**PSY 431 Health Psychology: Biopsychosocial Factors in Health and Illness 3 ch - 3 sh**

Health psychology is the scientific study of behaviors that relate to health enhancement, disease prevention and management, and rehabilitation. This course will examine the biological, psychological, and social factors in health and illness. The course is organized into three parts: foundations of health psychology, biopsychosocial factors in health, and biopsychosocial factors in illness. Health psychology is both an applied field and a basic research field. Accordingly, scientific accomplishments are examined as they impact on clinical application. PREREQUISITE: PSY 011.

**PSY 432 Human Neuropsychology 3 sh**

This course will consider aspects of the relationship between brain and behavior in the adult and the developing human through the critical examination of evidence derived from (1) the study of the effects of focal lesions of the

cerebral cortex, (2) the effect of fore-brain commissurotomy and (3) the neuropsychological investigation of subjects without neurological impairment. Relevant experimental literature concerned with animals other than humans will also be considered. PREREQUISITE: PSY 011 or permission of instructor.

**PSY 433 The Psychology of Leadership in Organizations 3 sh**

The primary focus of this course is on organizational leadership. The course will present a broad survey of theory and research on leadership in formal organizations, with special emphasis on leader effectiveness. Conceptual and methodological issues pertaining to leader effectiveness will be explored from four major research approaches: (1) the power-influence approach; (2) the trait approach; (3) the behavior approach; and (4) the situational approach. An integrating model of leadership will also be examined. PREREQUISITE: PSY 011, PSY 220 or permission of the instructor.

**PSY/HEA 436 Selected Applications of Biofeedback and Self-Regulation 3 sh**

This course will focus upon the uses of biofeedback in selected aspects of health maintenance and disease prevention. Biofeedback is used to teach individuals to regulate autonomic nervous system responses to produce optimal well-being and effective functioning. Students will learn to use biofeedback instruments to monitor temperature, muscle tension, brain waves, blood volume, blood pressure, heart rate, breathing and epidermal response. Students will be required to conduct a biofeedback research project. PREREQUISITE: HEA/PSY 430 or permission of instructor.

**RELATED ARTS**

**RAR 015 Encounters with the Visual and Performing Arts 3 sh**

This interdisciplinary course is designed to provide the student with 1) an understanding of general principles which can be applied to various arts; 2) basic viewer/audience member skills and attitudes; 3) an appreciation of both the relatedness and distinctiveness of the various visual and performing arts; and, 4) some basic concepts in art, music, theatre, and dance. Required attendance at specified arts events provides shared experience upon which some lectures and discussions are based. A field trip to New York or Philadelphia may be required. The course may be used in Humanities b, d, General Education V, as well as in Free Electives.

**RAR 105 Aesthetic Experience in the Arts 3 ch - 3 sh**

This course is designed to acquaint the student with the knowledge, skills and attitudes associated with a deepened understanding of aesthetic experience, which is assumed to be a natural component of all human experience. The student will gain a general understanding of theoretical issues but, and more importantly, will be able to respond more effectively to aesthetic experiences in attending to a wide range of arts events. A New York field trip is required. This course may be selected under humanities or free electives.

**RAR 342 Criticism in Art 3 sh**

This course is an advanced course based on the fundamental principles introduced in "Aesthetic Experience in the Arts" (RAR 105). The visual arts provide the main focus of the course, although other art forms may also be considered to a lesser extent. Students study methods of criticism and the aesthetic theories upon which those methods are based. The writings of contemporary critics are analyzed and compared. Students develop their critical skills as they study original art works. This course may be selected under humanities.

**RAR 375 Selected Topics in Related Arts 1 - 3 sh**

This course will provide opportunities for students to focus upon examples, theoretical concepts, and issues associated with a particular area in which the arts intersect. Activities will include extensive readings, attendance at arts events, critical evaluations, presentations, and preparation of papers on selected research and theory relating to issues in the *interrelationships* among the arts. The course may be repeated more than once, to a maximum of 6 credits, providing that the same topic is not repeated.

**RAR 380 Related Arts Seminar 3 sh**

Related Arts students with Senior standing will examine the relationships among the visual arts, music, literature, writings, theatre, and dance in preparation for individually developed projects.

**RAR 381 Related Arts Workshop 3 sh**

Through appropriate research the Senior Related Arts student will integrate two or more of the fine arts in the development of an individual presentation. PREREQUISITES: RAR 105 and RAR 380.

## **RUSSIAN**

### **RUS 011, RUS 012 Elementary Russian (I & II) 6 sh**

Beginners develop basic skills in pronunciation, aural comprehension, speaking, and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

### **RUS 013 Elementary Conversation in Russian 2 ch - 1 sh**

Intensive oral practice covering vocabulary and structures of survival situations. One hour of class. Open to students of RUS 011 and 012 or with permission of the instructor. May be repeated.

### **RUS 015 Intensive Introductory Russian Conversation 3 sh**

This intensive introductory conversation course is designed for beginners or have the instructor's permission to enroll. It will develop the students' speaking and listening skills by focusing on practical topics. To facilitate these skills, it will make use of a broad spectrum of audio-visual aids. This course will enable the students to understand a native Russian speaker on a variety of practical topics, respond to simple questions, and talk about themselves and their environment within the range of the material. The course will be taught in Russian.

### **RUS 021, RUS 022 Intermediate Russian (III & IV) 6 sh**

Students who have satisfactorily completed six hours of elementary Russian, or who have had at least two years of Russian in high school, continue the development of the basic skills in aural comprehension, speaking and writing. In addition, emphasis is placed on independent readings. Offered in two semesters of three hours each.

### **RUS 023 Intermediate Conversation in Russian 2 ch - 1 sh**

Intensive oral practice covering topics that prepare the student for foreign travel and the encounter of Russian

people. One hour of class; one hour of language lab. Open to students of RUS 021 and 022 or with the permission of the instructor. May be repeated.

### **RUS 025 Intensive Intermediate Russian Conversation 3 sh**

This course is designed for students who completed RUS 011 and RUS 012 or their equivalent, or have the instructor's permission to enroll and/or can pass Level 2 of the ACTFL's oral proficiency guidelines. It will introduce more complex topics to the students to improve their understanding of spoken Russian and enable them to converse in Russian in formal and informal settings, deal with abstract problems, provide explanations, describe events and places in detail, and support opinions.

### **RUS 130 Composition and Conversation 3 sh**

An intensive grammar review, creative composition and conversation on current topics. PREREQUISITE: RUS 022, or its equivalent.

### **RUS 210 Advanced Language and Phonetics 3 sh**

Emphasis is placed on the ability to speak and write Russian with additional intensive training in phonetics. PREREQUISITE: RUS 022, or its equivalent.

### **RUS 220 Applied Linguistics in Russian 3 sh**

Introduction to general linguistics, emphasizing the practical application of the basic structural and phonetic patterns of Russian to good language learning. PREREQUISITE: RUS 022, or its equivalent.

### **RUS 251, RUS 252 Masterpieces of Russian Literature in English Translation I & II 6 sh**

An in-depth study in English translation of selected masterpieces of Russian literature. The first semester (I) deals with Russian literature from Pushkin through Tolstoy; the second semester (II) begins with Chekov, continues through Solzhenitsyn, and includes a survey of modern Russian poetry. Either semester may be taken independently.

### **RUS 290 Business Russian 3 sh**

Business Russian is the study of the etiquette, diction, and grammatical constructions necessary for business communication: conversations, telephone calls, correspondence, agreements, and contracts. In the first part of the course, students systematically acquire the vocabulary for these types of communication through the use of examples, exercises, and adapted reading selections that illustrate the more dense and complicated sentence structures sometimes found in written business materials. Dialogues of Russian business encounters and the texts of Russian documents complement the lexical and grammatical focuses of the first part of the course.

### **RUS 301, 302 Survey of Russian Literature I & II 6 sh**

First semester: the development of Russian literature from its origin to Pushkin. Second semester: continuation of the survey to the beginning of the 20th Century. Representative readings of varied literary types. PREREQUISITE: RUS 022 or its equivalent.

### **RUS 310 Russian Literature of the 20th Century 3 sh**

Representative works of 20th century Russian and Soviet literature will be studied. Modern literary trends and the effects of political interference with and censorship of Soviet literature will also be investigated. PREREQUISITE: RUS 022 or its equivalent.

### **RUS 320 Development of the Russian Novel 3 sh**

Origins and development of the novel in each of the literary periods. PREREQUISITE: RUS 022 or its equivalent.

### **RUS 325, RUS 326 Advanced Syntax and Stylistics I & II 6 sh**

For those who have successfully completed RUS 130 and RUS 210, or have instructor's permission, but who need additional work toward mastering the points of syntax.

Extensive practice in analyzing literary and colloquial styles. Intensive practice in writing and speaking acceptable idiomatic Russian. PREREQUISITES: RUS 130 and 210 or their equivalent.

**RUS 335 Russian Lyric Poetry 3 sh**

The lyric poetry of Russia from the 18th Century to the present. Concentration will be placed on the outstanding writers of the various literary movements and their representative works in this genre. A special emphasis will be placed on the rules and patterns of Russian versification. PREREQUISITE: RUS 022 or its equivalent.

**RUS 340 Russian Culture and Civilization 3 sh**

Russian life and culture as seen in art, music, and philosophy. Important aspects of civilization will be scrutinized by considering important historical, economic, social and political influences. PREREQUISITE: RUS 022 or its equivalent.

**RUS 345 Modern Russian Drama and Theatre 3 sh**

The development of Russian drama from the 18th century to the present. Attention will also be given to significant Russian contributions to acting and stagecraft techniques, with special emphasis upon the work of Stanislavsky and his Moscow Art Theatre. PREREQUISITE: RUS 022 or its equivalent.

**RUS 370 Selected Topics in Russian: Slavic Studies 3 sh**

This course entails an intensive study of literary topics, styles, trends, criticism and writers not included or not covered in depth in other Russian courses. May be repeated for credit.

**RUS 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**RUS 470 Selected Topics in Foreign Languages 3 sh**

This course offers an intensive study of literary topics, cultural phenomena, styles, trends, criticisms, and writers not included or not covered in depth in other foreign language courses.

**SECONDARY EDUCATION**

**SEU 210 Secondary School Curriculum 3 sh**

The content and organization of high school curriculum, and of the nature and content of major fields of instruction. Requirements and standards that affect the high school program.

**SEU 220 Appraisal and Evaluation in Secondary Education 3 sh**

This course emphasizes the value, use and interpretation of standardized group tests for various purposes in the public schools. Training is given in the administration and evaluation of group intelligence, achievement, and aptitude tests and personality and interest inventories. The organization and operation of school testing programs will be analyzed. Teacher constructed evaluative criteria will be required.

**SEU 310 Problems of Secondary Education 3 sh**

Theoretical and practical approaches relevant to current problems in secondary education with attention on the broad spectrum as well as immediate day-to-day situations will be explored. A focused effort has been made to develop a responsive course to prepare the teacher candidates to be effective classroom managers for learners in today's inclusive and diverse classrooms.

**Methods of Teaching Secondary School Subjects 4 ch - 3 sh each**

**SEU 321 Communication**

**SEU 322 Foreign Languages**

**SEU 323 Mathematics**

**SEU 324 Science**

**SEU 325 Social Studies**

Methods, techniques and evaluative instruments applicable to the teaching of secondary school subjects. The course is basically the responsibility of a coordinator and a "team" of teachers, each of whom is a specialist in the subject matter fields of Communication, Social Studies, Foreign Languages, Science, and Mathematics. Laboratory experiences include classroom observation, micro-teaching, films, lectures by resource persons, construction of a teaching unit, etc. Summer course not available to undergraduates.

**SEU 340 Teaching Reading in Secondary School Academic Subjects 3 sh**

This course is designed to provide teachers of the content areas with basic strategies for coping with the unique reading demands of their subjects. Emphasis is upon diagnosis, comprehension, vocabulary skills, and study skills. Required of all students majoring in secondary education.

**SEU 380 Independent Study in Secondary Education 1 - 3 sh**

Independent Study is based on a student's pursuit of a subject in Secondary Education not covered within regularly offered undergraduate courses. Undergraduate students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Secondary Education Department is required.

**SEU 390 Student Teaching and Practicum I — (Secondary) 7 sh**

**SEU 391 Student Teaching and Practicum II — (Secondary) 7 sh**

Both SEU 390 & SEU 391 are segments of a single course which provides two full-time classroom experiences comprising an entire semester.



Opportunities are provided for observation and participation in all activities related to teaching on the secondary level. The practicum, concurrent with student teaching, is a clearing house for the selection, organization, and presentation of proposed units, lessons, or activities. In addition, it provides an opportunity for the discussion of problems that arise in the classroom. Students organize units of instruction and present them for evaluation by the group. Juniors are encouraged wherever feasible to participate in the practicum.

## SOCIAL WORK

### **SWK 100 Introduction to Social Work and Social Welfare 3 sh**

This course provides an overview of the development of social welfare and social work practice. The historical development of social welfare is related to the emergence and the development of the social work profession. The course introduces knowledge, values, and skills as the common base of generalist social work practice. The problem solving approach to social work practice with multi-level system is introduced. Required of all social work majors. PREREQUISITE: None.

### **SWK 130 Poverty and Social Welfare 3 sh**

This course defines poverty and examines groups in poverty in the United States. It traces poverty in America from a historical perspective, reviews major social welfare programs designed to respond to poverty and examines their effectiveness. Special populations and groups at risk encountered by social workers in practice will be examined with emphasis on viewing individual, family, and community functioning from a person-in-environment perspective. Major oppressive institutions and their effects on people in poverty are examined. Social work methods for social change to prevent, alleviate and resolve poverty are

introduced. PREREQUISITE: SWK 100 Introduction to Social Work and Social Welfare or permission of the instructor.

### **SWK 160 Human Behavior and Social Environment 3 ch - 3 sh**

This course teaches students to evaluate and apply biological, psychological, and social theories to client's situation with a particular emphasis on the examination of the effects of the interplay of biological, psychological, social, economical and cultural elements of the social environment on human functioning. The impact of social and economic forces on the individual's behavior are presented. Systems promoting or deterring people in the attainment and maintenance of optimal health and well-being are explored with particular attention on the effects of these systems on ethnic and racial minorities, sexual minorities, women, and persons with disability. Required of all social work majors. PREREQUISITES: SWK 100 Introduction to Social Work and Social Welfare; SWK 130 Poverty and Social Welfare; ANT 010 Cultural Anthropology; ENG 001 English Composition I; PHI 015 Critical Thinking; PSY 011 General Psychology; PSY 125 Life Span Development; SOC 010 Principles of Sociology; BIO 010 Biological Science; BIO 140 Biology and Society; or by permission of the instructor.

### **SWK 200 The Professional Context of Social Work Practice 3 sh**

The course builds upon and reinforces the foundation of generalist social work knowledge, social work values, principles, ethics, attitudes, and skills introduced in the Introduction to Social Work Course. Students study the Code of Ethics of the National Association of Social Workers and practice ethical decision making. The course reinforces the skills necessary to implement the phases of the problem-solving approach to social work practice with multi-level client systems (individuals, groups, families, communities, organizations). Students will be required to participate in a

30-hour volunteer field/laboratory experience. A grade of "C" or better is required in this course to enter SWK 250. PREREQUISITES: Students must complete SWK 160 Human Behavior and Social Environment, and its prerequisites, or take it concurrently with SWK 160 Human Behavior and Social Environment, only with permission of the instructor. Open only to Social Work majors and minors.

### **SWK 250 Social Work With Individuals: Practice I 3 sh**

The Social Work Practice with Individuals course starts a series of social work practice courses in which the skills of the problem solving approach are practiced with multi-level client systems (individual, groups, families, communities, and organizations). In this course students practice relationship building, interviewing techniques, case recording and further develop their problem-solving skills which were reinforced in the Professional Context of Social Work Practice Course. Students will be expected to participate in a laboratory experience involving a helping relationship project. Open to majors only. Required of all social work majors. A grade of "C" or better is required in this course to enter SWK 265 Social Work Practice with Groups and Families: Practice II. PREREQUISITE: SWK 200 The Professional Context of Social Work Practice.

### **SWK 255 Social Welfare Policy 3 sh**

The course defines social welfare policy in the context of social policy and examines its philosophical and historical roots. The policy making process is examined and the major actors associated with it are identified. A significant part of the course will be spent in the study of major welfare policies and the groups affected by them. Strategies and involvement of people for policy change are examined. PREREQUISITES: SWK 100 Introduction to Social Work and Social Welfare; SWK 130 Poverty and Social Welfare; POL 010 American Government and or permission of instructor.

**SWK 265 Social Work Practice****With Groups and Families:****Practice II****3 sh**

This course is the second in the series of social work practice courses in which the skills of the problem solving approach are practiced with multi-level client systems (individual, groups, families, communities, organizations). The course focuses on concepts, methods, and skills in social work practice with groups and families. Family development and dynamics will be studied and social work intervention techniques with emphasis on problem solving will be examined. Through class discussions, exercises and group projects, students will apply their understanding of group dynamics and family assessment, and demonstrate social work practice skills with groups and families. A grade of "C" or better is required in this course. Required of all social work majors. Open to majors only. PREREQUISITE: SWK 250 Social Work Practice with Individuals: Practice I.

**SWK 280 Social Work Practice With Communities and Organizations:****Practice III****3 sh**

This is the third course in a series of social work practice courses. This course reinforces and applies social work knowledge, values, and skills using the problem solving approach and focuses on intervention strategies with communities and organizations. Students practice generalist social work within a systems theory framework. A policy practice emphasis is applied for advocacy and change strategies with agencies and communities. Particular attention will be given to strategies of change with disenfranchised and minority populations. Required of all majors. Open to majors only. A grade of "C" or better in this course is required to enter SWK 381 Field Instruction in Social Work I, and SWK 382 Professional Seminar in Social Work I. PREREQUISITE: SWK 265 Social Work Practice with Groups and Families: Practice II.

**SWK/SOC 290 Social Gerontology and Social Welfare****3 sh**

This course is aimed at analyzing the process of aging from a sociological perspective and studying the resources that our society provides for the over-sixty population through social welfare measures. There will be double pronged emphasis: one placed upon various social problems confronting them in American society; the second emphasis will be on the array of social welfare services available, the social policies implicit in the provision of such services, and the social work practices that enable older persons and their families to secure such services. PREREQUISITE: SOC 010 Principles of Sociology, or SWK 100 Introduction to Social Work and Social Welfare. Prerequisite for Social Work majors: SWK 250 Social Work Practice with Individuals: Practice I.

**SWK 315 Human Services Administration and Social Policy****3 sh**

This is an analysis of the administrative and public policy processes in social welfare agencies. The course builds upon the foundations presented in Social Welfare Policy and specifically focuses on the unique values and needs of human service agencies. PREREQUISITE: SWK 250 Social Work Practice with Individuals: Practice I, and SWK 255 Social Welfare Policy.

**SWK/NUR 320 Case Management — an Interdisciplinary Approach****3 sh**

The course will cover principles, theory, and the historical development of case management as an interdisciplinary method of delivering health and human services. Emphasis will be placed on the development of skill in implementing the phases of this method of practice (Assessment, Goal Setting, Case planning, Monitoring progress, and Termination and Evaluation). Appropriate groups of client populations will be identified and issues related to their unique needs in relation to their social environment will be examined.

PREREQUISITES: SWK 250 Social Work Practice with Individuals: Practice I; or NUR 299 Adaptation of the Nurse as a Professional Person; and NUR 312 Adaptation of the Individual and Family; or by permission of the instructor.

**SWK 328 Child Welfare and Social Work Practice****3 sh**

This course introduces the student to the field of Child Welfare and examines both social policy and social work practice concerns. Emphasis will be placed on child protective services, foster care, and adoption. Developmental issues, as well as natural and foster family functioning will be studied. Special social work intervention strategies such as foster and adoptive family assessment, abuse assessment, and child advocacy will be learned. PREREQUISITES: SWK 250 Social Work Practice with Individuals, Practice I, or by permission of the instructor.

**SWK 360 Methods and Practice of Social Work Research****3 sh**

The course reviews the classic social and behavioral research process and develops skills in formulating research problem(s) and questions, conducting a comprehensive literature review, establishing hypotheses, and choosing research designs. Data collection instruments, analysis techniques, and report writing are emphasized. Ethical and moral issues which arise when dealing with human subjects, as well as sensitivity to cultural diversity of the research participants are included. Emphasis is placed on social work practice evaluation techniques, including single-subject as well as experimental and quasi-experimental designs. Computers and information technology for social work practice are introduced. This course must be taken concurrently with SWK 382 Professional Seminar in Social Work I, or with permission of the instructor.

PREREQUISITES: MAT 015 Introduction to Mathematics, or a higher level MAT course and MIC 010 Micro-computer Applications, or a higher level MIC course, or with permission of instructor.

**SWK 370 - 378 Selected Topics  
in Social Work and  
Social Welfare 3 sh**

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times. PREREQUISITE: SWK 250 Social Work Practice with Individuals: Practice I.

**SWK 379 Independent Study 1 - 3 sh**

The student must confer and reach agreement with the faculty member who will guide the independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (course content, evaluation procedures, reading list, etc.) must be filed with, and receive the approval of, the faculty of the discipline involved and of the departmental chairperson. May be repeated for credit. Student must have completed 12 clock hours in the major to enroll.

**SWK 381 Field Instruction  
in Social Work I 4 ch - 4 sh**

This is the first of two semesters (total 480 hours) of field instruction in social welfare agency settings which are required under the supervision of a professional social worker. Students apply foundation knowledge, skills, values, and ethics of professional generalist practice. Through supervision, students enhance their awareness of self, develop written and oral communication skills necessary for analysis of professional practice, and apply critical analytic skills for implementing and evaluating agency policies and programs. Students operationalize the unique values, functions and roles of profes-

sional social work practice and develop competency in identifying and assessing situations where the relationship of people and their social environment needs to be enhanced or changed. The professional responsibility of advocacy toward change and recognition of the impact of policy and programs on oppressed groups is an integral part of the applied learning. A grade of "C" or better is required in this course to enter SWK 383 Social Work Field Instruction II. Must be taken concurrently with SWK 382 Professional Seminar in Social Work I. Offered in fall only. Open only to majors. Required of all majors. PREREQUISITES: SWK 250 Social Work Practice with Individuals: Practice I, and its prerequisites.

**SWK 382 Professional Seminar  
in Social Work I 2 ch - 2 sh**

This is the first of two semesters of Professional Seminar in Social Work which are required. The Seminars complement the Field Instruction and provide a structured learning opportunity where students process their practice experiences and integrate the common base of social work values, skills, and knowledge of generalist social work in a systems theory perspective. The Seminars also assist students to expand their knowledge of the human services field beyond the confines of their own placement. Topics and policies of social work and social welfare are discussed, based in large part, on the experiences of students in the field through written logs, client summaries, and classroom discussions of experiences including feelings about their social work practice. Must be taken with SWK 381, Field Instruction in Social Work I. A grade of "C" or better is required in this course to enter SWK 384 Professional Seminar in Social Work II. Offered in Spring only. Open to majors only. Required of all majors. PREREQUISITE: SWK 280 Social Work Practice with Communities and Organizations: Practice III, and its prerequisites.

**SWL 383 Field Instruction  
in Social Work II 4 ch - 4 sh**

This is the second semester of field instruction (a total of 480 hours) in social welfare agency settings which is required under the supervision of a professional social worker. Students apply foundation knowledge, skills, values, and ethics of professional generalist practice. Through supervision students enhance their awareness of self, develop written and oral communication skills necessary for analysis of professional practice, and apply critical analytic skills for implementing and evaluating agency policies and programs. Students operationalize the unique values, functions and roles of professional social work practice and develop competency in identifying and assessing situations where the relationship of people and their social environment needs to be enhanced or changed. The professional responsibility of advocacy toward change and recognition of the impact of policy and programs on oppressed groups is an integral part of the applied learning. An agency-based research project is required in this semester of fieldwork. Must be taken concurrently with SWK 384 Professional Seminar in Social Work II. Offered in Spring only. Open only to majors. Required of all majors. PREREQUISITES: SWK 381 Field Instruction in Social Work I, and SWK 382 Professional Seminar in Social Work I, and their prerequisites.

**SWK 384 Professional Seminar  
in Social Work II 2 ch - 2 sh**

This is the second of two required semesters of Professional Seminar in Social Work. The Seminars complement the Field Instruction and provide a structured learning opportunity where students process their practice experiences and integrate the common base of social work values, skills, and knowledge of generalist social work in a systems theory perspective. The Seminars also assist students to expand their knowledge of the human services field beyond the confines of their own placement. Topics and policies of social work and social

welfare are discussed, based in large part on the experiences of students in the field through written logs, client summaries, and classroom discussions of experiences including feelings about their social work practice. An agency-based research paper is required. Must be taken with SWK 383 Field Instruction in Social Work II. Offered in Spring only. Open to majors only. Required of all majors. PREREQUISITES: SWK 381 Field Instruction in Social Work I, and SWK 382 Professional Seminar in Social Work I.

**SWK 398 Honors Supplementary Research** 1 - 3 sh  
See page 155.

## **SOCIOLOGY**

**SOC 010 Principles of Sociology** 3 sh  
The concepts, theories and methods that form the core of the sociological perspective on human behavior. NOTE: This course or permission of instructor is prerequisite to all other sociology courses.

**SOC/CRJ 110 Contemporary Social Problems** 3 sh  
Current problems of urbanization, personal pathology, drug use and abuse, mental illness, sexism, poverty, and race are viewed within the context of social theory.

**SOC 120 Marriage and the Family** 3 sh  
An intensive analysis of contemporary marriage and family patterns and interactive processes in the United States viewed from historical and cross-cultural perspectives.

**SOC 122 Intimate Relationships** 3 sh  
This is a practical course designed to help students understand how cultural, economic, political, and social factors influence the various ways that intimate relationships among adults are formed, maintained, and either succeed or fail.

**SOC 128 Domestic Conflict and Violence in Cross-Societal Perspective** 3 sh  
This course is a sociological analysis of domestic conflict and violence in the United States of America, viewed and interpreted cross-societally from Western Historical and cross-cultural perspectives.

**SOC/ANT 130 Marriage and the Family in Cross-Cultural Perspective** 3 sh  
This course examines the forms taken by marriages and families in various world societies. The following questions will be addressed: What aspects of marriage and family are the same for all humans, and what aspects are variable? What factors account for major cross-cultural differences in the organization of marriage and the family? Why are some features the same (or nearly so) all over? Is there a biosocial base? How are marriage and family relationships used as metaphors in organizing other aspects of social life? PREREQUISITE: SOC 010 or ANT 010 or permission of the instructor.

**SOC 140 Racial and Ethnic Minorities** 3 sh  
The sources and consequences of prejudice and discrimination; minorities in the social structure; strategies and programs to prevent and control inter-group tensions and conflicts.

**SOC/CRJ/POL 150 Law and Society** 3 sh  
A survey of the major philosophies of law and the roles of law in society. The focus will be on how differing perspectives on the nature of law influence ideas about liberty, justice, responsibility and punishment.

**SOC/PSY/POL 200 Statistics for the Social and Behavioral Sciences** 3 sh  
This course considers the application of statistical procedures for the purposes of description and inference in the social sciences. Such topics as measures of central tendency variability, correlation, prediction and

the normal curve are considered. Inferential techniques such as analyses of variances, trend analysis, and multiple comparisons are also considered. PREREQUISITE: PSY 011 and MAT 101 or its equivalent.

**SOC 205 The Sociology of Sport** 3 sh  
This course is aimed at investigating and analyzing the contemporary social issues and problems associated with the growth, spread, diversity and increase in the world of sport.

**SOC 210 Religion and Contemporary Society** 3 sh  
The structure and function of religion as a sociological phenomenon with emphasis on the institutionalization process and types of denominational organization.

**SOC/CRJ 220 Juvenile Delinquency** 3 sh  
An analysis of the nature, type and incidence of delinquency within social milieu; an examination of the social characteristics of delinquents and the theories of delinquency, evaluation of the techniques of prevention and control of social agencies, and trends in delinquency.

**SOC 230 Urban Sociology** 3 sh  
Analysis of contemporary urban society in the United States with emphasis on patterns of city growth, social ecology and urbanism as a way of life.

**SOC 235 Sociology of Sex Roles** 3 sh  
The course will deal with the implication of sociological perspective on sex role differences in contemporary society. More specifically, discussion will be focused on such aspects of the topic as sexual inequality as an aspect of social stratification, origins of sex roles, sex role socialization, sex roles and social policy, sex roles and personal relationships, and the future of the sex roles.

**SOC 240 Population Problems** 3 sh  
An exploration of the causes and consequences of population pressures with special attention to the impact

of population growth on resources and environment.

**SOC/CRJ 245 Sociology of Deviance 3 sh**

An examination of selected types of behavior that violate group norms (e.g., pornography, prostitution, suicide, etc.). Also covered are the processes through which deviance is learned and performed and the consequences of deviant behavior in terms of societal reactions.

**SOC/CRJ 250 Criminology 3 sh**

An intensive review of the major theories of criminal behavior and their applications in crime prevention and control. Examination of leading crime types and criminal behavior systems.

**SOC/CRJ 255 Treatment of Offenders 3 sh**

A study of the major components of the criminal justice system involved in the treatment of offenders with accent upon innovative programs, experimental methods, and current treatment ideology.

**SOC 260 Social Stratification 3 sh**

Theories of social class and mobility with a discussion of problems of measurement and differential levels of wealth, prestige and authority.

**SOC 270 Complex Organizations 3 sh**

The study of modern man's interactions to and within large-scale organizations with emphasis on the characteristics and structure of bureaucracy.

**SOC 275 Social Foundations of Human Behavior 3 sh**

This course deals with the paradox of society's persistence and the individual's uniqueness. The focus of discussion will be on the question: How can we explain how men are held together and, at the same time, set apart? The course will be organized from the theoretical perspective of symbolic interaction within sociology. PREREQUISITE: 6 s.h. in Sociology or permission of the instructor. Open to juniors and seniors only.

**SOC/SWK 290 Social Gerontology and Social Welfare 3 sh**

This course is aimed at analyzing the process of aging from a sociological perspective and studying the resources that our society provides for the over-sixty population through social welfare measures. There will be double pronged emphasis: one placed upon various social problems confronting them in American society; the second emphasis will be on the array of social welfare services available, the social policies implicit in the provision of such services, and the social work practices that enable older persons and their families to secure such services. PREREQUISITE: SOC 010 Principles of Sociology, or SWK 100 Introduction to Social Work and Social Welfare. Prerequisite for Social Work majors: SWK 250 Social Work Practice with Individuals: Practice I.

**SOC 310 Foundations of Sociological Theory 3 sh**

Consideration of the significant developments in sociological thought. Special emphasis will be placed on the contributions of Marx, Weber, Simmel, Pareto, and Durkheim.

**SOC 350 Methods of Social Research 3 sh**

An introduction to sociological research covering research design, data collection, processing, and analysis, sampling, evaluation of research studies.

**SOC 370-378 Selected Topics in Sociology 3 sh**

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

**SOC 379 Independent Study 1 - 3 sh**

Before registering the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit.

**SOC 380 Senior Seminar in Sociology 3 sh**

This course consists of readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Sociology. Required of all Liberal Arts students majoring in Sociology.

**SOC 390 Internship in Sociology 6 sh**

The student is placed in a sociological fieldwork situation in which practical vocational experience can be acquired in some agency or institution related to the student's future career plans. Interested students should apply through their advisor. PREREQUISITE: Junior or Senior status.

**SOC 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**SOC 412 Workshop in Human Relations 3 sh**

Learning how to meet problems of intergroup tension and interpersonal conflict as they arise in school and community. Specific attention to planning instructional programs in human relations and in developing leadership skills for working more effectively with people.

**SOC 450 The Sociology of Education: School and Modern Society 3 sh**

The educational system in the United States as viewed from a sociological perspective, focusing upon social forces that shape the schools and the internal social structure and processes which influence its mission in society.

## SPANISH

*The rationale for these placements is that the policy, as stated, only affects the Spanish program and courses.*

### SPA 011, SPA 012

#### **Intensive Elementary Spanish (I & II) 6 sh**

This semester long course is the Beginning Spanish 011-012 sequence in intensive form for students with minimal or no experience in the language. Emphasis is on oral aspects of the language with substantial work on reading and writing skills and an introduction to Spanish culture. This intensive Spanish course is designed to be taken in one semester (five days a week, six hours of class per week) and requires considerable work and commitment on the part of the student.

### SPA 011, SPA 012

#### **Elementary Spanish (I & II) 6 sh**

This semester is for students with minimal or no experience in the language. Emphasis is on oral aspects of the language with substantial work on reading and writing skills and an introduction to Spanish culture. Offered in two semesters of three hours each.

### SPA 013 Elementary Conversation in Spanish 1 sh

Intensive oral practice covering vocabulary and structures of survival situations. One hour of class. Open to students in SPA 011 and 012 or with permission of the instructor. May be repeated.

### SPA 021, SPA 022

#### **Intensive Spanish (III & IV) 6 sh**

This semester long course is the SPA 021-022 sequence in intensive form for students who have completed SPA 012 or at least 2 years of Spanish in high school. Students continue development of the basic skills of aural comprehension, speaking and writing. In addition, emphasis is placed on independent readings. This intensive Spanish course is designed to be taken in one semester (five days a week, six hours of class per week)

and required considerable work and commitment on the part of the student.

### SPA 021, SPA 022 Intermediate Spanish (III & IV) 6 sh

Students who have satisfactorily completed Elementary Spanish I and II, or who have had at least two years of Spanish in high school, continue the development of the basic skills in aural comprehension, speaking, and writing. In addition, emphasis is placed on independent readings. Offered in two semesters of three hours each.

### SPA 023 Intermediate Conversation in Spanish 1 sh

Intensive oral practice covering topics that prepare the student for foreign travel and the encounter of Hispanic people. One hour of class. Open to students in SPA 021 and 022 or with permission of the instructor. May be repeated.

### SPA 211 Spanish Composition and Conversation I 3 ch

An intensive grammar review, creative composition and conversation on current topics. PREREQUISITE: SPA 022 or its equivalent.

### SPA 212 Advanced Conversation in Spanish 3 sh

This course is designed for students who have successfully completed the intermediate level of SPA 022 or the equivalent and who are not native speakers of Spanish. The focus is on oral communication in Spanish. The course will be conducted in Spanish and oral projects will be used for purposes of grade assessment. PREREQUISITE: SPA 022 or permission of instructor.

### SPA 213 Advanced Conversation in Spanish 3 ch - 3 sh

This course is designed for students who have successfully completed the intermediate level of Spanish (022 or the equivalent) and who are not native speakers of Spanish. The focus is on oral communication in Spanish. The course will be conducted in Spanish

and oral projects will be used for purposes of grade assessment. PREREQUISITE: SPA 022 or permission of instructor.

### SPA 220 Applied Linguistics in Spanish 3 sh

Introduction to general linguistics, emphasizing the practical application of the basic structural and phonetic patterns of Spanish to language teaching. Students will be introduced to the fundamental principals of phonology, morphology, syntax, semantics, language acquisition, foreign language acquisition, foreign language methodology, socio-linguistics and neurolinguistics. (In Spanish.) PREREQUISITE: SPA 211 or permission of instructor.

### SPA 247 Modern Latin American Literature in Translation 3 sh

An in-depth study of outstanding twentieth century literary works of Latin American writers. The survey will include representative works from the major literary genres: novel, short story, drama, and poetry.

### SPA 251 Survey of Spanish Literature in Translation I 3 ch - 3 sh

This course traces the development of Spanish literature from its origins through the nineteenth century. Representative Readings of the major literary types (In English translation).

### SPA 252 Survey of Spanish Literature in Translation II 3 ch - 3 sh

This course traces the development of Spanish literature from the nineteenth century through the present. Representative Readings of the major literary types (In English translation). NO PREREQUISITES.

### SPA 290 Commercial Spanish 3 sh

Commercial Spanish 290 provides the students with practical and useful information regarding a variety of business communications used in the Spanish-speaking countries. The student will develop an understanding of how business people in the Hispanic world communicate with one another, and study the type of

business communications not commonly used by companies and institutions in Latin America, Spain and other Spanish-speaking areas. The emphasis is on acquiring the skills necessary to write correct, concise and clear messages, and on mastering the various approaches to effective written communications. (In Spanish.) PREREQUISITE: Permission of instructor.

**SPA 301 Survey of Spanish Literature I 6 sh**

The development of Spanish literature from its origins through the end of the eighteenth century. Representative readings of the major literary types. (In Spanish). PREREQUISITE: SPA 212 or permission of instructor.

**SPA 302 Survey of Spanish Literature II 6 sh**

A survey of the literature of Spain of the nineteenth and into the twentieth centuries. Representative readings of varied literary types. (In Spanish). PREREQUISITE: SPA 212 or permission of instructor.

**SPA 311 Spanish American Literature to 1910 3 sh**

SPA 311 will survey the development of Spanish American Literature from its origins to 1910. Representative readings of the major literary types. (In Spanish.) PREREQUISITE: SPA 212 or permission of instructor.

**SPA 312 Spanish American Literature of the 20th Century 3 sh**

SPA 312 is a continuation of SPA 311 and will survey the development of Spanish American Literature from 1910 to the present day. (In Spanish.) PREREQUISITE: SPA 212 or permission of instructor.

**SPA 320 Contemporary Spanish Novel 3 sh**

SPA 320 will survey the development and history of the Spanish Peninsular Novel from 1898 to the present. Representative works and authors from this period will be studied. (In Spanish.) PREREQUISITE: SPA 212 or permission of instructor.

**SPA 325 Advanced Syntax and Stylistics I 3 sh**

This two-semester course is designed for those who have successfully completed SPA 211 and 212, and who are ready for additional work toward mastering the fine points of syntax. In addition, the course will offer extensive practice in analyzing literary and colloquial styles and will provide the practice needed to develop the ability of the student to express him/herself in writing and speaking in acceptable idiomatic styles. Greater proficiency, ease and enjoyment in reading prose and poetry in various styles will be a concomitant result of the course. (In Spanish). PREREQUISITE: SPA 212 or permission of instructor.

**SPA 326 Advanced Syntax and Stylistics II 3 sh**

This is the second part of a two-semester course designed for those who have successfully completed SPA 211 & 212, and who are ready for additional work toward mastering the fine points of syntax. In addition, the course will offer extensive practice in analyzing literary and colloquial styles and will provide the practice needed to develop the ability of the student to express him/herself in writing and speaking in acceptable idiomatic styles. Greater proficiency, ease and enjoyment in reading prose and poetry in various styles will be a concomitant result of the course. (In Spanish). PREREQUISITE: SPA 212 or permission of instructor.

**SPA 330 Contemporary Spanish Drama 3 sh**

This course studies the development of modern and contemporary Peninsular Spanish Drama from 1898 to the Present. Representative works from the Generation of '98, the Spanish Civil War, Franquist Spain, and the New Democratic Spain will be studied. The course will include extensive reading of plays as well as written and oral work on criticism, history, authors and periods. (In Spanish.) A trip to NYC or Philadelphia to see a play is a course requirement. PREREQUISITE: SPA 212 or permission of instructor.

**SPA 340 Spanish Culture and Civilization 3 sh**

Spanish life and culture as seen in literature, art, music and philosophy. The folklore, linguistic and social aspects of culture will also be covered to acquaint the student with the complexities of the national background. (In Spanish.) PREREQUISITE: SPA 211 or concurrent with SPA 211 or permission of instructor.

**SPA 341 Modern Spain 1898 - Present 3 sh**

Modern Spain 1898 - present is designed as a socio-political-economic study of Spain since the loss of her colonial empire. It is a study of historical, literary and cultural trends and genres as well as the development and progression of the arts and literatures in Spain within the context of the growth and development of its social, economic and political institutions. The course will relate developments in Spain to those in Europe and the world. (In Spanish). PREREQUISITE: SPA 211 or permission of instructor.

**SPA 345 Latin American Culture and Civilization to the Nineteenth Century 3 sh**

A selective study of important Latin American historical, social, literary and cultural trends and artistic movements and values from the pre-Columbian period to the nineteenth century. Emphasis will be placed on the Latin American versions of key Western periods terms such as: Renaissance, Baroque and the Enlightenment. Some literary selections and artistic works are selectively introduced in order to illustrate the cultural trends under study. (In Spanish). PREREQUISITE: SPA 022 or its equivalent.

**SPA 346 Latin American Culture and Civilization from the Nineteenth Century to the Present 3 sh**

This course, which could be taken independently from the previous, continues the study of important Latin American cultural trends and values

from the nineteenth century to the present. Emphasis will be placed on the Latin American versions of key Western-period terms such as romanticism, avant-garde approaches as well as on locally generated movements such as Modernismo, Arielismo, Indigenismo, etc. Some literary selections and artistic works are selectively introduced in order to illustrate the cultural trends under study. (In Spanish.) PREREQUISITE: SPA 022 or its equivalent.

**SPA 350 Spanish Drama of the Golden Age 3 sh**

This course will present the development of the Spanish national drama in the Sixteenth Century and its culmination in the latter part of the Seventeenth Century. Students will become familiar with the contribution of the Spanish theater to the development of a national awareness and those traditional values considered to be essentially Spanish. Students will become familiar with the versification forms used by the dramatists of the era. (In Spanish.) SPA 212 or permission of instructor.

**SPA 355 Spanish Literature of the Golden Age 3 sh**

Emphasis on the development of the different forms of the Spanish novel, the various genres of poetry and dramatic developments of the period. (In Spanish.) PREREQUISITE: SPA 212 or permission of instructor.

**SPA 370 Selected Topics in Spanish 3 sh**

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.) PREREQUISITE: SPA 212 or permission of instructor.

**SPA 380 Senior Seminar in Spanish 3 sh**

This course consists of extensive readings, intensive oral work in the form of discussions and in-class presentations, and written paper(s) in preparation for the comprehensive

exams in Spanish. The content of the course will revolve around solidifying the students' knowledge of literary periods, characteristics and genre, principal authors, and their works with their historical and cultural content. PREREQUISITE: To be taken in Fall semester of senior year and after student has completed 12 credits in advanced course work. (In Spanish.) B.S.Ed. students must take this course prior to Student Teaching.

**SPA 390 International Internship in Spanish 3 sh**

This course is designed for the student wishing to spend an extended period of time abroad or at an approved domestic agency/organization in either an internship situation or non-traditional studies. Studies must demonstrate that the internship or non-traditional program will be conducted in the foreign language of study and will be adequately supervised. They must present written details of the program including objectives and methods of study to their academic advisor for approval prior to the period of study. Students must also present a written journal, paper or other relevant materials to the Program Director on their return and be prepared to make a presentation about their experiences (1 - 9 hours). PREREQUISITES: Spanish major and permission of Department chair and advisor, junior or senior status; 2.5 GPA in major or 2.0 GPA overall.

**SPA 398 Honors Supplementary Research 1 - 3 sh**

See page 155.

**SPA 470 Selected Topics in Spanish 3 ch - 3 sh**

This course offers an intensive study of literary topics, cultural phenomena, styles, trends, criticisms, and writers not included or not covered in depth in other Spanish courses.

**SPA 495 Independent Study in Spanish 1-3 ch - 1-3 sh**

This course, which shall be taught in Spanish, is for students who wish to study and explore, in depth, aspects of Spanish and American literatures, cultures and societies or a special topic in Spanish language. It is open to both graduate and undergraduate students. Students may register for this course more than once, up to a maximum of six semester hours of credit, so long as they do not repeat the same topic. The student must confer and reach agreement with the faculty member who will guide the independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (course content, evaluation procedures, reading list, etc.) must be filed with and receive approval of the majority of Spanish professors and of the departmental chairperson. PREREQUISITE: Graduate status or undergraduate students with a QPA of 2.50 or better based on a minimum of 12 s.h. above SPA 022, in their major field.

**SPECIAL EDUCATION**

**SPU 040 Survey of Speech Problems 3 sh**

A survey of speech and hearing disorders such as delayed language development, articulation disorders, voice problems, hearing loss and stuttering. Attention is given to the recognition of these difficulties, causal factors, and a knowledge of school and community facilities for aiding these individuals.

**SPU 100 Introduction to Special Education 3 sh**

This course, designed for prospective classroom teachers, surveys the development and provision of special education services to exceptional individuals classified as mentally/physically handicapped, sensory impaired, communication disordered, and gifted and talented.



**SPU 110 Survey of Programs and Services for Students with Visual Impairments 3 ch - 2 sh**

This course provides an introduction to educational programming and services for students with visual impairments, including history, prevalence, psychosocial needs, developmental characteristics, multi-cultural needs, social skills, working with parents, professional organizations, and legislation.

**SPU 140 Phonetics 3 sh**

A study of phonetic systems leading to the understanding of the science of speech sounds as elements of language, auditory training through dictation, and transcription of the student's own speech and that of others. The broad and narrow symbols of the International Phonetic Association alphabet are used.

**SPU 142 Normal Speech & Language Development 3 sh**

A study of speech and language acquisition in the "normal" child.

**SPU 144 Anatomy & Physiology of the Speech Mechanism 3 sh**

A study of the anatomy and physiology of the speech mechanism dealing with the specific anatomy involved and its function in relation to speech production.

**SPU 200 Reading, Writing, and Teaching Literary Braille 3 ch - 2 sh**

This course provides knowledge and skills in reading and writing Braille 1 and 2 in the literary Braille code. It presents an overview of other means of communication used by the blind, including those with multiple disabilities. Experiences are structured to include writing Braille with a Perkins Braille Writer, reading and inkprinting Braille material, basic textbook formatting, methods of teaching Braille reading, and an introduction to computer systems used to produce Braille.

**SPU 202 Orientation and Mobility for Teachers of Students with Visual Impairment 3 sh**

This course covers exploration of space in the home and school environment and the wider community according to individual needs of students with visual impairments. Practical experiences are provided in orientation and mobility training under conditions of simulated blindness. Experiences are structured to sequentially afford environmental situations of increasing complexity. Students will learn how to utilize functioning sense modalities in conjunction with specially designed mobility techniques for the purpose of teaching individuals how to move safely, effectively, and independently in the environment.

**SPU 204 Anatomy and Physical Aspects of the Eye 3 sh**

This course provides lectures and demonstrations on anatomy and physiology of the eye. The course will cover structure and function of the eye, causes and implications of eye conditions, clinical and functional vision assessments, the relationship of visual impairment to other disabilities, neurological aspects of visual impairments, and educational implications. The course will provide opportunities for student use of low vision aids, activities with low vision simulation, and completion of a functional vision assessment.

**SPU 220 Special Class Methods 3 sh**

A study of purposes of atypical classes, curricular content and its organization, child-case study techniques, classroom management and the various methods of teaching the atypical child.

**SPU 222 Reading and Other Language Arts for Exceptional Children 3 sh**

An introductory study in the teaching of reading and language arts for Special Education majors. The study will present a brief historical overview of language arts and reading. A sequence of language/reading developmental skills will be presented in oral and written form. An emphasis

on instructional tools, guidelines for instruction, testing and evaluative procedures, organizational and teaching strategies, remedial methods and techniques, and prevocational and vocational language skills for the exceptional child in preschool through secondary education will be introduced in this study.

**SPU 240 Language Disorders 3 sh**

This course is designed to provide students with an understanding of language disorders in children. Diagnostic tests and therapeutic techniques will be presented. PREREQUISITE: SPU 142.

**SPU 242 Hearing Problems and Audiometry 3 sh**

A study of anatomy and physiology of the auditory mechanism and different types of hearing difficulties, basic hearing tests and evaluation procedures.

**SPU 244 Aural Rehabilitation 3 sh**

Special techniques for the habilitation and rehabilitation of the hearing impaired individual. PREREQUISITE: SPU 242.

**SPU/EDU 245 Communication Disorders & the Classroom Teacher 3 sh**

This course is designed to enable the teacher to comprehend the stages of speech and language development in the child, to recognize typical speech and language problems, and to develop skill in motivating and guiding pupils in acquiring correct and effective habits of oral communication.

**SPU 246 Articulation and Stuttering 3 sh**

The etiology, diagnosis and treatment of articulation and stuttering disorders. PREREQUISITES: SPU 142 and SPU 144.

**SPU 247 Augmentative and Alternative Communication 3 sh**

Background information on the non-speaking population will be presented. Interaction will be emphasized. Methods of communication for those persons without functional speech and/or a writing system will be studied.

**SPU 248 Organic Disorders 3 sh**  
The etiology, diagnosis and treatment of speech disorders associated with organic abnormalities. PREREQUISITE: SPU 142 and SPU 144.

**SPU 300 Reading, Writing and Teaching Literary Braille, Nemeth Mathematics Code, and Other Braille Codes 3 ch - 2 sh**  
This course provides knowledge and skills in Nemeth braille, grade 3 braille, and extended experiences in reading and writing grade 2 braille. This course includes the use of slate and stylus in preparing drills, assignments, and in taking notes. Advanced methods of teaching braille are emphasized. Braille music and foreign language braille is introduced. Other forms of computer braille are introduced and used in assignments. PREREQUISITES: SPU 200.

**SPU 302 Adapting Materials and Methods of Instruction and Evaluation for Teaching Students with Visual Impairments 4 ch - 3 sh**  
This course provides strategies for teaching and adapting materials and instruction in content areas, communication skills (reading and writing braille, reading and writing print with and without low vision devices), listening skills, use of technology, independent living skills, career/vocational concerns, physical education, and leisure and recreation for students with visual impairments, including multiple disabilities. The course provides a theoretical framework for the concept of teacher as lifelong learner, assessment strategies for learning medium and reading medium, writing IEPs, and research applications. PREREQUISITES: SPU 110, 200, 204, 300.

**SPU 320 Curriculum Development for the Mentally and Physically Handicapped 3 sh**  
This course relates to the nature of curriculum design, the application of curriculum construction, analysis and evaluation of curriculum materials and methods for the exceptional children

on the elementary, junior and senior high levels. PREREQUISITE: SPU 220 or permission of the professor.

**SPU 322 Learning Disabilities 3 sh**  
The course will provide a survey of the historical and educational bases for the development of programs for learning disabled children and youth. Students will be introduced to definitions, etiologies, and theoretical approaches to learning disabilities, as well as specific types of learning disabilities, classroom diagnostic procedures, and remediation techniques. PREREQUISITE: SPU 100 or permission of instructor.

**SPU 326 Mental Retardation 3 sh**  
The course will address the developmental characteristics of individuals possessing varying levels of mental retardation. Included will be a study of etiologies, curricular intent, related services, and instructional techniques related to the education and habilitation of mildly, moderately, severely, and profoundly retarded populations. PREREQUISITE: SPU 100 or permission of instructor.

**SPU 328 Behavior Disorders 3 sh**  
The course will address the education of children and youth possessing significant behavior disorders. Included will be a study of causal theories, characteristics, assessment procedures, and multi-disciplinary services, with the focus being on educational intervention strategies appropriate for behavior disordered individuals. PREREQUISITE: SPU 100 or permission of instructor.

**SPU/ARU 329 Arts and Crafts for the Atypical 6 ch - 3 sh**  
Field experiences, research and art production analysis provide an orientation to the understanding of the art of atypical individuals. Implications which handicapping conditions have for the art learning process are examined through art studio experiences.

**SPU 330 Physically/Multiply Handicapping Conditions 3 sh**  
The course will address medical, physical, and psychological aspects of physically/multiply handicapping conditions. Included will be an examination of intervention strategies relevant to the education, training, and habilitation of physically/multiply handicapped individuals. PREREQUISITE: SPU 100 or permission of instructor.

**SPU 340 Psychology of Speech and Hearing 3 sh**  
A study of the correlates of human communication with special emphasis on the psychology of communication and the psychology of learning and behavior. PREREQUISITE: SPU 240.

**SPU 342 Clinical Methods and Materials 3 sh**  
This course will emphasize additional techniques used to assess and remediate language, articulation and stuttering disorders. Students will gain exposure to materials relevant to the speech-language field. PREREQUISITE: SPU 240 and SPU 246.

**SPU 344 Seminar in Speech and Language Pathology 3 sh**  
A seminar consisting of readings, discussions and research concerning issues central to the speech-language pathology discipline. This seminar will enable students to obtain additional information in an area of interest. PREREQUISITE: Permission of professor.

**SPU 350 Clinic & Practicum I 3 sh**  
Participation in clinical practice with speech, language, and hearing problems, observations of clinical procedures, and writing of clinical reports. Minimum of 75 accrued clock hours necessary for completion of the course. Travel to off-campus clinic sites will be required. PREREQUISITE: Permission of the professor.

**SPU 352 Clinic & Practicum II 3 sh**  
Participation in clinical practice with speech, language, and hearing problems and writing of reports. A

higher level of functioning than that exhibited in SPU 350 is expected. Minimum of 75 accrued clock hours are necessary for course completion. Travel to off-campus clinic sites will be required. **PREREQUISITE:** SPU 350.

**SPU 380 Independent Study 3 sh**  
Qualified students will be permitted to conduct independent investigations, under supervision, in specific areas.

**SPU 390 Student Teaching and Practicum: Visual Impairment I 7 sh**

**SPU 391 Student Teaching and Practicum: Visual Impairment II 7 sh**

This course provides for observation and participation in the performance of the duties of a teacher of students with visual impairments, including those with multiple disabilities in an itinerant, residential, or day school setting. Practicum sessions provide for an opportunity to discuss problems, trends and issues, multi-cultural needs, interviewing techniques, scheduling, lifelong learner model for teachers and students, and organizational skills unique to the field.

**SPU 392 Student Teaching and Practicum: Mentally Handicapped I 7 sh**

**SPU 393 Student Teaching and Practicum: Mentally Handicapped II 7 sh**

An opportunity is provided for observation and student teaching with special populations. Discussion periods are provided for classification techniques, methods and approaches.

**SPU 394 Student Teaching and Practicum: Speech-Language Pathology I 7 sh**

**SPU 395 Student Teaching and Practicum: Speech-Language Pathology II 7 sh**

Student teaching provides opportunities for observation and participation. Students will perform all the duties of a speech-language clinician in two different settings for a semester. The settings will be either two different schools or one school and one agency

depending on the student's preference as well as availability of placements. The practicum concurrent with student teaching provides an opportunity to share knowledge and discuss problems relevant to student teaching and the profession.

## **SPEECH**

**SPE 010 Fundamentals of Speech\* 3 sh**

The course concerns the entire process of oral communication. The emphasis falls on the development and delivery of speeches to inform and to persuade. However, the course also includes an introduction to aspects of interpersonal communication and group discussion. Offered each semester. Fulfills oral communication requirement.

\* SPE 010 fulfills the oral communication requirement.

**SPE 051 Voice and Diction 3 sh**  
Basic processes which underlie the production of American speech sounds, syllables and words. A study of the principles of voice, rhythm, rate, quality and stress; analysis of student's voice and articulation; ear training and self-improvement are emphasized; integration into speaking situations.

**SPE 052 Voice and Diction Workshop 1 sh**

Maintenance and development of effective vocal quality, audibility, expressiveness and articulation through selection and supervised practice of exercises. Course is repeatable to a maximum of three semester hours. **PREREQUISITE:** SPE 051 Voice and Diction.

**SPE 101 Introduction to Speech Communication Theory and Research 3 sh**

This course will provide a basic introduction/orientation to the field of Speech Communication. Specifically, the course will examine the basic research process, major divisions of Speech Communication studies, types

of communication research, major theories and concepts, and the professional journals and publications in the field.

**SPE 110 Small Group Discussion 3 sh**

This is an introduction to the dynamics of communication in small group settings. Students will study and experience group leadership and participation with an emphasis in small group management, problem solving and effective group member participation. The course assignments will include public discussions in small groups and required group activities involving outside of class meetings. It is suggested that this course be taken prior to SPE 325. **PREREQUISITE:** SPE 010.

**SPE 120 Oral Interpretation I 3 sh**

Development of proficiency in reading non-fictional prose, poetry and fiction aloud. Performance will be evaluated in terms of its harmony with content.

**SPE 121 Introduction to Listening 3 sh**

The course is designed to develop the student's understanding of the listening process through the study of relevant theory and research and to provide an opportunity to apply the theory to a variety of communication contexts through communication exercises and presentations.

**SPE 125 Non-Therapeutic Interviewing: Communication Principles and Practices 3 sh - 3 ch**

This course focuses on the development of a working knowledge of the non-therapeutic interview process and the communication skills necessary to effectively interview. Emphasis will be on both the theory underlying the oral interaction as well as practical application and skill development related to interview preparation, verbal and non-verbal communication, use of questions, and presentation of self.

**SPE 130 Interpersonal Communication 3 sh**

This course is an introduction to the theory and practice of interpersonal communication. It is designed to create an increased awareness and application of the concepts, skills, and strategies that are important to enable students to become interpersonally competent communicators in their personal and professional relationships.

**SPE 145 Nonverbal Communication 3 ch - 3 sh**

Students will explore some facets, principles, implications, and effects of non-verbal communication. The course will focus on non-verbal dimensions such as kinesics (body movement), para-language (vocalic communication), facial expression and visual interaction, proxemics (space), haptics (touch), and chronemics (time). Students will apply the principles through communication exercises and presentations.

**SPE 170 An Introduction to Public Relations 3 sh**

This course is designed as an introduction to Public Relations as conducted in business, industry, public institutions and by political figures today. Students will examine the functions of public relations and its place within organizations and society.

**SPE 205 Argumentation and Debate 3 sh - 3 ch**

The course will present an overview of current and historical thought on constructing, evaluating, and analyzing arguments, and give students practice in utilizing arguments in a debate setting. This course will balance theory and presentation focusing on the identification and analysis of different kinds of reasoning used in varying situations including inter-collegiate debates, news media, political speeches and campaigns, advertising, conversation, and education.

**SPE 210 Persuasive Speaking: Theory and Practice 3 sh**

Students will make advanced expository and persuasive speeches.

Emphasis will be on the study and practice of various kinds of effective appeals and proofs.

**SPE/ENG 212 Introduction to Mass Communication 3 sh**

A study of the method and philosophy of mass communications. Historical growth of the mass media is described. Interrelationships of present forms of mass communication are linked to the underlying necessity to write, speak, and think clearly and honestly.

**SPE 213 Communication in a Multi-Cultural World 3 sh**

This course focuses upon the analytic and comparative study of the human communication process as it occurs both across cultures and between people of different cultures. Communication theory is applied to how meaning is derived from behaviors at the interpersonal, group, and international settings. Subjects examined include: variations and similarities in communication across cultures; the interaction of culture with language to influence the encoding and decoding of information; and the effect of cultural variables upon peoples' ability to describe, predict and explain the message of others.

**SPE/MUS 217 The Music of Poetry 3 sh**

This course is designed to develop and intensify the student's intellectual, emotional and aesthetic responses to the aural qualities of poetry and music through an examination of the similarities and differences between them. Emphasis will be placed upon those poems that particularly convey their meaning(s) through aural and temporal devices. Specific attention will be given to structural aspects common to both poetry and music, such as meter, rhythm, tonality and form. Analogies to be drawn between music and poetry will provide the student with provocative frames of references for study. PREREQUISITES: MUS 010 and one basic Literature course.

**SPE 220 Group Performance of Literature 3 sh**

The course provides theory and practice in choosing, editing, casting and rehearsing a group dramatic reading, in a style harmonious to the particular literature, as well as to the audience and occasion. PREREQUISITE: SPE 120.

**SPE 225 Advanced Oral Interpretation 3 sh**

Each student will choose a writer or theme developed in two or more genres. Applying insights drawn from a study of particular selections themselves as well as from biography, history and literary criticism, the student will prepare a solo performance representing the writer or theme. PREREQUISITE: SPE 120.

**SPE 235 Public Relations Cases and Campaigns 3 sh**

This course provides an in-depth approach to the development of Public Relations programs for various types of organizations and publics. The course will utilize a case study approach to analyzing and understanding the factors necessary to develop appropriate public relation programs and strategies. PREREQUISITE: SPE 170.

**SPE 241 Public Relations: Processes and Techniques 3 ch - 3 sh**

This course will build on the basic understanding of public relations and its place in society that was gained from Introduction to Public Relations, to explore practical application of the theory as carried out in modern PR operations. Public Relations professional from various specialties and visits to public relations, printing and media production facilities will serve to give students an insight into the real-world application of the skills and techniques they are learning. Exercises, in which students will produce working PR tools, will put a further practical perspective on the profession. PREREQUISITE: SPE 170 Introduction to Public Relations.

**SPE 325 The Communication Dynamics of Group Interaction 3 sh**

The course will focus on the dynamics of communication interaction related to task-oriented, decision-making groups (e.g., commissions, boards, councils, task-forces, committees, project and volunteer groups). Students will be required to integrate an examination of current research and theory with case-studies and analysis of ongoing task-oriented groups. PREREQUISITE: SPE 010.

**SPE 327 Rhetorical Theory and Criticism 3 sh**

This course will present an overview of the history of rhetorical theory and methods of rhetorical criticism.

**SPE 332 American Speakers and Their Impact 3 sh**

A comprehensive study of the development of American rhetorical theory and criticism, and the public speakers who have reflected these trends. Course will include analysis of the speakers, issues, and the times.

**SPE/ENG 335 The Rhetoric of Literature 3 sh**

Cooperative investigation of the relationships between literature and rhetoric. Selected works of major literary figures will be examined with reference to their persuasive power and their ability to produce attitude change.

**SPE/ENG 336 On-Campus Public Relations Workshop 3 sh**

Students in this course will be assigned to selected on-campus departments, events and offices as staff public relations practitioners. They will bear the responsibility, under the guidance of the instructor, of developing a comprehensive public relations and/or promotional program for the activity to which they are assigned. This can include, but is not limited to, news releases, advertising, news media contact, promotional publications, programs and posters. Examples of departments/activities to which students could be assigned are Performing Dance Portmanteau,

Theatre, Music, Student Activities, Cultural Affairs, Affirmative Action Committee, etc. Students' work will be guided and graded on the basis of regular meetings with the instructor. All work will be closely coordinated with and released through the university Public Relations Office. Where graphic design requirements are encountered, the student would be responsible for seeking out the necessary resources for artwork on campus with the help of the instructor. If a student from CDE 362 Campus Graphics is assigned to the same activity, the ENG/SPE 336 student will be held responsible for establishing maximum rapport and coordination with his/her colleague.

**SPE 341 Voices of American Women 3 sh**

A study of woman's role as speaker in America's development, past and present. Course will include in-depth analysis of specific issues, women and speeches in light of the principles of rhetorical criticism.

**SPE 370 Selected Topics in Speech Communication 1 - 3 sh**

This course will encompass extensive readings, critical evaluations and papers on selected research and theory relating to issues in Speech Communication. Selection of topics will vary depending upon the needs of eligible students. This course may be repeated for credit providing that the same topic is not repeated. PREREQUISITE: Permission of instructor and major advisor.

**SPE 379 Independent Study in Speech Communication 3 sh**

Before registering, the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated.

**SPE/THE 380 Senior Seminar: Issues from Dramatic/Rhetorical Perspectives 3 ch - 3 sh**

Required of all Seniors majoring in Speech Communication and Theatre, the course consists of a weekly three-

hour session in which the students will prepare and discuss contemporary issues related to their individual field of study, and present a series of "position papers" for Departmental evaluation.

**SPE 390 Speech Communication Internship 3 - 12 sh**

Supervised professional field experience related to public relations, publicity, and/or organizational communication. Students will select from two internship options: a) public relations or b) organizational communication. Internship tasks and responsibilities will vary with participating organizations. This internship will be available to selected students majoring/minoring in Speech Communication to be taken for a maximum of 12 credits in the major and 6 credits in the minor. PREREQUISITES: Senior standing, departmental approval. Public relations Interns must have completed SPE 125 and SPE 325. Organizational Communication interns must have completed SPE 125 and SPE 325. Majors may take the Internship for 3 or 6 or 9 or 12 s.h. (It should be noted that only 6 credits may be applied to the Degree Program.) Minors may take the Internship for 3 or 6 s.h.

## TELECOMMUNICATIONS

This is a Bachelor of Science degree program in the Liberal Arts and Sciences. Its major courses consist of the following: CORE Courses (010, 050, 055, 070) must be completed with a C or better before 200 level or above required courses can be taken.

**TVR 010 Introduction to Telecommunications 3 sh**

A survey of the philosophical, historical, social, economic, political and psychological aspects of telecommunications. The emphasis is on radio, broadcast television, cable TV, other electronic media and the distribution of telecommunications signals.

**TVR 050 Audio Production 6 ch - 3 sh**

An introduction to the sound medium and its applications for TVR majors. The fundamental properties of sound are introduced and related to modern audio production techniques. Students conduct lab exercises in editing, mixing, and multi-track recording. Limited enrollment.

**TVR 055 Fundamentals of Video Production 6 ch - 3 sh**

An introduction to the complete process of video production for professional use. Students will learn how video works, how to plan a video production, how to operate various production equipment, how to produce a program, how to evaluate the quality of finished video productions, and how to determine the appropriate type of production for a given circumstance.

**TVR 070 Video Scriptwriting 3 sh**

An introduction to the craft of writing scripts for video productions. Students learn the process and appropriate formats for a variety of studio and field productions through the use of practical applications.

**TVR 110 Fundamentals of Radio 2 sh**

An introduction to the radio medium. Various aspects of radio station operation will be covered, with emphasis on programming, production, sales, news and announcing.

**TVR 113 Telecommunications Advertising and Sales 2 sh**

A survey of the structure and process of advertising and time sales in the electronic media. Students are introduced to both local and national advertising campaigns and techniques used for time sales in radio, television, and cable.

**TVR 120 Programming for Telecommunications 2 sh**

An introduction to the theory and practice of programming for broadcast stations, cable television and emerging technologies. Specific program formats and schedules will be developed and discussed.

**TVR 207 Radio Workshop 2 ch - 1 sh**

Practical work in various phases of the operation of a radio station. PREREQUISITE: Telecommunications core and TVR 110 or permission of instructor.

**TVR 217 Studio Production Workshop 2 ch - 1 sh**

Practical experience in various television studio production crew positions. The student will serve as a camera operator, floor manager, audio technician, assistant director, and other crew positions. Lighting techniques and set design will also be discussed. PREREQUISITE: Telecommunications core.

**TVR 220 Communication Law 2 sh**

This course deals with state, local and federal laws pertaining to broadcasting and cable television. It will trace the historical development of these laws and will explore their pertinence to today's technology and society. Ethical implications of broadcasting, as they border on legal aspects, will also be analyzed.

**TVR 226 Professional Responsibilities in the Electronic Media 3 sh**

This course considers the professional responsibilities associated with mass communication activities, with an emphasis on the electronic media. After beginning with a general consideration of the question of conflicts in responsibilities as experienced by mass media professionals, the course then examines specific types of programming. Case studies and examples are used throughout the course to illustrate the topic at hand. PREREQUISITES: TVR 010, TVR 220, AND PHI 040, or permission of the instructor. Limited enrollment.

**TVR 227 Promotion and Continuity Workshop 2 ch - 1 sh**

Practical work in various aspects of promotion and continuity. Students will work with producers to promote University radio and TV programming. PREREQUISITE: Telecommunications core and TVR 113 or permission of instructor.

**TVR 230 Institutional and Industrial Telecommunications 2 sh**

This course is a survey of non-broadcast telecommunications emphasizing the history and philosophy of institutional and corporate video. Specific production techniques and distribution systems will be discussed. PREREQUISITE: Telecommunications core.

**TVR 250 Telecommunications Engineering and Troubleshooting 3 sh**

Students will learn basic video and audio troubleshooting, basic technical terminology and concepts, operation of broadcast test equipment, and alignment and adjustment of television and audio production equipment. PREREQUISITE: Telecommunications core.

**TVR 255 Video Field Production 6 ch - 3 sh**

This course will introduce the student to basic single camera field production. Students will learn planning and production strategies for single camera field productions. Emphasis will be placed on shooting to edit. Students will be introduced to cuts-only, control track and time code editing systems. Lighting and audio techniques for field production will be treated in depth. PREREQUISITE: TVR core (TVR 010, 050, 055, 070).

**TVR 306 Audio Post Production 6 ch - 3 sh**

This course will examine audio post-production techniques for video. Topics introduced in TVR 050 Audio Production, and TVR 300 Advanced TV Production will be expanded upon and new audio production concepts will be introduced. Students will conduct lab exercises in miking techniques, signal processing, multi-track recording procedures, and audio post-production techniques for video. Limited enrollment. PREREQUISITE: TVR 300 or permission of instructor.

**TVR 320 Telecommunications****Management 3 sh**

An examination of the structures and functions of various telecommunications systems, with an emphasis on effective management. The course applies basic management principles to the specific demands of the telecommunications industry. On-line and printed resources are used to provide students with an accurate understanding of the current state of the industry and knowledge of developing trends. Facility and departmental management are considered, with emphasis on financial and personnel issues. PREREQUISITE: Junior or Senior standing.

**TVR 347 Newsgathering****Workshop 2 ch - 1 sh**

Practical experience with producing insert materials for television news programs. Students will use electronic newsgathering (ENG) techniques to write, shoot, and edit local segments for the campus newscast. They will also have the opportunity to use professional video and copy sources to produce national and international segments. PREREQUISITE: TVR 120 (Management track) or TVR 255 (Production track.)

**TVR 355 Multi-Camera Video****Production 6 ch - 3 sh**

This course will integrate studio and field production techniques, and will emphasize producing and directing for multi-camera productions. It will build upon skills introduced in the first two video production courses. Lighting theory and applications will be further expanded for studio and field production situations. Students will be introduced to multi-camera field production by conducting site surveys and planning and producing several remotes during the semester. PREREQUISITE: TVR 255.

**TVR 357 Field Videography****Workshop 2 ch - 1 sh**

The student will put to practical use production techniques in single camera field production. Students

will further develop skills with a field camera such as composition, aesthetic considerations and shooting for editing. Field audio techniques will also be explored. Students will work as part of a production team with students enrolled in TVR 367 and TVR 387. PREREQUISITE: TVR 255.

**TVR 365 Video Post****Production 6 ch - 3 sh**

This course will focus on video and audio post-production equipment and techniques. Students further develop single camera production skills and will produce programs using advanced video and audio post-production techniques. Students will produce a variety of television programs. PREREQUISITE: TVR 255.

**TVR 367 Post-Production****Workshop 2 ch - 1 sh**

The student will gain practical video post-production experience by editing feature stories from raw videotapes shot by students enrolled in TVR 357. The edited features and related materials will then be edited into video programs under the direction of student producers enrolled in TVR 387. PREREQUISITE: Telecommunications core and TVR 365.

**TVR 370 Selected Topics in****Telecommunications 1 - 3 sh**

This course is an in-depth study of telecommunications topics of current interest. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. PREREQUISITE: Junior standing.

**TVR 379 Independent Study****in Telecommunications 1 - 3 sh**

The student will pursue an area of interest under the direction of a faculty member. An appropriate creative product such as a research paper, case study, or television production will be developed. PREREQUISITES: Junior or Senior standing and permission of the instructor. Limited enrollment.

**TVR 380 Senior Seminar****in Telecommunications 2 sh**

This course serves as a forum for student's various internship experiences. It also prepares students for the process of finding and applying for positions in the telecommunications profession. Required of all majors and must be taken concurrently with TVR 390.

**TVR 387 Program Producer's****Workshop 4 ch - 2 sh**

The student will be assigned the role of producer or co-producer for a weekly, 30-minute cable program. The student will work with other students enrolled in TVR 357 and TVR 367 to organize feature segments for inclusion in the program and will edit these features into a program of air quality. PREREQUISITE: Permission of the instructor.

**TVR 390 Senior Internship 12 sh**

The internship provides the student with a full semester of observation and supervised experience in a cooperating telecommunications system, such as a television station, cable TV company, or any institution that is a major user of telecommunications. Concurrent enrollment in TVR 380 is required. PREREQUISITES: 18 credit hours of TVR courses, overall 2.00 G.P.A., 2.00 G.P.A. in TVR courses, and approval by the Department of Telecommunications.

**TVR 398 Honors Supplementary****Research 1 - 3 sh**

See page 155.

**TVR 399 Honors Seminar in Television and Society 3 sh**

An interdisciplinary examination of the relationship between the television medium and American society. Students will be introduced to the literature on media effects and to simple research techniques which will help them develop their own understanding of the relationship between this powerful medium and the society in which it operates. Specific attention will be given to television in relation to: children, women and minorities,

politics, and the church. **PREREQUISITE:** Enrollment in the Honors Program or permission of the Honors Committee.

#### **TVR 460 Selected Topics:**

##### **Current Methods**

##### **in Telecommunications 3 ch - 3 sh**

An in-depth examination of the state-of-the-art in some aspect of telecommunications. The course content will normally change each time the course is offered. Both the theoretical foundations and professional applications of the topic will be covered. The course is intended for Telecommunications majors and professionals working in the field. It may be repeated for credit to a maximum of six credit hours, provided that the same topic is not repeated.

## **THEATRE**

#### **THE 015 Introduction to Theatre\* 3 sh**

An orientation to the organic nature of the theatre, studying such elements as architecture, stage design, lighting, costume, makeup, acting, and direction.

\* THE 015 is a prerequisite for all upper level theatre courses.

#### **THE 050 Stage Movement:**

##### **Combat A 1.5 ch - 1 sh**

#### **THE 051 Stage Movement:**

##### **Combat B 1.5 ch - 1 sh**

Two one-hour segments of a course in specialized stage movement, stage combat, designed primarily for actors and directors. THE 050A deals with Weaponless Stage Combat, and THE 050B deals with Stage Combat with Weapons. Course is repeatable to a maximum of two semester hours as topic changes. **PREREQUISITE:** THE 015.

#### **THE 125 Theatre Makeup 4 ch - 3 sh**

This course provides an intensive study of the theory and practice of makeup for the theatre: anatomy, color and equipment. Both two-dimensional and three-dimensional techniques are covered. In addition, arrangements and styles of hair will

be included. Students must take a leadership role in applying makeup for current productions. **PREREQUISITE:** THE 015.

#### **THE/MUS 128 The History of American Musical Theatre 3 sh**

A history of the American contribution to the world of theatre. In addition to examining contemporary musicals, American precursors and European influences, innovators and innovations in music, libretto, staging and choreography will be studied as a means of illustrating changes and trends in musical theatre. **PREREQUISITE:** THE 015 and MUS 010.

#### **THE 131 Fundamentals of**

##### **Acting I**

**4 ch - 3 sh**

Preparation of theatre pieces by means of study and improvisation leading to ensemble refinement. Vocal and movement exercises are included. Practical experience beyond class hours is encouraged as an important part of the learning experience. **PREREQUISITE:** THE 015.

#### **THE 140 Play Production**

**3 sh**

A survey of the non-acting and non-directing aspects of theatre. Scenery, lighting, make-up, costumes, properties, sound, and business will be among the subjects considered. Practical work, in addition to class meetings, on current theatrical productions is an important part of the course work. **PREREQUISITE:** THE 015.

#### **THE 195 Theatre Practicum**

**.5 ch**

The study, through preparation and performance, of the processes and skills necessary for theatrical production. These include, but are not limited to acting, directing, costuming, makeup, construction, lighting, and management. This course is open to all students. BFA Related Arts Theatre students and BA Theatre students must accumulate 3 credits of Theatre Practicum as part of their degree requirements. No prerequisite. Offered each semester. May be repeated to a cumulative total of 3 credits.

#### **THE 200 Voice and Movement**

##### **for the Actor**

**3 sh**

Voice and Movement for the Actor will be a process oriented course with two distinctly different yet integrated goals: (1) to introduce the student to the vocal mechanism while increasing vocal flexibility (range), standard (pronunciation and articulation), tone (vocal production), and resonance (volume and vocal quality) — in essence, to train the actor's voice so as to be an organically integrated and healthy instrument, responsive to whatever demands the role may place upon the actor; (2) to train the actor's body so as to be equally responsive to the varying demands of physical characterization. This will be accomplished through a variety of exercises designed to increase strength, flexibility, stamina, coordination, and non-verbal communicative skills. **PREREQUISITE:** THE 015 and THE 131.

#### **THE 205 Costuming For The**

##### **Stage**

**4 ch - 3 sh**

The study of designing and constructing a costume appropriate not only to the character wearing it, but also to the style and the period of the play itself. Topics will include play analysis for costume design requirements, materials needed, estimated cost, drawing patterns, history of costumes, use of the sewing machines, and costume shop safety. Students will be required to take primary responsibilities in costuming areas (designing and construction) for a current production. **PREREQUISITE:** THE 015 and THE 140 or permission of the instructor.

#### **THE 210 Production and Performance**

##### **for Young Audiences**

**3 sh**

Experience in preparing and performing dramatic scripts for young theatre audiences is the focus of this course. Selecting, adapting, and mounting manageable productions, analyzing the needs of the audience, and choosing styles of performance consistent with the material provide students with practical application of theory. **PREREQUISITE:** THE 015.



**THE 215 Scenic Production 4 ch - 3 sh**

The theory and practice of the process by which a scenic design is converted into a finished setting with emphasis on the traditional hard and soft scenery that would be found in a single set production. Topics will include technical analysis of design, scenic materials, estimating cost, drawing for the production shop, and safety. Students will be required to take primary responsibilities in various technical areas for a current production. PREREQUISITES: THE 015 and THE 140 or permission of the instructor.

**THE 220 Intermediate****Acting 4 ch-3 sh**

This course is designed to develop depth and breadth of techniques introduced in Fundamentals of Acting while introducing more advanced skills as well. Emphasis will be placed on Constantin Stanislavski's (and subsequent Stanislavskian based teachers) second tier principles such as communion and adaptation, physicalizing the given circumstances, imagery, tactics and strategies, antecedent action, affective memory, internalization versus externalization, and a variety script/character analysis techniques. Monologue and scene work will be drawn from Modern Masters such as Ibsen, Chekhov, and Strindberg. PREREQUISITE: THE 015 and THE 131.

**THE 231 Acting Studio 4 ch - 3 sh**

Study and preparation for character portrayals in modern and/or classical plays. The course permits the study of various styles: realistic, expressionistic, absurd, or classical. Repetition of the course allows for the cumulative maturation of the student actor to a more professional level. PREREQUISITES: THE 015 and THE 131. Repeatable to 9 sh credit.

**THE 240 Directing 3 sh**

Principles and practices of directing plays are examined in-depth: dramatic structure, style of compositions, rehearsal techniques, design, evaluation, and human relations.

Scenes are prepared for classroom evaluation. PREREQUISITES: THE 015 and THE 131.

**THE 248 Scenic Design 4 ch - 3 sh**

The course will show how to design scenery that is appropriate for a given play and for the conditions under which the play must be presented. Topics include styles of design, drafting and perspective drawing for the stage, script analysis, and scene painting procedures. Participation in actual productions at KU is an integral part of the course. A working knowledge of theatre crafts is assumed. PREREQUISITE: THE 015 and THE 140 or permission of the instructor.

**THE 250 Theatrical Lighting****Practice 3 sh**

A survey of techniques and equipment used to light proscenium, arena, and thrust stages. Principles of electric circuits, optics and color will be examined as they relate to the Theatre. Students are assumed to have a basic knowledge of theatre production practice. Practical work, in addition to class meetings, is a required part of the course work. PREREQUISITE: THE 015.

**THE 260 Theatre Workshop****in England 3 sh**

This course is designed as an intensive and practical study of English theatre as conducted by leading theatre practitioners. It involves travel to London as well as to other theatre centres to work directly with leading National Theatre Associations. Experiential workshops, seminars, and lectures are conducted in conjunction with prominent actors, directors, and technical theatre personnel. Tours of English theatres are included. Pre-trip study and post-trip papers are required. PREREQUISITE: THE 015 or permission of instructor. May be repeated up to 6 credits.

**THE 321 History of the Theatre A 3 sh****THE 322 History of the Theatre B 3 sh**

A comprehensive survey of the history of stage architecture, literature, styles and methods of production essential

to the actor, director and playwright. This course covers two semesters, taken separately or in either order. (321) Development of Theatre from Primitive Times Through the Restoration Period. (322) Development of Theatre from the Restoration to the Present. PREREQUISITE: THE 015.

**THE 324 Great Moments****in American Theatre 3 sh**

A journey into the realm of American drama and theatre; a view of American society as depicted upon the stage. Styles of acting and methods of scene design and production will be stressed. PREREQUISITE: THE 015.

**THE 330 Dramatic Theory****and Criticism 3 sh**

The focus of the course is the study of major theories of dramatic criticism. Beginning with Aristotle's Poetics, and classical theory, the course will provide an historical overview of selected dramatic theories and critics through to the present. PREREQUISITE: THE 015.

**THE 331 Acting III: Monologue/****Audition Workshop 4 ch - 3 sh**

Especially designed for the serious theatre student, the Workshop provides a close examination of selected materials available from various periods and styles which could be used for audition material, in addition to providing the theatre student with assistance in preparing a professional acting resumé and headshot(s). PREREQUISITE: THE 015 and THE 231.

**THE 332 Acting III: Monologue/****Audition Workshop 4 ch - 3 sh**

Especially designed for the serious theatre student, the Workshop provides a close examination of selected materials available from various periods and styles which could be used for audition material, in addition to providing the theatre student with assistance in preparing a professional acting resumé and headshot(s). PREREQUISITE: THE 015 and THE 231 or permission of instructor.

**THE 370 Independent Study  
in Theatre 3 - 6 sh**

Independent Study involves individual, intensive study or work in any theatre area. Independent Study could include, but is not restricted to, topics such as research on an actor or style of acting, a one-person show, and technical theatre work (such as designing and constructing costumes, or lighting, or sets, for actual production). The course may be repeated for credit up to a maximum of six semester hours as topics change. PREREQUISITE: THE 015 and junior or senior standing and permission of instructor and department chairperson.

**THE/SPE 380 Senior Seminar:  
Issues from Dramatic/Rhetorical  
Perspectives 3 sh**

Required of all Seniors majoring in Speech Communication and Theatre, the course consists of a weekly three-hour session in which the students will prepare and discuss contemporary issues related to their individual field of study, and present a series of "position papers" for Departmental evaluation.

**THE 390 Internship in  
Theatre 3 - 15 sh**

Upon approval of a cooperating agency, the student will be placed in a situation in which practical professional experience can be acquired from some organization related to his career plans. Interested students should apply through their advisor. PREREQUISITE: THE 015 and junior or senior status and recommendations of the Department of Speech and Theatre. Course may be repeated to a maximum of 12 credits.

**THE 460 Selected Topics  
in Theatre 3 sh**

An examination of selected topics (at the proposal of the individual professor) not covered or only covered briefly in another undergraduate theatre course. The course topics may include, but not be limited to: "Women in Theatre," "Sex and Politics," "Monodramas — One Man or One Woman Shows," "Theatre and

Social Problems," and others. Offered on an "as needed" basis. Students may repeat the course as often as the topic changes, but may not repeat the same topic. PREREQUISITE: THE 015.

**WOMEN'S STUDIES**

**WST 010 Introduction to  
Women's Studies 3 sh**

This course introduces students to the fundamental issues that affect women's lives by focusing on the socially constructed definitions of women and women's roles. Specific attention will be given to women's experiences vis-a-vis family, work, education, health, and the legal system. While the primary focus will be how gender hierarchies and biases affect diverse American women, the course will also examine how these issues affect the lives of women in other cultures. The course will include readings, writing assignments, lectures, discussions, and guest presenters.

**WST 310 Seminar in  
Women's Studies 3 sh**

This course will provide the requisite structure to assist advanced students to integrate the multi-disciplinary courses of a Women's Studies minor. Students will read, discuss, debate and write about current research and scholarship on women which will be selected to synthesize their understandings of gender issues in a complex world. Topics will also be selected to support the students' major areas of study and career goals. The course may be team-taught or taught by a faculty member in cooperation with guest specialists. PREREQUISITES: WST 010 Introduction to Women's Studies and the completion of 9 hours of electives chosen from the list of courses approved for inclusion in the Women's Studies Minor Program.

**WST 370 Selected Topics in  
Women's Studies 3 sh**

This is a course for students who wish to deal with a specific women's issues topic or system in greater detail than current offerings permit. Topics will depend on needs and interests of students and faculty interest and expertise. May be taken a maximum of three (3) times.

**WST 380 Independent  
Study 1, 2, 3 ch - 1, 2, 3 sh**

This course is designed for students who wish to study a particular problem or selected topic in Women's Studies in depth with a qualified instructor. The student, in consultation with the designated instructor, will propose his/her program of study by defining the focus, setting objectives, and planning outcomes. Depending on the complexity or magnitude of the study, the student will be awarded one, two or three credits. PREREQUISITE: WST 010 Introduction to Women's Studies.

# Administration and Faculty

## PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION

### JAMES H. MC CORMICK CHANCELLOR

#### BOARD OF GOVERNORS

**Dr. Syed R. Ali-Zaidi** ..... Shippenville, PA  
**Dr. Muriel Berman** ..... Allentown, PA  
**Christopher J. Cerski**  
(Student) ..... Wilkes-Barre, PA  
**Jeffrey W. Coy** ..... Shippensburg, PA  
**F. Eugene Dixon, Jr.**  
Chairperson ..... Lafayette Hill, PA  
**Daniel P. Elby** ..... York, PA  
**Richard A. Fino**  
(Student) ..... Nanticoke, PA  
**Glenn Y. Forney** ..... Bradenton, FL  
**Charles A. Gomulka** ..... Pittsburgh, PA  
**Dr. Eugene W. Hickok, Jr.**  
Secretary of Education  
designee ..... Harrisburg, PA  
**F. Joseph Loeper** ..... Drexel Hill, PA  
**Kim E. Lytle**  
Vice Chairperson ..... Pittsburgh, PA  
**Rocco A. Ortenzio** ..... Mechanicsburg, PA  
**Thomas J. Ridge**  
Governor ..... Harrisburg, PA  
**Jere W. Schuler** ..... Lampeter, PA  
**Andrew H. Shoffner**  
(Student) ..... Lewisberry, PA  
**Patrick J. Stapleton, Jr.** ..... Indiana, PA  
**Christine J. Toretti** ..... Indiana, PA  
**R. Benjamin Wiley**  
Vice Chair ..... Erie, PA

#### COUNCIL OF TRUSTEES

**Damian A. Carabello** ..... Kenhorst, PA  
**Ronald H. Frey** ..... Fleetwood, PA  
**Herbert L. Hyman**  
Secretary ..... Allentown, PA  
**Sara R. Mack** ..... Kutztown, PA  
**James H. McCormick**  
Ex-Officio ..... Lemoyne, PA  
**Frank D. McCracken** ..... Reading, PA  
**Richard L. Orwig**  
Chairperson ..... Wyomissing, PA  
**Guido M. Pichini** ..... Wyomissing Hills, PA  
**James W. Schwoyer** ..... Kutztown, PA  
**Lolly Siegel** ..... Allentown, PA  
**John Wabby**  
Vice Chairperson ..... Pottsville, PA

#### ADMINISTRATION

**David E. McFarland**, *President*  
B.S., M.S., Wichita State University;  
Ph.D., University of Kansas  
  
**Linda Goldberg**, *Provost and Vice President  
for Academic Affairs*  
Nursing Diploma, Pottstown Memorial Medical  
Center; B.S.Ed., West Chester University;  
M.A., Kutztown University; MSN, Villanova  
University; Ed.D., Columbia University  
  
**Eileen Shultz**, *Associate Provost*  
B.S., West Chester University; M.Ed., Kutztown  
University; Ed.D., Lehigh University  
  
**James R. Sutherland**, *Vice President for  
Administration and Finance*  
B.A., Old Dominion University; B.S., Central  
Missouri State University; M.B.A., University of  
Missouri; C.P.A., West Virginia and Colorado  
  
**William J. Sutton**, *Vice President for  
Advancement and KU Foundation  
Executive Director*  
B.S., University of Wisconsin-Platteville;  
M.A., Northern Illinois University  
  
**Barbara M. Taliaferro**, *Assistant to the  
President for Human Diversity*  
B.A., Muhlenberg College; M.Ed., Lehigh  
University

**Charles Woodard**, *Vice President for Student  
Affairs*  
B.S., Edinboro University of Pennsylvania;  
M.A., Wayne State University; Ph.D., University  
of Michigan (Ann Arbor)

#### DEANS

**Joseph L. Amprey**, *Dean for Academic Services*  
B.A., Morgan State University; M.Ed., The John  
Hopkins Univ.; M.S., University of Baltimore;  
Ph.D., The American University.  
  
**Arthur W. Bloom**, *Dean, College of Visual and  
Performing Arts*  
A.B., Dartmouth College; Ph.D., Yale University  
  
**Carl E. Brunner**, *Dean, College of Liberal Arts  
and Sciences*  
B.A., M.A., Montclair State University;  
M.S., Ph.D., Syracuse University  
  
**William Bruce Ezell, Jr.**, *Dean, College of  
Graduate Studies*  
B.S., Lander College; M.S., Clemson University;  
Ph.D., Clemson University  
  
**Theodore A. Hartz**, *Dean, College of Business*  
B.S., Bloomsburg University; M.B.A., Lehigh  
University  
  
**U. Mae Reck**, *Dean, College of Education*  
B.S., District of Columbia Teachers College;  
M.A., Federal City College; Ed.D., University of  
North Carolina at Greensboro

#### ASSISTANTS/ASSOCIATE

**Walter Nott**, *Assistant to the Dean, College of  
Liberal Arts and Sciences*  
B.A., Wesleyan University; M.A., University of  
Connecticut  
  
**George Paterno**, *Assistant to the Provost*  
B.A., M.A., Queens College  
  
**Harry Teitelbaum**, *Associate Dean, College of  
Education*  
B.A., M.A., Queens College

## ADMINISTRATIVE OFFICERS

**Camille S. Bartlett**, *Food Services Contract Administrator*  
B.S., Bloomsburg University; M.A., Fairleigh Dickinson University

**Raymond Bazylak**, *Assistant Registrar*  
B.S., Kutztown University

**Terrence D. Beck**, *Director, University Counseling Services, Counselor, Department of Counseling and Psychological Services*  
B.A., Winona State College; M.Ed., Kutztown University; Ed.D., University of Cincinnati

**Rhonda Branford**, *Coordinator of Multicultural Affairs*  
B.A., LaRoche College

**Richard L. Button**, *Director of Development*  
B.A., Mount Union College; M.Ed., Kent State University

**Paula Carroll**, *Student Cooperative Bookstore Manager*  
B.A., Villanova University

**Tammy Court**, *Coordinator of Special Events, Alumni Relations*  
B.S., Kutztown University

**Kent R. Dahlquist**, *Director of Housing and Residence Life*  
B.F.A., M.F.A., Edinboro University; M.S., Western Connecticut State College

**Ellen Daly**, *Director of Research and Information Systems*  
B.A., University of Illinois; M.A.P.A., University of Illinois

**Karen L. DeJarnett**, *Printing Services Manager*

**Margaret Devlin**, *Director of Library Services*  
B.A., M.L.S., University of Pittsburgh

**John A. Erdmann**, *Registrar*  
A.B., Wagner College; M.A., New York University; Ed.D., Temple University

**Anita Faust**, *Director of Financial Aid*  
B.A., Cheyney University; M.S., Cheyney University

**Ellen Finks**, *Director of Cultural Affairs*  
B.A., Pennsylvania State University; M.M., Northwestern University

**James V. Gearhart**, *Director of Budget*  
B.A., Haverford College

**R. Jeff Grimm**, *P.E., Director of Facilities Maintenance and Construction*  
B.S.C.E., The Pennsylvania State University; M.S., Engineering Management, Air Force Institute of Technology

**Mary Gutekunst**, *Director of Health Center*  
Diploma, Reading Hospital School of Nursing; B.S., Lebanon Valley College

**Sandra Hammann**, *Director of Grants and Sponsored Projects*  
B.S., Lock Haven University, M.A., Pennsylvania State University

**Joan L. Holleran**, *Assistant Director of Financial Aid*  
B.S., M.Ed., Kutztown University

**Beatrice Iceman**, *Associate Director of Career Services*  
B.A., College of St. Rose, M.S., Rensselaer Polytechnic Institute

**Robert Kempf**, *Business Manager, Foundation*  
B.S., Penn State University

**Tina M. Katella**, *Assistant Director of Housing and Residence Life for Judicial and Administrative Processes*  
B.S., M.Ed., West Chester University

**Andrea B. Kirshman**, *Associate Director, Career Services*  
B.S., York College of Pennsylvania; M.A., Indiana University of Pennsylvania

**Lisa Ladd-Kidder**, *Director of Academic Advisement*  
B.A., University of South Florida; M.Ed., University of Georgia; M.S., Hahnemann University

**William Lewandowski**, *Interim Director of Computer Services*

**Kathleen Lynch**, *Associate Director of Housing and Residence Life for Personnel & Staff Development*  
B.A., Gannon College; M.A., John Carroll University

**Vicki C. Mayk**, *Director of Media Relations*  
B.S., Northwestern University

**Robert McGowan**, *Director of Admissions*  
B.S., M.Ed., Wayne State University; Ph.D., University of Pittsburgh

**John McKeown**, *Associate Director of Financial Aid*  
B.A., Moravian College, M.Ed., Lehigh University

**Margo Miller**, *Residence Coordinator, Housing and Residence Life*  
B.A. – Psychology, Trenton State College, NJ; M.S. – Counseling/Student Personnel, Shippensburg University

**William F. Mioskie**, *Director, Department of Public Safety*  
B.A., King's College

**Richard A. Morrison**, *Director of Public Relations*  
B.A., Clark University

**Barbara Peters**, *Act 504/ADA Coordinator and Coordinator of Human Diversity Programming*  
B.A., Kutztown State College

**Sharon Picus**, *Associate Director of Personnel*  
A.A., The Pennsylvania State University

**Michael Piovane**, *Director of Alumni Relations*  
B.A., M. Div., St. Charles Seminary; Ed.D., Nova University

**Eric R. Powell**, *Assistant Director of Admissions*  
B.A., M.Ed., Millersville University

**Valerie L. Reidout**, *Assistant Director of Admissions*  
B.S., Kutztown University

**Dawn S. Pfeifer Reitz**, *Residence Coordinator, Residence Life*  
B.A., Speech Communications; M.S., Counseling: Higher Education, West Chester University

**Diane L. Ruth**, *Student Government Chief Financial Officer*  
B.S., Albright College; M.B.A., St. Joseph University

**Kelly C. Ryan**, *Producer/Director, Television Services*  
B.S., Kutztown University

**Matthew L. Santos**, *Director of Sports Information*  
B.A., Rowan College of New Jersey (Glassboro State College)

**Renay Scales**, *Social Equity Director*  
B.S., University of Houston (Central); M.A., University of Houston (CLC); Ph.D. (ABD), University of North Texas

**Pamela J. Scampton**, *Assistant Director of Financial Aid*  
B.S., CIS and B.S., Mathematics, Kutztown University

**Anne K. Searles**, *Coordinator of Student Activities*  
B.A., Muhlenberg College; M.Ed., Kutztown University

**Chris Schumacher**, *Director of Kutztown Resource Management, Inc.*  
B.S., Kutztown University

**Larry S. Sechney**, *Director of Career Services*  
A.A., Northampton Community College; B.S., Kutztown University; M.Ed., Lehigh University

**Mark A. Shuster**, *Associate Director of Housing and Residence Life for Hall Operations*  
B.A., Clarion University; M.A., Indiana University of Pennsylvania

**Gerald L. Silberman**, *University Comptroller*  
B.A., Muhlenberg College

**Terry L. Sitler**, *Director of Conference Services and Director of Athletic Development*  
B.S., East Stroudsburg University;  
M.Ed., Kutztown University

**Dawn Thren**, *Director of University Publications*  
B.A., Bloomsburg University; M.S., Kutztown University

**Doreen M. Tobin**, *Assistant to the Vice President for Student Affairs and Director of Special Projects*  
B.S., M.Ed., St. Lawrence University

**Abigail Vega-Wright**, *Assistant Director of Admissions, Latino School/Community Liaison*  
B.S., King's College

**Donna K. Wagaman**, *Bursar, Bursar's Office*

**Robert Watrous**, *Director of Commuter and Judicial Services*  
B.S., M.Ed., University of Dayton

**Barbara Walczak**, *Director of Annual Giving, KU Foundation*  
B.S., M.Ed., University of Pittsburgh

**Brian Wlazelek**, *Associate Professor, Counseling and Psychological Services*  
B.A., Temple University; M.Ed., Temple University; Ph.D., Lehigh University

**Clark Yeager**, *Director of Athletics*  
B.A., M.A., California State University, Chico

## DEPARTMENT CHAIRPERSONS

*As of January 1998.*

**Thomas J. Grant**, *Accounting*  
B.S., Villanova University; M.B.A., Drexel University; C.M.A., Certified Management Accountant

**Peter Miller**, *Anthropology and Sociology*  
B.A., M.A., Syracuse University

**Mary F. Burkett**, *Art Education and Crafts*  
B.S., Indiana University of Pennsylvania; M.Ed., University of Pittsburgh; Ph.D., Pennsylvania State University

**David R. Peterson**, *Audiovisual Communications and Technology*  
B.S., Kent State University; M.Ed., Ed.D., East Texas State University

**Ronald R. Rhein**, *Biology*  
B.S., Kutztown University; M.S., Pennsylvania University; D.Ed., Lehigh University

**David Bullock**, *Communication Design*  
B.F.A., Virginia Commonwealth University;  
M.F.A., University of Kansas

**Terrence D. Beck**, *Department of Counseling and Psychological Services*  
B.A., Winona State College; M.Ed., Kutztown University; Ed.D., University of Cincinnati

**Margaret A. Herrick**, *Counseling and Human Services*  
B.A., University of Steubenville; M.R.C., Wright State University; Ph.D., Pennsylvania State University

**Deborah A. Sieger**, *Criminal Justice/Social Work*  
R.N., Lankenau Hospital; B.S., West Chester University; MSW, Temple University

**Jane Becker**, *Developmental Studies*  
B.S., West Chester University; M.Ed., Kutztown University; Ed.D., Lehigh University

**Arifeen Daneshyar**, *Economics*  
B.A., University of Delhi; M.A., Old Dominion University; Ph.D., Southern Illinois University

**Elsa Geskus**, *Elementary Education*  
B.A., Calvin College; M.A., Michigan State University; Ed.D., Western Michigan University

**James V. Applewhite**, *English*  
B.A., Amherst College; Ph.D., Tulane University; M.J., Temple University

**Morris K. Perinchief**, *Fine Arts*  
B.A., University of Delaware; M.A., University of Chicago; Ph.D., University of Wisconsin

**Nina Schecktor**, *Foreign Languages*  
B.A., Ursinus College; M.A., Bryn Mawr College; Ph.D., Temple University

**Robert N. Martin**, *Geography*  
B.A., M.A., Ph.D., Indiana University

**Carol J. Teske**, *Health, Physical Education and Dance*  
B.S., Ursinus College; M.Ed., West Chester University; Ed.D., Temple University

**Allida Shuman McKinley**, *History*  
A.B., Wilson College; M.A., Ph.D., Bryn Mawr College

**Linda Lessig**, *Library*  
B.S., Kutztown University; M.S.L.S., Drexel University; Certificate of Advanced Study, Drexel University

**M. Kathryn Holland**, *Library Science*  
B.A., The College of William and Mary; M.S.L.S., Ed.D., East Texas State University

**John Hamrick**, *Management*  
B.S., B.A., M.B.A., Lehigh University; J.D., Temple University

**James Ogden**, *Marketing*  
B.B.E., Eastern Michigan University; M.S., Colorado State University; Ph.D., University of Northern Colorado

**Cherry C. Mauk**, *Mathematics*  
B.A., Ph.D., University of Texas at Austin; M.S., University of Houston

**Edwin Schatkowski**, *Music*  
B.S., West Chester University; M.Ed., Ph.D., Pennsylvania State University

**Vera Brancato**, *Nursing*  
B.S.N., M.S.N., University of Pittsburgh

**Allan Back**, *Philosophy*  
B.A., Reed College, Ph.D., University of Texas at Austin

**Edward L. Simpson**, *Physical Sciences*  
B.S., Kutztown University; M.S., University of Nebraska; Ph.D., Virginia Polytechnic Institute and State University

**Robert Partel**, *Political Science*  
B.S., East Stroudsburg University; M.A., Lehigh University; J.D., Temple University School of Law

**William C. Worrell, Jr.**, *Psychology*  
B.A., Florida State University; M.A., West Virginia University; Ph.D., Kent State University

**Kathleen A. Dolgos**, *Secondary Education*  
B.S., Kutztown University; M.S. in Ed., Kutztown University; Ed.D., Lehigh University

**Raymond Dalfonso**, *Special Education*  
B.A., Marshall University; M.Ed., Salisbury State College; M.S., Towson State University

**Roberta L. Crisson**, *Speech and Theatre*  
A.A., Junior College of Kansas City; B.A., University of Kansas City; M.A., University of Missouri

**Helen Clinton**, *Telecommunications*  
B.S., Clarion University; M.S., Clarion University

## THE FACULTY

*As of January 1998.*

**Paul S. Ache, III**, *Assistant Professor of Mathematics and Computer Science*  
B.S., Ph.D., Texas A & M University;  
M.S., Southwest Texas State University

**Phoebe Adams**, *Fine Arts*  
B.F.A., Philadelphia College of Art; M.A., SUNY, Albany

**Cheryl Agulnick**, *Fine Arts*  
B.F.A., Tyler School of Art; M.F.A., University of Wisconsin-Madison

**Okan Akcay**, *Professor of Marketing*  
B.S., Academy of Economic and Commercial Science, Izmir, Turkey; M.B.A., Michigan State University; D.B.A., Academy of Economics/Commercial Science, Bursa, Turkey

**Emmanuel Akillas**, *Associate Professor of Psychology*  
B.A., American College of Greece;  
M.A., M.A., Ph.D., Temple University

**Sandra D. Allen**, *Assistant Professor, Library*  
A.A., University of Cincinnati; B.A. College of Saint Francis; M.S.L.S. North Texas State University (The University of North Texas)

**Susan Allport-Schneider**, *Associate Professor of Art*  
B.S., Kutztown University; M.Ed., Temple University; Ed.D., Temple University

**Claire Andrews**, *Associate Professor, Library*  
B.A., University of Wyoming; A.M.L.S., University of Michigan; M.S., University of Wisconsin-Milwaukee

**Albert F. Answini**, *Associate Professor of Biology*  
B.S., King's College; M.S., Catholic University of America

**Margaret Morris Apostolos**, *Associate Professor, Library*  
B.S., Kutztown University; M.S.L.S., Syracuse University; M.S.Ed., Temple University

**Ammon Alan Apple**, *Associate Professor of Music*  
B.M. Ed., Temple University; M.M. Ed., Temple University; D.Mus. A., University of Colorado

**James V. Applewhite**, *Associate Professor of English*  
B.A., Amherst College; Ph.D., Tulane University; M.J., Temple University

**Allan Back**, *Professor of Philosophy*  
B.A., Reed College; Ph.D., University of Texas at Austin

**Daniel W. Bacon**, *Associate Professor of Chemistry*  
B.A., DePauw University; M.S., University of Illinois; Ph.D., Indiana University

**Marilyn C. Baguion**, *Assistant Professor of Biology*  
B.S., M.S., University of the Philippines; Ph.D., Kansas State University

**Leonard Barish**, *Associate Professor, Telecommunications*  
B.S., Rochester Institute of Technology; M.S., Clarion University

**Deborah Barlieb**, *Assistant Professor of Counseling and Human Services*  
B.A., Ph.D., Penn State; M.Ed., University of Virginia

**William E. Bateman**, *Associate Professor of Mathematics and Computer Science*  
B.S., Ursinus College; M.S., Ohio State University

**M. Eric Beaven**, *Professor of Speech and Theatre*  
B.A., Columbia Union College; M.A., University of Maryland; Ph.D., Southern Illinois University

**Terrence D. Beck**, *Counselor, Department of Counseling and Psychological Services*  
B.A., Winona State College; M.Ed., Kutztown University; Ed.D., University of Cincinnati

**Jane R. Becker**, *Professor, Department of Developmental Studies*  
B.S., West Chester University; M.Ed., Kutztown University; Ed.D., Lehigh University

**Carolyn V. Bell**, *Associate Professor of Foreign Languages (Spanish)*  
B.A., University of Kentucky; M.A., Kutztown University; Docteur de troisieme cycle — Université de Toulouse (France)

**Samuel J. Bellardo**, *Associate Professor of Music*  
B.S., M.S., Juilliard; D.Ed., Columbia University

**Dan Benson**, *Associate Professor, Chairperson, Management*  
B.S., Wisc. State University (River Falls); M.B.A., University of Wisconsin (Madison)

**Thomas A. Betts**, *Associate Professor of Physical Science*  
Ph.D., Analytical Chemistry, State University at New York at Buffalo; B.S., Chemistry, Clarion University of Pennsylvania

**Robert M. Blackson**, *Professor of History*  
A.B., Ursinus College; M.A., Ph.D., Pennsylvania State University

**Daniel Blanchard**, *Assistant Professor of Physical Sciences*  
B.S., University of Rochester; Ph.D., Massachusetts Institute of Technology

**Karen Blomain**, *Associate Professor of English*  
B.A., Marywood College; M.A., University of Scranton; M.F.A., Columbia University

**Janet I. Bond**, *Associate Professor, Library*  
B.S., Kutztown University; M.S.L.S., Villanova University; M.S., Temple University

**Laurel Bonhage**, *Professor of Communication Design*  
B.F.A., Moore College of Art; M.F.A., Tyler School of Art of Temple University

**Dennis Bonser**, *Professor of English*  
B.S., Kutztown University; M.A., Lehigh University; Ph.D., Indiana University of Pennsylvania

**Jorie Borden**, *Associate Professor of Elementary Education*  
B.S., Kutztown University; M.Ed., Ed.D., Temple University

**Nicolas N. Bowen**, *Associate Professor of Fine Arts*  
B.F.A., Kutztown University; M.F.A., Rochester Institute of Technology

**Vera Brancato**, *Chairperson, Department of Nursing, Professor of Nursing*  
B.S.N., M.S.N., University of Pittsburgh

**James E. Brasted**, *Associate Professor of Political Science*  
B.A., M.A., State University of Iowa

**Gary B. Brey**, *Professor of Political Science*  
B.A., Kutztown University; M.A., Ph.D., Syracuse University

**Frank A. Bucci**, *Professor of Counseling and Human Services*  
Ed.B., Ed.M., Rhode Island College; Ph.D., University of Connecticut

**Fred G. Buckendorff**, *Associate Professor of Mathematics*  
B.S., Elizabethtown College; M.A., University of Montana

**Robert Buff**, *Professor of Mathematics and Computer Science*  
B.A., Montclair State College; M.S., Ph.D., New York University

**David W. Bullock**, *Professor of Communication Design*  
B.F.A., Virginia Commonwealth University; M.F.A., University of Kansas

**Mary F. Burkett (Mrs. Peter St. Onge)**, *Professor of Art*  
B.S., Indiana University of Pennsylvania; M.Ed., University of Pittsburgh; Ph.D., The Pennsylvania State University

**Jeanie Burnett**, *Associate Professor of Elementary Education*  
B.S., Radford College; M.Ed. Salisbury State College; Ed.D., University of Maryland

**Richard H. Cahn**, *Assistant Professor of Secondary Education*

B.A., Susquehanna University; M.Ed., Ed.D., Temple University

**John M. Callahan**, *Professor of Speech and Theatre*

A.B., St. Louis University; M.A., Southern Illinois University at Carbondale; Ph.D., Kent State University

**Joyce C. Campbell**, *Assistant Professor of Health, Physical Education and Dance*

B.A. in Ballet, Indiana University; M.A. in Dance, New York University

**Biruta Cap**, *Professor of Foreign Languages*

B.A., University of Connecticut; M.A., Ph.D., Rutgers, The State University of New Jersey

**James F. L. Carroll**, *Professor of Fine Art*

B.A., M.A., University of Northern Colorado, M.F.A., University of Colorado

**Dan R. Cates**, *Assistant Professor of Library Science*

B.S., English, Northwest Missouri State University; M.L.S., Emporia State University; Ph.D., Indiana University, Indiana

**Sandra Chambers**, *Assistant Professor of Elementary Education*

B.A., Ohio Wesleyan; M.A., Kent State; Ph.D., Kent State

**Carlson R. Chambliss**, *Professor of Physical Sciences, Astronomy*

A.B., Harvard University; M.S., Ph.D., University of Pennsylvania

**Georgia Chamley**, *Assistant Professor of Fine Arts*

B.A., South Dakota State University; M.A., University of Washington

**James G. Chaney**, *Professor of Art Education and Crafts*

B.A., St. Fidelis College; M.F.A., Kent State University

**Allan Chasse**, *Director of Student Teaching Programs, Professor of Art*

A.A.S., B.F.A., Rochester Institute of Technology; M.A., Columbia University; Ed.D., Temple University

**Matthew G. Chin**, *Assistant Professor of Psychology*

B.A., University of Delaware; M.A., Ph.D., University of California, Santa Barbara

**Edwin Ernest Christian**, *Assistant Professor of English*

B.S., Union College; M.A., Loma Linda University; Ph.D., University of Nebraska

**Joseph R. Chuk**, *Associate Professor of Telecommunications*

Bachelor of Philosophy (Ph.B.), Lateran University, Rome, Italy; M. Div., Mary Immaculate Seminary; Th. M., Mary Immaculate Seminary; D. Min., Drew University, M.S., Kutztown University; Ph.D. (ABD), Temple University

**Ann Mary Cimino**, *Associate Professor of Education*

B.S., M.Ed., Pennsylvania State University; Reading Specialists Certificate, Lehigh University

**Kathleen M. Clair**, *Assistant Professor of Communication Design*

B.A., Elmira College; M.A., Binghamton University; M.F.A., Tyler School of Art of Temple University

**A. Charles Clark**, *Associate Professor of Accounting*

B.A., M.A., Manchester University; FCA Chartered Accountant

**Lisa Clark**, *Government Marketing Coordinator, Small Business Development Center*  
TBA

**Claire M. Cleaver**, *Business Consultant, Small Business Development Center*

B.A., M.A., The Pennsylvania State University Liberal Arts College

**Helen E. Clinton**, *Assistant Professor of Telecommunications*

B.S., M.S., Clarion University

**Richard B. Close**, *Professor of Political Science*

A.B., University of Pittsburgh; M.A., Ph.D., University of Massachusetts

**Jo Cohen**, *Assistant Professor, Department of Counseling and Human Services and Staff Psychologist, Department of Counseling and Psychological Services; Pennsylvania Licensed Psychologist*

B.S., M.S., Frostburg State University; Ph.D., University of Georgia

**George M. Colton**, *Counselor, Student Support Services*

B.A., Ed.D., Rutgers University; M.A., New York University

**Karen Connell**, *Instructor in Speech and Theatre*

B.S., M.A., Syracuse University

**Ulysses J. Connor, Jr.**, *Assistant Professor of Development Studies*

B.A. Political Science, Adelphi University; Juris Doctor, College of Law, Syracuse University

**Lisa Coulter**, *Assistant Professor of Counseling & Psychological Services*

B.A., Psychology, Douglass College, Rutgers University; Ph.D., Counseling Psychology, University of North Carolina at Chapel Hill

**Richard S. Courtney**, *Assistant Professor of Geography*

B.A., Earth Science, California State University, Northridge (CSUN); M.A., Geography (CSUN); Ph.D., Geography, The Ohio State University

**Charles A. Coyle**, *Professor of Marketing*

B.S., B.A., LaSalle University; M.B.A., Drexel University; Ed.D., Temple University

**Charlotte M. Craig**, *Professor of German*

B.A., University of Puget Sound; M.A., University of Arizona; Ph.D., Rutgers University

**Linda S. Crawshaw**, *Associate Professor of Health, Physical Education and Dance*

B.S., Lock Haven University; M.S., University of Arizona; Ph.D., Ohio State University

**Duane A. Crider**, *Assistant Professor of Health, Physical Education, and Dance*

B.S., M.Ed., Penn State; Ph.D., Penn State University

**Roberta L. Crisson**, *Assistant Professor of Speech and Theatre*

A.A., Jr. College of Kansas City; B.A., University of Kansas City; M.A., University of Missouri

**Richard A. Crooker**, *Professor of Geography*

B.A., Calif. State University-Chico; M.A., East Michigan University; Ph.D., University of California, Riverside

**Elaine B. Cunfer**, *Associate Professor of Communication Design*

B.F.A., Kutztown University; M.F.A., Tyler School of Art of Temple University

**Susan G. Czerny**, *Assistant Professor, Library*

B.S., Kutztown State College; M.S., Drexel University

**Darrell D. Dahlman**, *Associate Professor of Telecommunications*

B.S., Black Hills State College; M.A., Western Michigan University

**Raymond J. Dalfonso**, *Chair, Department of Special Education*

B.A., Marshall University; M.Ed., Salisbury State College; M.S., Towson University

**Arifeen M. Daneshyar**, *Professor of Economics*

B.A., Delhi University; M.A., Old Dominion University; Ph.D. (Economics), Southern Illinois University

**Denise Danford**, *Instructor of Speech and Theatre*

B.S., M.S., Southern Illinois University at Carbondale

**Matthew Daub**, *Professor of Fine Arts*  
B.A., M.F.A., Southern Illinois University

**Joan Carolyn Davis**, *Instructor of Biology*  
M.S., Rutgers University; M.A., M.A., Glassboro State College; B.A., Mt. St. Mary College

**Linda L. Day**, *Assistant Professor of Mathematics and Computer Science*  
B.S., Western Illinois University; M.S., Lehigh University

**Miles DeCoster**, *Assistant Professor of Communication Design*  
B.F. A., Washington University; M.F.A., The School of the Art Institute of Chicago.

**John J. Delaney**, *Assistant Professor of History*  
B.A., M.A., Boston College; Ph.D., University at Buffalo, SUNY/University at Buffalo

**S. Pascale Dewey**, *Associate Professor of French and Spanish*  
Licence és Lettres, Université de Limoges, France, M.A., Ph.D., Rice University

**Dennis J. Dietrich**, *Professor of Special Education*  
B.S., M.Ed., Edinboro University; Ph.D., University of Pittsburgh

**Mark K. Dinger**, *Associate Professor of Business Administration*  
B.S., Shippensburg University; M.B.A., Lehigh University

**Kathleen A. Dolgos**, *Assistant Professor of Secondary Education*  
B.S., M.Ed., Kutztown University; Ed.D., Lehigh University

**Percy H. Dougherty**, *Professor of Geography*  
B.S., M.Ed., West Chester University; Ph.D., Boston University

**Paula A. Duda**, *Assistant Professor of Political Science*  
B.A., King's College; M.P.A., Pennsylvania State University; Ph.D., State University of New York at Binghamton

**Patrick J. Duddy**, *Associate Professor of Biology*  
B.S., University of Notre Dame; M.S., Villanova University; M.A., Lehigh University; M.Ed., Kutztown University

**Edward J. Earley**, *Professor of Education*  
B.S., M.S., University of Scranton; M.S., Ed.D., State University of New York at Albany

**Kenneth N. Ehrensall**, *Associate Professor of Management*  
A.B., Fordham University; A.M., University of Pennsylvania; M.B.A., Pace University; M. Phil., City University of New York

**Joseph S. Elias**, *Assistant Professor of Secondary Education*  
B.S., Kutztown University; M.S., Temple University; Ed.D., Temple University

**John A. Erdmann**, *Registrar*  
A.B., Wagner College; M.A., New York University; Ed.D., Temple University

**Edward W. Evans**, *Professor of Mathematics*  
B.S., Kutztown University; M.Ed., Temple University; M.A., Ph.D., University of Michigan

**Philip R. Evans**, *Associate Professor, Accounting and General Business*  
B.A., King's College; J.D., University of Miami

**Daryl Fairchild**, *Associate Professor of Telecommunications*  
B.S., Eastern Michigan University; M.S., Southern Illinois University

**Allen C. Fanger**, *Professor of Anthropology*  
M.A. Ph.D., Syracuse University

**Andrew Felkay**, *Professor of Foreign Languages*  
B.A., Brooklyn College; M.A., City University of New York; Ph.D., Temple University

**Phillip Ferreira**, *Assistant Professor of Philosophy*  
Ph.D., University of Toronto; M.A., University of Nevada, Reno; B.A., Sierra Nevada College

**Ellen Finks**, *Assistant Professor of Music; Director of Cultural Affairs*  
B.A., Pennsylvania State University; M.M., Northwestern University

**Ruth D. Fisher**, *Professor of English*  
B.A., LaSalle University; M.A., Villanova University; Ph.D., Temple University; A.S., Peirce Junior College

**Sandra E. Fisher**, *Assistant Professor in Education*  
B.S., Kutztown University; M.Ed., Pennsylvania State University

**Ephraim Fithian**, *Professor of Mathematics*  
B.A., Glassboro State College; M.A.T., Ph.D., Indiana University

**Johanna Forte**, *Assistant Professor of Speech and Theatre*  
B.A. – Theatre, University of Michigan; M.F.A. – Theatre/Costume Design, Wayne State University

**Deborah A. Frantz**, *Professor of Mathematics*  
B.S., Saint Joseph's College, Indiana; M.S., Ph.D., Lehigh University

**Thomas R. Fries**, *Associate Professor of History*  
B.A., Albright College; M.S., Temple University

**Constance M. Fritch**, *Associate Professor of Education*  
A.B., Muhlenberg College; M.Ed., Lehigh University; M.A., Lehigh University

**Michael P. Gabriel**, *Assistant Professor of History*  
B.S. (Biology), Clarion University; M.A. (History), St. Bonaventure University; Ph.D., Penn State University

**Alvaro A. Garcia**, *Professor of Fine Arts (Sculpture)*  
M.F.A., Yale; B.F.A., University of the Arts PA

**J. Frederick Garman**, *Associate Professor of Health, Physical Education & Dance; Interim Associate Dean, College of Education*  
B.A. – Biology, Catawba College; M.S. – Physical Education, Pennsylvania State University; Ph.D. – Education (Exercise Physiology), University of Michigan

**Janice Gasker**, *Assistant Professor of Criminal Justice/Social Work*  
B.A. (Social Work), Cedar Crest College; M.A. (Social Work), Marywood University; Doctorate (Social Work), University of Pennsylvania

**Carol A. Gearhart**, *Assistant Professor of Library Science*  
B.S., Kutztown University; M.S.L.S., Syracuse University

**Glenna Gebhard**, *Associate Professor of Mathematics*  
B.S., Bloomsburg University; M.A., Columbia University; M.A., Villanova University

**J. R. George**, *Associate Professor of Sociology*  
B.S., General Beadle College; M.A., Kent State University

**J. Calvin Gerhard**, *Associate Professor of Mathematics and Computer Science*  
B.A., Pennsylvania State University; M.Ed., Kutztown University; M.A., Western Michigan University

**Elsa L. Geskus**, *Associate Professor of Elementary Education*  
B.A., Calvin College; M.A., Michigan State University; Ed.D., Western Michigan University

**Linda J. Gibbs**, *Professor of Elementary Education*  
B.S., East Stroudsburg University; M.Ed., Lehigh University; Ed.D., Lehigh University

**Margaret J. Gill**, *Assistant Professor of Psychology*  
A.B., Albright College; M.A., Temple University

**Jill I. Givler**, *Assistant Professor of Health, Physical Education and Dance*  
B.S., West Chester University; M.S., Montana State University; Ed.D., University of Massachusetts



**Gordon J. Goldberg**, *Professor of History*  
B.A., Lehigh University; M.A., University of  
Pennsylvania; Ph.D., Lehigh University

**Linda Goldberg**, *Provost's Office; Associate  
Professor of Nursing*  
Diploma, Pottstown Memorial Medical Center;  
B.S.Ed., West Chester University; M.A.,  
Kutztown University; MSN, Villanova University;  
Ed.D., Columbia University

**Henry G. Gordon**, *Professor of Computer Science*  
B.S., St. Joseph's University; M.A., Fordham  
University; Ph.D., Lehigh University

**Thomas J. Grant**, *Assistant Professor  
of Accounting*  
B.S., Villanova University; M.B.A., Drexel  
University; C.M.A., Certified Management  
Accountant

**Ina S. Grapenthin**, *Assistant Professor of Music*  
B.M., Ithaca College; M.M., University of  
Michigan; M.Ed., Columbia University

**Robert A. Gray**, *Professor of Audiovisual  
Communications and Technology*  
B.A., Lebanon Valley College; M.Ed., University  
of Virginia; Ed.D., University of Virginia

**Robert G. Gray**, *Associate Professor  
of Biological Science*  
B.S., M.S., Villanova University

**Russell E. Gross, Jr.**, *Assistant Professor  
of Developmental Studies*  
B.A., Moravian College; M.A., Kutztown  
University; Ph.D., New York University

**Ann T. Gundry**, *Professor of Health, Physical  
Education and Dance*  
B.A., Boston University; M.A., Ed. D., Columbia  
University; M.A., Kutztown University

**Keshav Gupta**, *Associate Professor of Finance*  
B.S., M.B.S., University of Allahabad;  
M.B.A., Ph.D., University of Pittsburgh

**James W. Hall**, *Professor of Philosophy*  
B.S., Bowling Green State University;  
M.A., Ph.D., The Johns Hopkins University

**Mary Theresa Hall**, *Assistant Professor  
of English*  
B.A. Seton Hill College; M.A., Carnegie Mellon  
University; Ph.D., Duquesne University

**Linda Halma**, *Associate Professor, Library*  
B.S., Ewha Women's University; M.S.L.S., S.U.N.Y.  
at Albany; M.S., Ed., Temple University

**John M. Hamrick**, *Associate Professor  
of Management, Chairperson*  
B.S.B.A., M.B.A., Lehigh University; J.D.,  
Temple University

**Jerome M. Hand**, *Associate Professor of  
English*  
B.A., Heidelberg College; M.A., Purdue  
University; Ph.D., Indiana University of  
Pennsylvania

**Raymond O. Heimbach**, *Associate Professor  
of Accounting and General Business*  
B.S., Pennsylvania State University;  
M.B.A., Temple University

**Beth M. Herbine**, *Associate Professor  
of Elementary Education*  
B.S.Ed., M.Ed., Kutztown University;  
Ed.D., Temple University

**Kirk C. Heriot**, *Associate Professor of  
Management*  
B.S., Clemson University; M.B.A., University of  
South Carolina; Ph.D. (Industrial Management),  
Clemson University

**Margaret A. Herrick**, *Associate Professor,  
Department of Counseling and Human Services;  
Pennsylvania Licensed Psychologist*  
B.A., University of Steubenville; M.R.C., Wright  
State University; Ph.D., Pennsylvania State  
University

**Theodore M. Hickman**, *Assistant Professor,  
Audiovisual Communications and Technology*  
B.S., Kutztown University; M.S., Drexel  
University; Certificate of Advanced Study,  
Drexel University

**Phil Hoeflich**, *Instructor of Speech & Theatre*  
B.A. (Political Science), Bloomsburg University  
of Pennsylvania; M.A. (Speech Communication),  
Bloomsburg University of Pennsylvania

**M. Kathryn Holland**, *Associate Professor,  
Library Science*  
B.A., The College of William and Mary;  
M.S.L.S., Ed.D., East Texas State University

**Guiyou Huang**, *Assistant Professor of English*  
B.A. in English, Qufu Teachers University; M.A.,  
in English, Peking University; Ph.D. in English,  
Texas A&M University

**Eugene R. Huber**, *Associate Professor  
of Speech and Theatre*  
B.A., Hofstra University; M.S., C.W. Post  
College; Ph.D., New York University

**Harry Humes**, *Assistant Professor of English*  
B.S., Bloomsburg University; M.F.A., University  
of North Carolina

**James M. Hvidding**, *Professor of Economics*  
B.A., Western Maryland College; M.A., Ph.D.,  
University of Maryland

**William Imschweiler**, *Instructor in Health and  
Physical Education*  
B.S., East Stroudsburg University

**Gerard Innocenti**, *Professor of History*  
A.B., King's College; M.A., Duquesne University;  
Ph.D., Bryn Mawr College

**Diane R. Jensen**, *Assistant Professor  
of Speech Communication*  
B.S., M.A., Northern Illinois University

**Larry D. Jensen**, *Assistant Professor  
of Management*  
B.A., Illinois Wesleyan University;  
M.B.A., Northern Illinois University

**Dennis E. Johnson**, *Associate Professor  
of Communication Design*  
B.F.A., Tyler School of Art (Temple University);  
M.Ed., Kutztown University; M.F.A., Syracuse  
University

**Diane Elizabeth Johnson**, *Assistant Professor  
of Anthropology/Sociology*  
B.A., Malone College; M.A., Bowling Green  
State University; M.A., Ph.D., University of  
Chicago

**Kimberly Johnston**, *Associate Professor  
of Nursing*  
B.S.N., M.S.N., Pennsylvania State University;  
Ed.D., Widener University

**William E. Jones, Jr.**, *Associate Professor  
of Mathematics*  
B.S., M.A., Lehigh University; M.A., Kansas  
University

**Stephen A. Justham**, *Professor of Geography*  
B.S. Indiana University of Pennsylvania;  
M.A., Indiana University of Pennsylvania;  
Ph.D., University of Illinois

**Margaret F. Kantner**, *Assistant Professor  
of Health, Physical Education and Dance*  
B.S., East Stroudsburg University; M.Ed.,  
Temple University

**Samuel E. Keiser**, *Professor of English*  
B.S., Bloomsburg University; M.A., State  
University of New York at Buffalo;  
Ph.D., Indiana University of Pennsylvania

**Leo Keller**, *Professor of Psychology*  
B.A., University of Denver; Ph.D., Indiana  
University

**Joan Kendall**, *Assistant Professor of Geography*  
B.A., Mercy College of Detroit; M.A., Ph.D., Michi-  
gan State University

**Judith E. Kennedy**, *Professor of English*  
B.A., Brooklyn College; M.A., New York  
University; Ph.D., New York University

**Kelley Kenney**, *Associate Professor/Counselor,  
Department of Counseling & Psychological  
Services*  
B.A., Mansfield University; M.Ed., Temple  
University; Ed. D., George Washington  
University

**Jane Kern**, *Assistant Professor of Mathematics and Computer Information Science*  
B.A., College of St. Rose; M.A., SUNY, Albany

**Milton E. Kern**, *Associate Professor of Speech and Theatre*  
B.S., California University; M.Ed., Pennsylvania State University

**Deepak Khanna**, *Associate Professor of Computer Science*  
B.S., Panjab University; M.B.A., Kurukshetra University; M.B.I.S., Georgia State University

**David P. Kintsfather**, *Professor of Telecommunications*  
A.B., College of William and Mary; M.A., Ph.D., University of Mississippi

**Michael Kirkland**, *Assistant Professor of Speech & Theatre*  
Ph.D., University of Utah; M.F.A., University of Southern Mississippi; B.A., California State University, Fullerton

**Andrea Kirshman**, *Associate Director, Career Services*  
B.S., York College of Pennsylvania;  
M.A., Indiana University of Pennsylvania

**Sally G. Knappenberger**, *Associate Professor of Education*  
B.A., Gettysburg College; M.Ed., Lehigh University

**Jonathan Kramer**, *Associate Professor of Finance, Accounting and General Business*  
B.S., Pennsylvania State University; M.B.A., Villanova University; Ph.D., Lehigh University

**Donald E. Kreps**, *Professor of Management*  
B.A., Duke University; M.B.A. George Mason University; D.B.A., The George Washington University

**Karen Kresge**, *Assistant Professor of Communication Design*  
B.F.A. (Communication Design), Kutztown University; M.F.A. (Visual Communications), Tyler School of Art at Temple University

**Harry Krizan**, *Professor of Fine Arts*  
B.F.A., Texas Tech University; M.F.A., University of California at Davis

**Beth A. Kroa**, *Assistant Professor of Physical Sciences*  
B.S., Bowling Green State University; Ph.D., The University of Toledo

**Janice J. Kulp**, *Professor of Education*  
B.S., Bloomsburg University; M.S., Ed.D., Temple University

**Kanchan Kumar**, *Assistant Professor of Mathematics and Computer Information Science*  
B.S., Allahabad University; M.S., University of New Brunswick; M.S., Lehigh University

**Anna Kuo**, *Professor of Fine Art*  
B.F.A., Daemen College; M.F.A., State University of New York at Buffalo; Columbia University

**Lisa K. Ladd-Kidder**, *Associate Professor, Director of Academic Advisement*  
B.A., University of South Florida;  
M.Ed., University of Georgia; M.S., Hahnemann Medical College

**Paul C. Laincz**, *Associate Professor of Art*  
B.S., Boston College; B.S., Massachusetts College of Art; M.S., Syracuse University

**John K. Landis**, *Associate Professor of Communication Design*  
B.A., M.A., University of Delaware

**David Laubach**, *Associate Professor of English*  
B.S., M.Ed., Bloomsburg University;  
Ed.D., University of Massachusetts

**Phillip Lee Leighton**, *Associate Professor of Psychology*  
B.S., Millersville University; M.A., Temple University

**Martin Lemelman**, *Professor of Communication Design*  
B.A., Brooklyn College; M.F.A., Brooklyn College

**Christina M. Lemieux**, *Professor of Anthropology*  
B.A., Pennsylvania State University;  
M.A., Ph.D., University of Pennsylvania

**A. F. Leonzi**, *Associate Professor of Education*  
B.A., M.Ed., Pennsylvania State University

**Linda A. Lessig**, *Associate Professor, Library*  
B.S., Kutztown University; M.S.I.S., Drexel University; Certificate of Advanced Study, Drexel University

**Elizabeth K. Liddicoat**, *Professor of Education*  
B.S., West Chester University; M.Ed., Ed.D., Lehigh University

**Susanne Lipp**, *Assistant Professor of Foreign Language*  
B.A., Boston University; M.A., Cornell University

**Joe Lippincott**, *Associate Professor, Director of Intern Training*  
*Department of Counseling Services*  
B.S., Seton Hall; M.S., Rutgers University;  
Ph.D., Lehigh University

**John P. Lizza**, *Assistant Professor of Philosophy*  
B.A., M.A., M. Phil., Ph.D., Columbia University

**John M. Loomis**, *Associate Professor of Physical Science*  
B.S., Indiana University; M.S., University of Massachusetts; M.S., Lehigh University

**Christine R. Lottes**, *Associate Professor of Health, Physical Education and Dance*  
B.S., Valparaiso University; M.S., West Chester University; Ed.D. – Sport Behavior (Psychology and Sociology), West Virginia University

**James C. Luizer**, *Associate Professor of Economics*  
B.S., M.A., Ph.D., Lehigh University

**Virginia Luizer**, *Assistant Professor of Business Administration*  
B.A., Moravian College; M.B.A., Lehigh University

**Debra K. Lynch**, *Associate Professor of Special Education*  
B.S., M.A., University of Missouri;  
Ph.D., University of Virginia

**Gregory MacGill**, *Instructor of Music*

**James Malenda**, *Professor of Art Education and Crafts*  
B.F.A., Kent State University; M.F.A., SUNY, New Paltz

**Carol C. Mapes**, *Associate Professor of Biology*  
B.A., Williams College; Ph.D., Cornell University

**H. Albert Margolis**, *Professor of Economics*  
B.A., University of North Carolina; M.A., Ph.D., Purdue University

**Kevin McCloskey**, *Associate Professor of Communication Design*  
B.A., Edison State College; M.F.A., School of Visual Arts, N.Y., N.Y.

**Allida Shuman McKinley**, *Professor of History*  
A.B., Wilson College; M.A., Ph.D., Bryn Mawr College

**James I. McNelis, III**, *Assistant Professor of English*  
B.A., U.C. Santa Cruz; M.A., Ph.D., University of Washington, Seattle

**James F. McNiff**, *Assistant Professor of Speech and Theatre*  
B.A., University of Rhode Island; M.A., Northern Illinois University  
**Charles E. Marple**, *Professor of Education*  
B.S., Muhlenberg College; M.Ed., Ed.D., Lehigh University

**Robert N. Martin**, *Professor of Geography*  
B.A., M.A., Ph.D., Indiana University

**Anthony A. Matz**, *Associate Professor of Mathematics*  
B.S., Moravian College; M.A.T., Harvard University; M.S., Ohio State University

**Cherry C. Mauk**, *Professor of Mathematics and Computer Information Science*  
B.A., Ph.D., The University of Texas at Austin;  
M.S., University of Houston

**Rudolph C. Mayrhofer**, *Assistant Professor of Physical Science*

B.S. (Chemistry), Bucknell University;  
Ph.D., University of Wisconsin – Madison

**Anita M. Meehan**, *Professor of Psychology*  
B.A., Wilkes College; M.A., Ph.D., Temple University

**Donald Mellinger**, *Associate Professor of Biology*  
B.S., Eastern Mennonite College;  
M.Ed., Pennsylvania State University;  
Ph.D., Michigan State College

**John C. Metcalf**, *Associate Professor of Music*  
B.A., Jacksonville State University;  
M.M. Composition, M.M. Performance,  
D.M.A., Louisiana State University

**John C. Meyer, Jr.**, *Professor of Criminal Justice*  
B.A., State University of New York at Stony Brook; M.A., Ph.D., State University of New York at Albany

**Susan Moon Meyer**, *Professor of Speech-Language Pathology*  
B.S., M.S., Pennsylvania State University;  
Ph.D., Temple University

**Peter R. Miller**, *Associate Professor of Anthropology*  
B.A., M.A., Syracuse University

**Susan Miller**, *Professor of Education*  
B.S., M.A., Syracuse University; Ed.D. Nova University

**Alicia L. Montoya**, *Associate Professor of Education*  
B.A., Eastern New Mexico University;  
M.A., Ed.D., New Mexico State University

**Vivian Mosca**, *Professor of Mathematics and Computer Information Science*  
B.S., University of Minnesota; M.A., Ph.D., University of Vermont

**Larry R. Mugridge**, *Professor of Mathematics*  
B.A., Wartburg College; M.A., Ph.D., Lehigh University

**George K. Muugi**, *Associate Professor of Psychology*  
B.A., York University; M.A., M. Phil., Ph.D., Columbia University

**James W. Nechas**, *Assistant Professor of English*  
B.A., Bowling Green State University;  
M.A., Ph.D., University of Pennsylvania

**Matthew Nesvisky**, *Assistant Professor of English*  
B.A., M.Ed., M.A., University of Pittsburgh;  
D.A., Carnegie-Mellon University

**Leslie D. Netting**, *Professor of Health, Physical Education and Dance*  
B.A., Boston College; M.A., Adelphi University;  
Ed.D., New York University

**Arnold E. Newman**, *Professor of English*  
B.A., M.A., State University of New York at Albany; Ph.D., University of Wisconsin

**T. Kelley Neyhart**, *Associate Professor of Elementary Education*  
B.S., West Chester University; M.S., Temple University

**Edwin E. Nieves**, *Associate Professor, Department of Developmental Studies*  
B.A., Moravian College; M.S.W., Rutgers University

**August J. Nigro**, *Professor of English*  
B.A., Fairleigh Dickinson University;  
M.A., University of Miami; Ph.D., University of Maryland

**Lisa A. Norris (Traugott)**, *Fine Arts*  
B.A., Colgate University; M.A., Brown University;  
Ph.D., Brown University

**Edward O'Brien**, *Associate Professor of Fine Arts*  
B.F.A., Philadelphia College of Art;  
M.F.A., Tyler School of Art, Temple University

**James R. Ogden**, *Chairperson, Marketing Department, Professor of Marketing*  
B.B.E., Eastern Michigan University;  
M.S., Colorado State University;  
Ph.D., University of Northern Colorado

**Mary Patricia Ogletree**, *Professor of Music*  
B.Mus., University of Michigan; M.Mus., University of Kentucky; D.M.A., University of Kentucky

**Dubem Okafor**, *Assistant Professor of English*  
B.A., (Hons) University of Nigeria; M.A., University of Sussex (U.K.); Ph.D., University of Minnesota

**Kyu Sam Park**, *Professor of Mathematics*  
B.S., Seoul National University; M.S., University of Oregon; Ph.D., Lehigh University

**Robert A. Partel**, *Professor of Political Science*  
B.S., East Stroudsburg University; M.A., Lehigh University; J.D., Temple University School of Law

**Michael G. Paulson**, *Professor of Foreign Languages*  
B.S., Kutztown University; M.A., Florida State University; Ph.D., Florida State University

**Morris K. Perinchief**, *Associate Professor of Fine Arts*  
B.A., University of Delaware; M.A., University of Chicago; Ph.D., University of Wisconsin

**David R. Peterson**, *Professor of Audiovisual Communications and Technology*  
B.S., Kent State University; M.Ed., East Texas State University; Ed.D., East Texas State University

**Thomas L. Pirnot**, *Professor of Mathematics and Computer Science*  
B.A., Wilkes College; Ph.D., Pennsylvania State University

**Alexander W. Pisciotta**, *Professor of Criminal Justice*  
B.A., University of Maryland; M.A., Rutgers University; Ph.D., Florida State University

**Joseph Piscitelli**, *Professor of Biology*  
A.B., M.S., Ph.D., The Catholic University of America

**Nevin L. Posey**, *Associate Professor of Health, Physical Education and Dance*  
B.S., East Stroudsburg University;  
M.Ed., West Chester University

**Lisa Potylycki**, *Assistant Professor*  
B.S., Kutztown University; M.A., Penn State University; Ed.D., Lehigh University

**Ilene Prokup**, *Associate Professor of Nursing*  
B.S., Skidmore College; M.S., Boston University

**G. Dennis Rains**, *Professor of Psychology*  
B.A., St. John's College; M.A., New School for Social Research; Ph.D., Cornell University

**Willis M. Rapp**, *Associate Professor of Music*  
B.S., M.M., West Chester University; Dip. FA, University of Calgary

**Bette Adams Reagan**, *Professor of English*  
B.A., M.A., and Ph.D., Texas Woman's University

**Elaine Walls Reed**, *Assistant Professor of English*  
B.A., Indiana University of Pennsylvania;  
M.A., Kutztown University

**Earl Y. Reeves**, *Professor of Sociology*  
A.B., Eastern College; A.M., Ph.D., University of Pennsylvania; B.D., Eastern Baptist Theological Seminary

**Mildred A. Reilley**, *Assistant Professor*  
A.A.S., Auburn Community College; B.S., State University of New York at Cortland; M.L.S., Kutztown University; Certificate of Advanced Study, Drexel University

**Robert E. Reinecke**, *Associate Professor of Speech and Theatre*  
B.A., Hunter College; M.A., University of Iowa

**Marc W. Renzema**, *Professor of Criminal Justice*  
B.A., Johns Hopkins University; M.A. Temple University; M.A., Ph.D., State University of New York at Albany

**Ronald R. Rhein**, *Professor of Biology*  
B.S., Kutztown University; M.S., Pennsylvania  
State University; D.Ed., Lehigh University

**Patricia J. Richter**, *Coordinator of Learning  
Assistance Services*  
B.A., M.A., New York University

**Oskars Rieksts**, *Professor of Mathematics and  
Computer Science*  
B.A., Eastern College; M.A., Indiana University;  
M.S., Virginia Commonwealth University;  
Ph.D., University of Delaware

**Jesús Rodríguez**, *Assistant Professor  
of Foreign Languages*  
Ph.D. (Spanish Literature), University of  
Pennsylvania

**David Rogers**, *Assistant Professor  
of Art Education and Crafts*  
B.F.A., M.F.A., Virginia Commonwealth  
University

**Elizabeth Goltz Rogol**, *Assistant Professor  
of Marketing*  
B.S.B.A., Shippensburg State College;  
M.B.A., Shippensburg University

**James A. Rose, Jr.**, *Assistant Professor  
of Fine Arts*  
B.F.A., Virginia Commonwealth University;  
M.F.A., Temple University

**David B. Ross**, *Associate Professor  
of Special Education*  
B.S.Ed., East Central State College, Ada,  
Oklahoma; Ed.D., M.Ed., Texas Tech University,  
Lubbock, Texas

**Charles F. Roth, Jr.**, *Professor of Audiovisual  
Communications and Technology*  
B.S., Education, Kutztown University;  
M.Ed., West Chester University;  
Ph.D., Southern Illinois University/Carbondale

**Bruce F. Rowell**, *Professor of Physical Science*  
A.B., Colgate University; M.S., Ph.D., University  
of Nebraska

**Elizabeth Ruccius**, *Assistant Professor  
of Music*  
B.S., West Chester University; M.Mus.Ed.,  
D.M.A., Temple University

**Timothy C. Running**, *Professor of Music*  
B.M., Concordia College; M.M., The Catholic  
University of America; D.A., University of  
Northern Colorado

**Wendy L. Ryan**, *Associate Professor of Biology*  
B.S., Michigan State University;  
M.S., Ph.D., Scripps Institution of  
Oceanography

**Trucilla M. Sabatino**, *Assistant Professor  
of Music*  
Bachelor of Arts, Master of Fine Arts, Penn  
State University; Doctor of Musical Arts, Ohio  
State University

**Renard M. Sacco**, *Assistant Professor,  
Coordinator of Sports Medicine*  
B.S., West Chester University; M.Ed., East  
Stroudsburg University

**Loline J. Saras**, *Associate Professor  
of Special Education*  
B.S., M.S., Bloomsburg University; D.Ed., The  
Pennsylvania State University

**Angela M. Scanzello**, *Professor of English*  
B.A., University of Delaware; M.A., Kutztown  
University; Ph.D., University of Pennsylvania

**Randy S. Schaeffer**, *Associate Professor of  
Mathematics and Computer Information  
Science*  
B.S., Kutztown University; M.S., Lehigh  
University

**Thomas F. Schantz**, *Professor of Art Education  
and Crafts*  
B.S., Kutztown University; M.S., Ph.D., Pennsyl-  
vania State University

**Edwin Schatkowski**, *Professor of Music*  
B.S., West Chester University; M.Ed., D.Ed.,  
Pennsylvania State University

**John P. Schellenberg**, *Professor  
of Physical Science*  
B.S., King's College; M.Ed., Temple University;  
M.A.T., Duke University; D.Ed., Pennsylvania  
State University

**Barbara Schulman**, *Associate Professor, Art  
Education and Crafts*  
B.S., M.F.A., Kent State University

**Janette M. Schumacher**, *Residence Coordinator,  
Housing and Residence Life*  
B.A. (Psychology), Kutztown University; M.Ed.  
(Student Affairs in Higher Education), Kutztown  
University

**Louis Schwartz**, *Associate Professor of English*  
B.A., New York University; M.A., Ph.D., State  
University of New York at Buffalo

**John D. Scott**, *Associate Professor  
of Physical Science-Geology*  
B.S., Drexel University

**Thomas A. Seay**, *Professor, Department of  
Counseling and Human Services*  
B.S., M.A., Austin Peay State University;  
Ph.D., Southern Illinois University

**Karin Sergel**, *Assistant Professor,  
Speech & Theatre*  
B.A., West Chester University; M.A., Temple  
University

**Judith Shea**, *Assistant Professor of Biology*  
B.A., B.S.Ed., M.S., University of Cincinnati

**Neil Shea**, *Professor, Physical Science*  
B.S., Worcester Polytechnic Institute;  
M.S., Ph.D., Rensselaer Polytechnic Institute

**Nina Shekter**, *Associate Professor  
of Spanish, Chairperson, Department of Foreign  
Languages*  
B.A., Ursinus College; M.A., Bryn Mawr  
College; Ph.D., Temple University

**Deborah A. Sieger**, *Professor of Social Work*  
R.N., Lankenau Hospital; B.S., West Chester  
University; MSW, Temple University;  
Ph.D., The Union Institute

**Norman C. Sigmond**, *Assistant Professor  
of Accounting and General Business*  
M.B.A., LaSalle University; B.S., Philadelphia  
College of Textiles and Sciences, CPA

**M. Janet Simone**, *Professor, Reference Library*  
B.S., Clarion University; M.L.I.S., Ph.D.,  
University of Pittsburgh

**Edward L. Simpson**, *Professor of  
Physical Science*  
B.S., Kutztown University; M.S., University of  
Nebraska; Ph.D., Virginia Polytechnic Institute  
and State University

**Andrew Skitko, Jr.**, *Assistant Professor  
of Telecommunications*  
B.S., M.S., Telecommunications, Kutztown  
University

**Judith L. Smith**, *Associate Professor, Health,  
Physical Education and Dance*  
B.S., Ithaca College; M.A., University of  
Maryland

**Robert L. Smith**, *Assistant Professor  
of Speech and Theatre*  
B.A., Rutgers University; B.S., Emerson College;  
M.A., University of Washington; M.F.A., Tisch  
School of the Arts, New York University

**George Sorrels**, *Professor of Fine Arts*  
B.F.A., University of Texas at Austin;  
M.F.A., Cranbrook Academy of Art

**James Sowerwine**, *Assistant Professor  
of History*  
Ph.D., University of Wisconsin-Madison;  
M.A., American University; B.A., Carroll College

**Robert H. Spang**, *Associate Professor  
of Education*  
B.S., Kutztown University; M.S., Syracuse  
University

**JoAnn N. Spencer**, *Professor of Education*  
B.S., Cheyney University; M.S., Lehigh  
University; Ed.D., Lehigh University

**Anita T. Sprankle**, *Associate Professor, Library*  
B.A., Pennsylvania State University;  
M.S.L.S., Drexel University; Certificate of  
Advanced Study, Drexel University

**Lynn R. Sprankle**, *Associate Professor  
of Geography*  
B.S., M.S., Pennsylvania State University

**Abdulwahab Sraiheen**, *Associate Professor  
of Economics*  
B.S., University of Jordan; M.S., The George  
Washington University; Ph.D., The Pennsylv-  
ania State University

**Theresa M. Stahler**, *Assistant Professor  
of Secondary Education*  
B.S., Indiana University of Pennsylvania;  
M.Ed., University of Pittsburgh; Ph.D., The Ohio  
State University

**John M. Steber**, *Assistant Professor  
of Speech and Theatre*  
B.A., St. Vincent College; M.S., Pittsburgh State  
University; Ph.D., Pennsylvania State University

**Stephanie A. Steely**, *Technical Services  
Librarian*  
B.A., Kutztown State College; M.A., Duquesne  
University; M.S., Drexel University

**Nancy Stevens**, *Assistant Professor  
of Elementary Education*  
B.A. (Music), Gettysburg College;  
M.A. (Education Administration), Villanova  
University; Ed.D. (Education Leadership),  
Widener University

**Marilyn Stewart**, *Professor of Art Education  
and Crafts*  
B.A.E., Ohio State University; M.A., Ohio State  
University; Ph.D., Ohio State University

**Ronald W. Stoffey**, *Professor of Psychology*  
B.A., Kutztown University; M.S., Ph.D., Stevens  
Institute of Technology; Licensed Psychologist  
in Pennsylvania

**Dennis O. Strasser**, *Assistant Professor  
of Education*  
B.S., Kutztown University; M.Ed., Lehigh  
University

**Evan Summer**, *Professor of Fine Arts*  
B.S., SUNY College at Cortland; B.F.A., SUNY at  
Buffalo; M.F.A., Yale University School of Art

**Gabriele B. Sweidel**, *Professor of Psychology*  
B.A., Rosemont College; M.S., Ph.D., University  
of Pennsylvania

**Mary Ellen Swoyer**, *Associate Professor  
of Elementary Education*  
B.S., M.Ed., Kutztown University; Ed.D., Temple  
University

**Dan R. Talley**, *Assistant Professor of Fine Arts*  
B.F.A., Atlanta College of Art; M.F.A., University  
of Hartford

**David M. Tavakoli**, *Associate Professor  
of Sociology*  
B.A., University of Teheran; M.A., Roosevelt  
University; Ph.D., University of Minnesota

**Carol J. Teske**, *Associate Professor of Health,  
Physical Education and Dance*  
B.S., Ursinus College; M.Ed., West Chester  
University; D.Ed., Temple University

**Mary E. Theis**, *Assistant Professor  
of Foreign Languages*  
B.A., University of Iowa; A.M., Ph.D., University  
of Illinois

**Heather Thomas**, *Assistant Professor of English*  
B.A., University of Pennsylvania; M.A., Temple  
University

**Joseph C. Thomas**, *Professor of Mathematics  
and Computer Information Science*  
B.S., Shippensburg University; M.A., Pennsyl-  
vania State University; Ph.D., Kent State  
University; M.S., Pennsylvania State University

**Karen R. Thomas**, *Counselor, Student Support  
Services of Developmental Studies*  
A.B., Gettysburg College; M.A., University of  
Connecticut; M.A., Kutztown University

**Dale N. Titus**, *Associate Professor  
of Secondary Education*  
B.S., United States Naval Academy;  
M.A., Ed.D., Lehigh University

**William F. Towne**, *Professor of Biology*  
B.S., Moravian College; M.A., Ph.D., Princeton  
University

**Charles Trafford**, *Associate Professor  
of Mathematics*  
B.S., Kutztown University; M.Ed., Temple  
University; M.A., Bowling Green State  
University

**Peter W. Traugott**, *Professor of Fine Arts*  
B.F.A., M.F.A., Bradley University

**Jack M. Treadway**, *Professor  
of Political Science*  
B.S., University of Wisconsin-Whitewater;  
M.A., Arizona State University; Ph.D., University  
of Kansas

**Laree M. Trollinger**, *Professor of Music*  
B.M., Concordia College; M.M., Northwestern  
University; D.M.A., Temple University

**Raymond Tumbleson**, *Assistant Professor  
of English*  
A.B., Harvard University; M.A., Boston  
University; Ph.D., University of Washington

**Reno C. Unger**, *Assistant Professor  
of Speech and Theatre*  
A.B., M.A., Marshall University

**John Vafeas**, *Associate Professor  
of Social Welfare*  
B.A., Winthrop College; M.S.W., D.S.W.,  
University of Pennsylvania

**David L. Valuska**, *Professor of History*  
B.A., Drew University; M.A., Louisiana State  
University; Ph.D., Lehigh University

**Madan M. Varma**, *Professor of Physical  
Science*  
B.S., M.S., Osmania University, India; A.M.,  
Ph.D., Indiana University

**Francis Vasko**, *Professor of Mathematics and  
Computer Information Science*  
B.S., Kutztown; M.S., M.S., Ph.D., Lehigh  
University

**Sandra J. Vidler**, *Professor of Counseling  
and Human Services*  
B.A., University of Colorado; M.A., West  
Virginia College of Graduate Studies; Ed.D.,  
Virginia Polytechnic Institute and State  
University

**Edward W. Vitz**, *Professor of Physical Science*  
B.S., St. Lawrence University; M.A. –  
Philosophy of Science, Michigan State  
University; Ph.D., Inorganic Chemistry,  
Michigan State University

**Robert M. Voytas**, *Professor of Psychology*  
B.S., M.B.A., University of Pittsburgh;  
Ph.D., University of Maryland

**David D. Wagaman**, *Associate Professor  
of Accounting*  
B.S., Kutztown University; M.S., Drexel  
University, C.P.A.

**Margaret Waibel**, *Associate Professor  
of Art Education and Crafts*  
B.F.A., Syracuse University; M.S., Pratt  
Institute

**Bruce Warner**, *Assistant Professor  
of Psychology*  
B.A., Missouri Southern State College;  
M.A., Ph.D., University of Kansas

**David Webb**, *Associate Professor  
of Anthropology*  
B.A., Cornell University; M.A., Ph.D., University  
of Chicago

**James Weiss**, *Instructor of Art Education  
and Crafts*  
B.A., Washington and Jefferson College; M.A.,  
Williams College; M.A., Yale University

**Ronald L. Werley**, *Associate Professor,  
Accounting & General Business*  
B.A., Muhlenberg College; M.A., Johns Hopkins  
University; M.S., Northeastern University;  
C.P.A.

**Samuel D. Westmoreland**, *Associate Professor of Sociology*  
B.S., M.Ed., Kutztown University; M.A., Lehigh University

**Roger S. Whitcomb**, *Professor of Political Science*  
B.A., Gettysburg College; M.A., Ph.D., American University

**John Howell White**, *Associate Professor of Art Education*  
B.A., Fine Arts, University of Colorado; M.F.A., Pratt Institute; Ph.D., The Pennsylvania State University

**Cheryl Wilf**, *Associate Professor of Political Science*  
B.A., University of Maryland; M.P.A., Ph.D., Temple University

**Dennis Williams**, *Assistant Professor of Music*  
B.M. E., Indiana University, M.C.M., Southern Baptist Theological Seminary; D.M.A., Southern Baptist Theological Seminary

**E. James Windle**, *Associate Professor of Marketing*  
B.A., Gettysburg College; M.B.A., Marshall University

**Brian Wlazelek**, *Professor, Counseling and Psychological Services; Director, University Counseling Services*  
B.A., Temple University, M.Ed., Temple University, Ph.D., Lehigh University

**Thomas A. Wolfe**, *Assistant Professor of Psychology*  
A.B., Albright College; M.A., Temple University

**William C. Worrell**, *Professor, Chairman of Psychology*  
B.A., Florida State University; M.A., West Virginia University; Ph.D., Kent State University

**Charles W. Yarrison**, *Professor of Education, Biology Department*  
B.S., Lock Haven University; M.Ed., Pennsylvania State University; D.Ed., Lehigh University

**Barth K. Yeboah**, *Associate Professor of Social Work*  
B.S.W., Jamia Millia Islamia; M.S.W., University of Delhi School of Social Work; D.S.W., University of Pennsylvania

**Anne E. K. Zayaitz**, *Assistant Professor of Biology*  
B.A., Duke University; M.S., Ph.D., Cornell University

**Girma Zelleke**, *Associate Professor of Economics*  
B.A., Addis Ababa University, Ethiopia; M.A., Vanderbilt University; M.A., Ph.D., University of Colorado, Boulder

**Robert C. Ziegenfus**, *Professor of Geography*  
B.S., Kutztown University; M.S., Pennsylvania State University; Ph.D., Rutgers University

**Maximiliano E. Zuniga**, *Associate Professor of Foreign Languages*  
B.S., Clarion University; M.A., West Virginia University; Ph.D., The Pennsylvania State University

## EMERITI

**William Agocs**, B.S., M.S., Ph.D.,  
Physical Science  
**Nunzio Alagia**, B.F.A., M.A., Communication Design

**Lee H. Alley**, Dean, Student Services,  
B.S., M. Ed., Ed.D.

**Clarence E. Arnold**, B.A., A.M., Foreign Language

**Charles L. Badders**, B.S., M.Ed., Kutztown University

**J. Wesley Bahorik**, B.A., M.Ed., Ph.D., Science  
**George H. Baldwin**, B.S., M.A., Health, Physical Education and Dance, Football Coach

**Aceste J. M. Barbera**, B.S., M.M., Music  
**Marguerite A. Bartholomew**, A.B., M.A., English  
**Walter R. Bleckmann**, B.S., M. Litt., Ph.D., Art  
**Catherine P. Blynn**, B.S., M.Ed., D.Ed., Education  
**Jacqueline L. Boggs**, A.B., M.F.A.,  
Art Education and Crafts

**Ruth Eleanor Bonner**, A.B., M.A., English-Speech

**Billie W. Boothe**, A.B., M.A., Ph.D., English

**Don Brady**, B.E.E., M.A., Ph.D., English

**Donald E. Breter**, B.S., M.Ed., Art

**Pearl Briere**, B.A., M.S., Ph.D., Developmental Studies

**Diane Brubaker**, B.S., M.Ed., M.Ed., Education

**Robert B. Brumbaugh**, B.A., M.Ed., Ed.D.,  
Education

**Robert J. Buckalew**, B.S., M.Ed., Ed.D.,  
Special Education

**Joseph Budgy**, B.S., M.Ed., Ed.D., Education

**George C. Burwell, Jr.**, B.S., M.Ed., Education,  
Director of Career Planning and Placement

**Dionisio Castiel**, D.Law, A.B., M.S.,  
Foreign Languages

**James L. Collier**, B.A., M.A., History

**William Collier**, B.A., M.A., Ph.D., Economics

**William B. Conner**, B.S., M.S., Geography

**Kenneth Cook**, B.S., Ed.M., Ed.D., Psychology

**Adriana Cortes-Hwang**, B.H., B.A., M.A.,  
Foreign Languages

**Ruth Brightbill deFrancesco**, B.S., M.A.,  
Art Education

**Laurence F. Dempsey**, B.S., Ph.D., Chemistry

**Constance P. Dent**, B.A., M.A., Ph.D.,  
Psychology and Counselor Education

**Robert Dornish**, B.S., M.A. Ed.D., Education

**John Dreibelbis**, B.S., M.A., Art Education  
and Crafts

**Dodson Dreisbach**, B.S., M.A., Ed.D.,  
Vice President for Academic Affairs

**Frances T. Dreisbach**, B.A., M.S.S., Social  
Sciences

**Paul Drumm**, B.S., M.Ed., D.Ed., Dean of  
Graduate Studies

**Henriette Engelson**, B.F.A., M.A., Speech  
Pathology

**Robert F. Ensminger**, B.S., M.A., Geography

**Harry D. Eshleman**, B.A., A.M., English

**Anthony J. Evangelista**, B.S., Kutztown  
University; M.Ed., Pennsylvania State  
University

**Robert P. Fina**, B.S., M.Ed., D.Ed.,  
Telecommunications

**Raymond Ford**, A.B., M.A., Ph.D., English

**Richard D. Fortune**, B.A., M.A., M.A., Ph.D.,  
Foreign Languages

**Earnest Foust**, B.S., M.A., English

**John L. Frederick**, A.B., A.M., Foreign  
Languages

**A. Leonard Friedman**, B.A., M.S.W., Sociology  
and Social Welfare

**Berne H. Friedman**, B.A., M.A., Ph.D.,  
Economics

**Douglas W. Fries**, B.S., M.A., Education

**Dragomir Gajic**, Ph.D., Foreign Languages

**Joseph J. Gallo**, B.S., B.A., M.A.T.S.,  
Foreign Languages

**Peggy L. Garrett**, A.B., M.A., Ph.D., English

**Philip L. Garrett**, A.B., M.A., Ph.D., Education

**Girard P. Gaughan**, B.S., Ed.M., Ed.D., Dean  
of Administration

**Claire Gilles**, B.A., M.S., Ph.D., Education

**Robert B. Gledhill**, B.S., M.A., Director of  
Financial Aid

**Richard R. Grabowski**, B.S., M.Ed., Ph.D.,  
Speech Pathology/Audiology

**Leo R. Grant**, A.B., M.A., Education

**Lee A. Graver**, B.S., A.M., Ed.D., History and  
Political Science

**John G. Grossman**, B.S., M.A., D.Ed.,  
Art Education & Crafts

**Samuel Gundy**, B.S., M.S., Biology

**Venu G. Gupta**, B.A., M.A., M.Ed., B.Ed., Ph.D.,  
Psychology

**Lorraine E. R. Harvilla**, B.S., M.Ed., D.Ed.,  
Education

**Stanley C. Harwick**, B.S., M.Ed., Education

**Harry E. Herring**, B.S., M.A., Education

**James K. Hershberger**, B.A., M.Ed., Ed.D.,  
Counselor Education

**Irvin T. Hess**, B.S., M.S., Athletics Director

**Lee L. Hill**, B.S., M.Ed., Health, Physical  
Education and Dance

**Daniel J. Hinkel**, B.S., M.S., Education

**Irving Hollingshead, Jr.**, B.S., M.Ed., M.A., Ed.D.,  
Mathematics

**Maurita F. Jaycox**, B.S., M.S., Education

**Theodore W. Jentsch**, A.B., M.Div., M.A., D.Phil.,  
Sociology

**James E. Johnson**, A.B., M.Ed., Assistant Dean  
of Academic Services

**Harding Jones**, B.A., M.A., Geography

**Russell F. Kaiser**, A.B., M.S., Ph.D., Geology

**William F. Kanasky**, B.S., M.S., M.S.L.S.,  
Library Science

**Eldon L. Katter**, B.A., M.A., Ph.D., Art Education

**Fredrick E. Keller**, B.S., M.F.A., Fine Arts

**James J. Kelly**, B.S., M.A., Art

**Paul Kendall**, B.S., M.A., Geography

**Elsie L. Kennet**, B.A., M.Ed., M.S., Library

**Evan J. Kern**, B.S., M.A., Ph.D., Dean, Visual  
and Performing Arts

**Ralph W. Kieffer**, A.B., A.M., M.A.,  
 Foreign Languages  
**Robert W. Kinderman**, B.S., M.S.Ed., Ed.D.,  
 Education  
**William J. Klucarits**, B.A., M.A., Political  
 Science  
**Leonard I. Kulseth**, B.S., M.A., English  
**Harry Lasky**, B.S., M.Ed., Education  
**Donald Lauer**, A.B., M.A., Ph.D., Psychology  
**William Laurita**, A.B., Ph.D., Chemistry  
**Richard A. Law**, B.S., M.A., Ph.D., English  
**Norwood P. Lawfer**, B.S., M.A., Ed.D.,  
 Science Education  
**Jack Lindeman**, B.S., English  
**Raymond E. Lucas**, B.A., M.A., Ph.D., Philosophy  
**Betty MacAdam**, B.S., M.Ed., Health, Physical  
 Education and Dance  
**Ranald R. MacAdam**, B.S., M.A., Education  
**Sara R. Mack**, B.S., M.S.L.S., Associate  
 Professor of Library Science  
**Philip Malpas**, B. Mus., M. Mus., Music  
**Jacob Mandel**, B.S., M.A., Ph.D., Psychology  
**William H. Marsh**, A.B., M.A., Ph.D., Speech  
 and Theatre  
**Mildred G. Mateer**, Reference Librarian  
**Earl L. Mayberry**, B.S., M.S., Music  
**E. Annette Mazzaferri**, B.S., M.A., Ph.D.,  
 Speech and Theatre  
**James C. McIntyre**, B.S., M.Ed., Health,  
 Physical Education and Dance  
**Gilbert D. McKlveen**, B.A., M.Ed., D.Ed.,  
 Education  
**Edith Mellner**, B.S., M.Ed., Health and Physical  
 Education  
**Nerine M. Middleswarth**, B.S., M.Ed., Education  
**Darwin W. Miller**, B.S., M.A., D.Ed., Education  
**Richard K. Miller**, M.A., A.M., Ph.D., Foreign  
 Languages  
**Harding Monroe**, B.S., M.Ed., Geography  
**Dorothy C. Moyer**, B.S., M.Ed., Ed.D., Education  
**G. Joseph Musso**, B.S., M.A., Director of  
 Student Activities  
**Frank P. Muzopappa**, B.S., M.S., Ph.D., Biology  
**Elizabeth M. Newton**, A.B., A.M., Foreign  
 Languages  
**Patricia A. Ori**, B.S., M.A., Health, Physical  
 Education and Dance  
**Mildred E. Oswald**, B.S., Circulation Librarian  
**Samuel H. Ottinger**, B.S., M.A., M.S.,  
 Mathematics  
**Antonio A. Pedroso**, B.S., D.C.L., Ph.D.,  
 Foreign Languages  
**James B. Peters**, B.A., M.A., Education  
**Edward J. Polder**, A.B., M.A., Ph.D., Psychology  
**Thomas C. Quirk, Jr.**, B.S., M.Ed.,  
 Communication Design  
**Earl Reeves**, A.B., A.M., Ph.D., B.D., Sociology  
**Betty J. Reisner**, R.N., B.S., M.S., Ed.D., Nursing  
**Emma A. Richards (Bausch)**, A.B., M.A., Ph.D.,  
 English  
**R. Jane Richards**, B.S., M.Ed., Education  
**Patricia J. Richter**, B.A., M.A.,  
 Developmental Studies  
**Nancy T. Risser**, Ph.D., Elementary Education  
**Henry M. Ryan**, B.S., M.Ed., D.Ed., Dean of  
 College of Education  
**Mary Mobley St. John**, B.S., M.Ed., M.S., Ed.D.,  
 Geography and Dean of Academic Services  
**Thomas A. Sanelli**, B.S., M.A., Ph.D., History  
**Charles J. Scanzello**, B.S., M.A., M.Mus.Ed.,  
 Music  
**Gerald D. Schaeffer**, B.S., M.A., Audiovisual  
 Communications  
**Alma H. Schlenker**, B.S., M.A., Ed.D., Associate  
 Dean, School of Education  
**Allen Schutt**, B.S., M.Ed., Geography  
**Robert H. Seewald**, A.B., Ph.D., Biology  
**Thomas P. Sexton**, B.S., M.A., Ph.D., Spanish  
**Edward A. Shackelford**, A.B., M.A., Philosophy  
**Musab Siddiqi**, B.A., M.A., M.S., Ph.D.,  
 Sociology  
**Frank Siekmann**, B.S., M.A., Ed.D., Music  
**Arthur H. Sinclair**, B.S., M.A., Speech and  
 Theatre  
**Daniel F. Skeath**, B.S., M.Ed., D.Ed., Psychology  
**Max H. Slick**, B.A., M.S., Ph.D., Geography  
**Rosemarie G. Sloat**, B.S., M.F.A., Art  
**Richard A. Smith**, B.S., M.Ed., Ed.D., Education  
**Oscar L. Snyder**, B.S., M.A., Mathematics  
**Floyd H. Stauffer**, A.A., B.S., M.S., Education  
**John E. Stolz**, B.S., M.F.A., Art Education and  
 Crafts  
**Ray Sunderland**, B.S., M.Ed., Ph.D., Director,  
 Student Teaching and Certification  
**Alfred K. Thomas**, A.B., M.A., Ph.D., English  
**Roy Clarence Thomas**, B.S., Ed.M., Head,  
 Music  
**Selma Thomson**, A.B., M.A., Music  
**Christine T. Tibbits**, B.A., M.A., Director of  
 Student Activities  
**Stephen Tibbits**, B.S., M.S., Ed.D., Director of  
 Commuter and Judicial Services,  
 Acting Dean, Student Life  
**James Herbert Tinsman**, A.B., A.M., M.A., Ph.D.,  
 Anthropology  
**Priscilla A. Waggoner**, A.B., M.A., Ph.D.,  
 History  
**Karl F. Walter**, B.S., M.EPC, Physical Science  
**Walter C. Warzeski**, A.B., M.Ed., Ph.D.,  
 History  
**Charles Watkins**, B.A., M.A., Pennsylvania  
 State University; J.D., University of Idaho,  
 Philosophy  
**Glenn R. Webb**, B.S., M.S., Ph.D., Biology  
**Richard G. Wells**, B.S., M.A., Music  
**Bruce S. Wetherhold**, B.S., Health, Physical  
 Education and Dance  
**Jason W. White**, B.S., M.S., Mathematics  
**Bruce Whiting**, M.B.A., D.B.A., Management  
**Mary Grace Wible**, B.S., M.Ed., Art Education  
**Mary W. Wiens**, A.B., M.A., Education  
**Mary P. Williams**, B.A., Ed.M., Ed.D.,  
 Psychology  
**Esther M. Willits**, B.S., M.A., History  
**John Wood**, B.A., M.S., Ph.D., Education  
**Robert Wolff**, B.S., M.D., Ed.D., Mathematics  
**Charles W. Yarrison**, B.S., M.Ed., D.Ed., Biology  
**Michael Yatron**, B.S., M.A., Ph.D., English  
**Charles D. Youngerman**, B.S., B.A., M.A.,  
 History and Social Studies Education  
**H. Dale Zimmerman**, B.A., Ed.M., Ed.D., M.Div.,  
 Director of Orientation and Student  
 Leadership Development

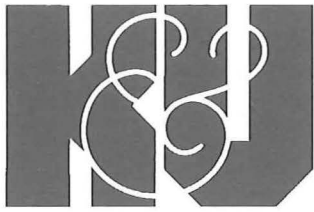
# Index

Academic Eligibility .....	18	Developmental Course Enrollment .....	22	Mission of University .....	7
Academic Forgiveness .....	26	Dining Services .....	46	Music .....	60,84,168
Academic Probation .....	19	Discrimination/Harrassment .....	46	Nursing .....	79,172
Academic Regulations .....	16	Dismissal .....	20	Off-Campus Housing .....	43
Academic Warning .....	19	Division and Curricula .....	37	Other Resources .....	10
Accounting .....	48,101	Early Childhood Education .....	83	Part-Time Enrollment .....	19
Activities .....	43	Earth Space Science .....	84,91	Pass/Fail .....	16
Administration .....	208	Economics .....	48,51,128	Permission to Study at Another College .....	23
Administrative Officers .....	209	Education .....	38,82,130	Philosophy .....	72,174
Admission of Former Students .....	14	Elementary Education .....	82,131	Physical Education .....	85,176
Admission of Freshmen .....	12	Emeriti .....	219	Physics .....	80,95,177
Admission of Transfer Students .....	12	Engineering .....	81,133	Political Science .....	72,179
Admission to Teacher Certification Programs .....	13	English .....	69,84, 92,133	President's Message .....	6
Advanced Placement .....	21	Environmental Science .....	77,137	Private and Institutional Aid .....	33
Advance Registration Deposit .....	15,28	Events Program .....	43	Professional Writing .....	182
Advanced Standing .....	20	Extended Learning .....	11, 15	Psychology .....	72,80, 85,184
Affirmative Action .....	45	Faculty .....	211	Public Administration .....	80
Anthropology .....	69,102	Fees .....	27	Public Safety .....	45
Art .....	83,105	Finance .....	49,137	Quality Point Average .....	18
Art Education .....	52, 105	Financial Aid .....	30	Reading .....	83
Art History .....	106	Fine Arts .....	138	Registration .....	15
Assistants/Associates .....	208	Foreign Languages .....	22,84, 92,141	Related Arts .....	61,187
Astronomy .....	92,107	Four Hundred Level Courses .....	22	Residence Facilities and Policies .....	42
Athletics .....	45,85	French .....	70,141	Resources Provided .....	9
Audiovisual Communication .....	108	Full Time Enrollment .....	18	Russian .....	72,188
Auditing Courses .....	16	General Admission Requirements .....	12	Schedule and Curriculum Changes .....	17
Bachelor of Arts .....	67	General Business .....	49	Scholarships .....	35
Bachelor of Science .....	74	General Science .....	94	School District Services .....	10
Biology .....	75,83, 91,108	General Studies .....	70,77,143	Science .....	85
Board of Governors .....	208	Geography .....	70,84,143	Secondary Education .....	90,189
Bookstore .....	43	Geology .....	77,92,146	Services to the School Districts .....	10
Buckinghamshire College Exchange Program .....	11	German .....	71,149	Social Equity .....	46
Business .....	114	Grading .....	18	Social Studies .....	85,95
Career Services .....	44	Grade Appeal Policy .....	24	Social Work .....	73,190
Change of Name and/or Address .....	15	Graduate Studies, College of .....	100	Sociology .....	73,193
Cheating and Plagiarism .....	20	Graduation and Certification .....	97	Spanish .....	74,195
Chemistry .....	75,91,115	Graduation With Honor .....	18	Special Education .....	86,197
Child Abuse History Clearance .....	14	Grants .....	30	Speech .....	85,200
Class Attendance .....	16	Health .....	150	Speech Communication .....	63
Classification .....	18	Health Center .....	44	Student Affairs .....	42
CLEP .....	20	History .....	71,84,151	Student Life .....	42
College of Business .....	11,37,47	Honors Courses .....	22, 144	Student Employment .....	32
Commencement Awards .....	33	Honors Supplementary Research .....	155	Student Government Association .....	43
Communication .....	91	Housing Deposit .....	15,28	Student Teaching .....	10,23
Communication Design .....	54,117	Independent Study .....	22	Student Union Building .....	46
Communications Directory .....	2	Individualized Instruction .....	21	Studio Art .....	58
Computer and Information Science .....	76,119	International Business .....	49, 155	Summer Sessions .....	11
Council of Trustees .....	208	International Student Exchange .....	11	Telecommunications .....	80,202
Contents .....	3	International Studies .....	155	Ten-Year Rule .....	20
Counseling and Related Services .....	44	Key Charges .....	28	Theatre .....	64,205
Course and Schedule Selection .....	16	Late Registration .....	15	Transportation .....	9
Course Description, Undergraduate .....	101	Leave of Absence Policy .....	23	University Calendar .....	4,5
Crafts .....	57,122	Liberal Arts and Sciences .....	37,67,81	University History .....	9
Credit by Examination .....	21	Library Science .....	81,89,156	Urban Education .....	86
Credit for Courses .....	16	Loans .....	31	Veterans' Affairs .....	45
Criminal Record Check .....	14	Location of University .....	9	Visual and Performing Arts, College of .....	37,52
Criminal Justice .....	76,124	Management .....	50,157	Withdrawal from Course(s) .....	17,29
Dance .....	83,125	Marine Science .....	78,92,159	Withdrawal from Institution .....	17,29
Deans .....	208	Marketing .....	50,161	Withdrawal from Meal Plan .....	29
Dean's List .....	18	Mathematics .....	72,79,84, 94,163	Withdrawal from Residence Hall .....	29
Delinquent Accounts .....	28	Mathematics Education .....	166	Withdrawals and Refunds .....	29
Department Chairpersons .....	210	Medical Technology .....	79,167	Women's Studies .....	207
Deposits .....	28	Microcomputers .....	167		
Description of Fees .....	27	Military Financial Assistance .....	33		
Developmental Course Descriptions .....	128	Military Science .....	167		



# Notes

# Notes

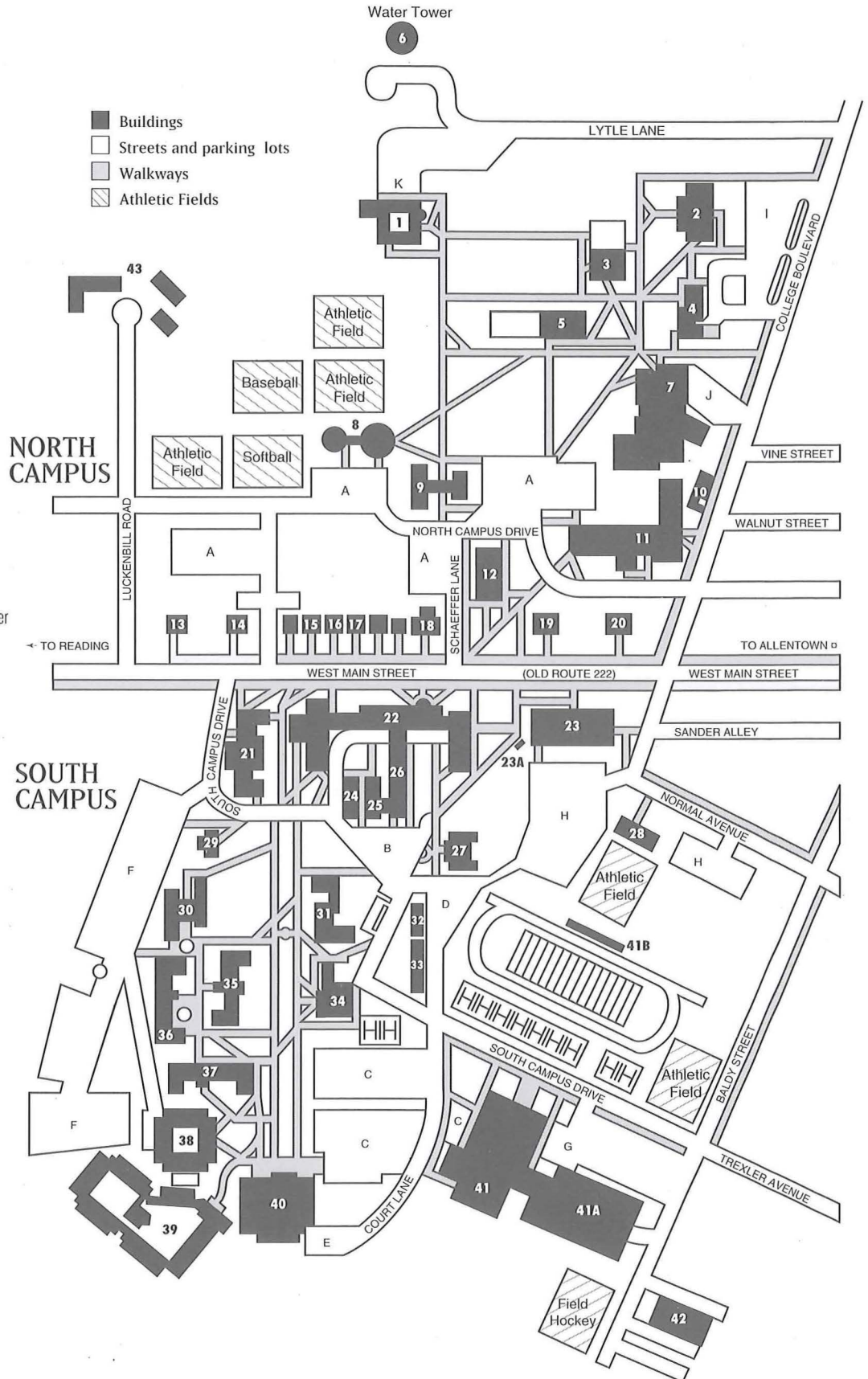


*Kutztown University...and you!*

# Kutztown University Campus Map

## Directory

1. Lytle Hall
2. Beekey Education Building
3. deFrancesco Building
4. Rickenbach Research and Learning Center
5. Rohrbach Library
6. Water Tower
7. Student Union Building
8. Grim Science Building
9. Boehm Science Building
10. Communication Design Building
11. Sharadin Art Building
12. Schaeffer Auditorium
13. Lutheran Center
14. Special Interest Student Residence
15. Wiesenberger Alumni Center
16. Boxwood House
17. Christopher House
18. Graduate Center
19. President's Home
20. Special Interest Student Residence
21. Rothermel Hall
22. Old Main
23. Lawrence M. Stratton Administration Center
- 23A. Information Center
24. Campus Laundry
25. Health Center; Special Interest Student Residence
26. Georgian Room of Old Main
27. Risley Hall
28. Kemp Special Education Building
29. John B. White House - Special Interest Student Residence
30. Schuylkill Hall
31. Beck Hall
32. Heating Plant
33. University Garage
34. Deatrick Hall
35. Berks Hall
36. Lehigh Hall
37. Johnson Hall
38. Bonner Hall
39. University Place
40. South Dining Hall
41. Keystone Hall
- 41A. Keystone Field House
- 41B. University Stadium and Press Box
42. Maintenance Building
43. Pennsylvania German Cultural Heritage Center



Kutztown University  
Kutztown, PA 19530

A member of the Pennsylvania  
State System of Higher Education

