

1991

## 1991-1992 Southern Illinois University Bulletin Carbondale Campus (Counselor's Advisement Catalog)

Southern Illinois University Carbondale

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Southern Illinois University  
at Carbondale  
**BULLETIN**

**1991 - 92**

**Counselor's  
Advisement  
Catalog**





Please note,

Volume 32, Issue 4,

General Information for  
undergraduates, is bound  
with General Information  
for undergraduates, Volumes  
27-34.





# Southern Illinois University at Carbondale BULLETIN

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## 1991-92 Counselor's Advisement Catalog

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Southern Illinois University  
at Carbondale Bulletin (USPS 506-080)

Volume 32, Number 1, June 1990

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Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action institution in accordance with Civil Rights legislation and does not discriminate on the basis of race, religion, national origin, sex, age, handicap or other factors prohibited by law in any of its educational programs, activities, admissions or employment practices. Concerns regarding this policy should be referred to the Affirmative Action Office, Southern Illinois University at Carbondale, Anthony Hall, Room 105, telephone 536-6618.



## UNIVERSITY CALENDAR

### Fall Semester 1990

Fall Orientation  
Semester Classes Begin  
Labor Day Holiday  
Fall Vacation

Thanksgiving Vacation

Final Examinations

Wednesday, August 15-Sunday, August 19  
Monday, August 20, 8:00 a.m.  
Monday, September 3  
Thursday, 10:00 p.m.-Wednesday, 8:00 a.m.  
October 25-October 31  
Wednesday, 10:00 p.m.-Monday, 8:00 a.m.,  
November 21-November 26  
Monday-Friday, December 10-14

### Spring Semester 1991

Semester Classes Begin  
Martin Luther King, Jr.'s Birthday Holiday  
President's Day Holiday  
Spring Vacation

Final Examinations  
Commencement

Monday, January 14, 8:00 a.m.  
Monday, January 21  
Monday, February 18  
Saturday, 12:00 noon-Monday, 8:00 a.m.,  
March 9-18  
Monday-Friday, May 6-10  
Saturday, May 11 and Sunday, May 12

### Summer Session 1991

Eight Week Session Begins  
Independence Day Holiday  
Final Examinations  
Commencement

Monday, June 10, 7:30 a.m.  
Thursday, July 4  
Thursday and Friday, August 1-2  
Saturday, August 3

### Fall Semester 1991

Semester Classes Begin  
Labor Day Holiday  
Fall Vacation

Thanksgiving Vacation

Final Examinations

Monday, August 19, 8:00 a.m.  
Monday, September 2  
Thursday, 10:00 p.m.-Wednesday, 8:00 a.m.  
October 31-November 6  
Wednesday, 10:00 p.m.-Monday, 8:00 a.m.,  
November 27-December 2  
Monday-Friday, December 9-13

### Spring Semester 1992

Martin Luther King, Jr.'s Birthday Holiday  
Semester Classes Begin  
Spring Vacation

Final Examinations  
Commencement

Monday, January 20  
Tuesday, January 21, 8:00 a.m.  
Saturday, 12:00 noon-Monday, 8:00 a.m.,  
March 14-23  
Monday-Friday, May 11-15  
Saturday, May 16 and Sunday, May 17



Southern Illinois University  
at Carbondale

## LEGEND

### Old Campus

1. Old Main Site
2. Altgeld Hall (1896)
3. Wheeler Hall (1904)
4. Allyn Building (1908)
5. Anthony Hall (1913)
6. Shryock Auditorium (1918)
7. Davies Gymnasium (1925)
8. Parkinson Laboratory (1928)
9. McAndrew Stadium (1938)

### New Campus

10. Pulliam Hall (1951)
12. Woody Hall (1953)
13. Lindgren Hall (1953)
14. Morris Library (1956)
15. Thompson Point Residence Halls (1957)
16. Agriculture Building (1957)
17. Quigley Hall (1959)
18. Southern Hills Family Housing (1960)
19. Greek Row (1960)
20. Student Center (1961)
21. SIU Arena (1964)
22. Wham Education Building (1964)
23. University Park Residence Halls (1965)
24. Lawson Hall (1965)
25. Communications Building (1966)
26. Health Service (1966)
27. Technology Buildings (1966)
28. Henry J. Rehn Hall (1967)
29. James W. Neckers Building (1968)
30. Evergreen Terrace Family Housing (1968)
31. Washington Square (1967)
32. Brush Towers Residence Halls (1968)
33. Life Science II (1971)
34. President's Home (1971)
35. Faner Building (1973)
36. Student Recreation Center (1977)
37. College of Technical Careers Building (1978)
38. Hiram H. Lesar Law Building (1981)

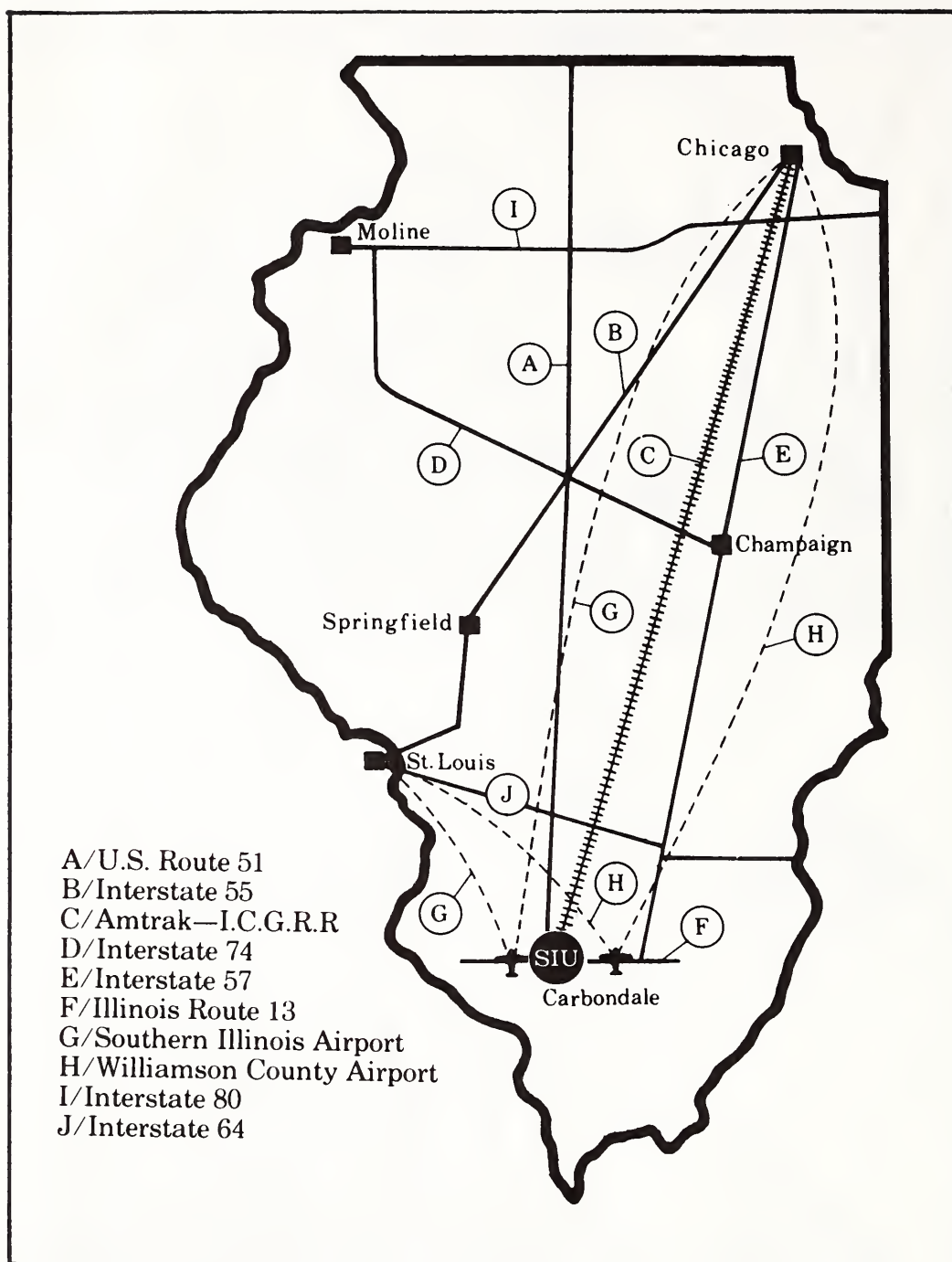
### Schools and Colleges

- College of Agriculture 16  
College of Business and Administration 28  
College of Communications and Fine Arts 25  
College of Education 22  
College of Engineering and Technology 27  
College of Liberal Arts 35  
College of Science 29  
College of Technical Careers 11, 37  
School of Social Work  
Graduate School 12  
School of Law 19,38  
School of Medicine 13

### Offices

- Anthony Hall 5  
President's Office  
Student Center 20  
Book Store  
Cafeteria  
Information Desk  
Washington Square 31  
Housing Business Services  
Parking Division  
Woody Hall 12  
Admissions and Records  
Bursar Office (Fee Payment)  
Career Development and Testing  
Center for Basic Skills  
Counseling Center  
Disabled Student Services  
Financial Aid  
Graduate Studies and Research  
International Education  
New Student Admission Services  
Pre-Major Advisement  
Student Services  
University Placement Center





## CAMPUS

The original eight-building campus with its Gothic architectural tradition is now completely surrounded by a sprawling modern 1128-acre campus with a maze of paths, impressive buildings, and attractive resident halls. Even though the original campus still serves as a focal point of study and university tradition, the prevailing design of the 255-building campus now is contemporary. Facilities vary in style, size, and purpose from a circular 10,000-seat arena, to an eight-sided multimedia instruction center, 17-story high-rise residence halls, and a permanent beach house on the 40-acre spring-fed campus lake.

Oriented to teaching and research, the University provides a balance of laboratories and classrooms which serve as satellites to the impressive 7-story Morris Library containing over 2.0 million volumes and subscribing to 14,400 current periodicals.

Additional facilities include the College of Technical Careers' Carterville campus some ten miles east, the Southern Illinois Airport three miles west, laboratories at Little Grassy Lake, and University Farms.

## UNIVERSITY DIRECTORY

Listed below are the various offices, schools and colleges which are available to aid counselors, prospective students, and parents in answering questions which may not be within the scope of the various University publications. Please feel free to direct inquiries to the appropriate areas.

The general University telephone number is (618) 453-2121. The mailing address is Southern Illinois University at Carbondale, Carbondale, Illinois 62901.

### OFFICES

SIUC (University Switchboard)	(618) 453-2121
Admissions and Records	(618) 453-4381
Aerospace Studies (AF-ROTC)	(618) 453-2481
Airport, Southern Illinois	(618) 453-1147
Army Military Science (Army ROTC)	(618) 453-5786
Athletics, Intercollegiate for Men	(618) 453-5311
Athletics, Intercollegiate for Women	(618) 536-5566
Athletics, Tickets	(618) 453-5319
Bursar (payment of fees)	(618) 453-2221
Center for Basic Skills (Woody Hall)	(618) 536-6646
Continuing Education	(618) 536-7751
Counseling Center	(618) 453-5371
Disabled Student Services	(618) 453-5738
Financial Aid Office	(618) 453-4334
Health Services	(618) 453-3311
Housing Business Services (on-campus housing)	(618) 453-2301
Housing Information Services (off-campus housing)	(618) 453-2301
International Development	(618) 453-5774
New Student Admission Services	(618) 536-4405
(Illinois residents call toll free)	(800) 642-3531
Parking Division	(618) 453-5369
Pre-Major Advisement (Woody Hall)	(618) 453-4351
Student Development	(618) 453-5714
Student Life	(618) 536-2338
Student Services	(618) 453-2374
Testing Center (CLEP, Placement/Proficiency, ACT Residual)	(618) 536-3303
University Electronic Communications	(618) 536-3325
University Honors	(618) 453-2824
University Ombudsman	(618) 453-2411

### SCHOOLS AND COLLEGES

Agriculture, College of (Agriculture Building)	(618) 453-2469
Business and Administration, College of (Rehn Building)	(618) 453-3328
Communications and Fine Arts, College of (Communications Building)	(618) 453-4308
Education, College of (Wham Education Building)	(618) 453-2415
Engineering and Technology, College of (Technology Building)	(618) 453-4321
Graduate Studies and Research (Woody Hall)	(618) 536-7791
Law, School of	(618) 536-7711
Liberal Arts, College of (Faner Building)	(618) 453-2466
Medicine, School of (Wheeler Building)	(618) 536-5513
Science, College of (Neckers Building)	(618) 536-6666
Social Work, School of (Quigley Building)	(618) 453-2243
Technical Careers, College of (Technical Careers Building)	(618) 536-6682

## GENERAL INFORMATION

### ENVIRONMENT

Community: Carbondale, Illinois (pop. 26,400)  
Location of State: Southern Illinois (Jackson County)  
Miles from: St. Louis, 110; Chicago, 330; New York, 960; San Francisco, 2,140  
Terrain: Slightly rolling (elevation 400-500 feet)  
Climate: Pleasant and mild year-round temperature, mean annual temperature 57.0 degrees  
Area: Historical "Little Egypt," year-round outdoor recreation, four scenic large lakes, national forest and game refuge  
Transportation: Major train, plane, and bus routes: Amtrak Rail System, Prime Air, TWE; SIUC Air Institute Charter Service; highway routes Interstate 57, US 51, Illinois 13

### UNIVERSITY

Name: Southern Illinois University at Carbondale  
Founded: 1869  
President: John C. Guyon  
Campus location: Southwest corner of the community  
University telephone number: (618) 453-2121  
Type: Public state university of the Southern Illinois University system  
Student body: Co-ed  
Curriculum: Undergraduate, graduate, and professional  
Calendar: Early semester (fall and spring), summer session  
Campuses: Carbondale; College of Technical Careers' Carterville Campus; Southern Illinois Airport; outdoor laboratories; university farms  
Acreage: 7,253; on-campus, 1128 acres  
Campus buildings: 255  
Colors: Maroon and white  
Mascot: Saluki (Egyptian hunting dog)

### STUDENT DATA

Enrollment, Fall 1989: 24,596  
Undergraduate, 20,429, Graduate, 3,594; Professional, 573;  
Men, 14,856; Women, 9,740  
Residency: Illinois, 19,790 (80%); Out-of-state, 3,108 (13%), 100 other countries, 1,698 (7%)

### PERSONNEL, 1989

Percentage full-time faculty with doctorate: 65%  
Undergraduate student/faculty ratio: 18:1

### DEGREES

Undergraduate: Associate: A.A.S.; Baccalaureate: B.A., B.S., B. Mus., B.F.A.  
Graduate: M.Acc., M.S., M.B.A., M.F.A., M. Mus., M.P.A., M.S., M.S. Ed.;  
Specialist Degree (6 yr); Ph.D., Rh.D., D.B.A., M.D., J.D.



## ACCREDITATIONS AND AFFILIATIONS

North Central Association of Colleges and Schools  
Accreditation Board for Engineering and Technology (ABET)  
Accreditation Council of the American Assembly of Collegiate Schools of Business  
Accrediting Council of Education in Journalism and Mass Communications  
American Association for Accreditation of Laboratory Animal Care  
American Association of Airport Executives (AAAE)  
American Association of Museums  
American Bar Association  
American Board of Examiners in Speech Pathology and Audiology  
American Board of Funeral Service Education  
American Chemical Society  
American Dietetic Association  
American Institute of Architects  
American Institute of Professional Geologists  
American Library Association  
American Physical Therapy Association  
American Psychological Association  
Association of American Law Schools  
The Association of American Publishers  
The Association of American University Presses  
Association of Collegiate Schools of Architecture  
Association of Research Libraries  
Association of University Programs in Health Administration (AUPHA)  
Commission on Accreditation of Rehabilitation Institute  
Commission on Dental Accreditation of the American Dental Association  
Committee on Allied Health Accreditation (CAHEA) of the American Medical Association and  
the Joint Review Committee for Radiologic Technology Education  
CAHEA and the Joint Review Committee for Respiratory Therapy Education  
Community Development Society  
Connecticut State Board of Education  
Council for Accreditation for Counseling and Related Educational Programs (CACREP)  
Council on International Education Exchange (CIEE)  
Council on Rehabilitation Education  
Council on Social Work Education  
Federal Aviation Administration  
Foundation for Interior Design Education Research (FIDER)  
Honors Council of the Illinois Region (HCIR)  
Illinois Certification Boards, Inc.  
Illinois Department of Registration and Education  
Illinois State Board of Education  
Liaison Committee on Medical Education of the American Medical Association and the  
Association of American Medical Colleges  
National Academy of Early Childhood Programs Sponsored by the National Association  
for the Education of Young Children  
National Association of Industrial Technology (NAIT)  
National Association of Schools of Art and Design  
National Association of Schools of Music  
National Association of Schools of Public Affairs and Administration  
National Athletic Trainers Association (NATA)  
National Collegiate Honors Council  
National Council for Accreditation of Teacher Education  
National Fire Protection Association  
National Institute for Automotive Service Excellence  
National League for Nursing  
National Recreation and Parks Association (National Accreditation Council)  
National Shorthand Reporters Association  
Photo/Marketing Association International  
Service Members Opportunity Colleges  
Society of American Foresters (SAF)  
University Council for Vocational Education  
Upper Midwest Honors Council  
Western Association of Schools and Colleges

## UNDERGRADUATE ACADEMIC PROGRAMS

Accounting  
Administration of Justice  
    Law Enforcement (12)  
    Juvenile Justice and Delinquency Prev. (12)  
    Corrections (12)  
    Security Management (12)  
Administrative Assistant (12)  
Advanced Technical Studies (2,9)  
Advertising (12)  
African Studies (1)  
Aging Studies (1)  
Agribusiness Economics (2)  
Agricultural Education (3,12)  
Agricultural Information (12)  
Agricultural Mechanization (12)  
Agricultural Production (12)  
Agriculture (Undecided) (4)  
Agriculture, General  
    Agricultural Education (3,12)  
    Agricultural Information (12)  
    Agricultural Mechanization (12)  
    Agricultural Production (12)  
Allied Health Careers Specialties (5)  
Animal Science (2)  
    Equine Science (12)  
    Production (12)  
    Science and Pre-Veterinary Medicine (12)  
Anthropology  
Apparel Design (12)  
Aquatics (1)  
Architectural Technology (5)  
Art  
    Art Education (3,12)  
    Art History (12)  
    Ceramics (12)  
    Drawing (12)  
    Fibers/Weaving (12)  
    General Studio (12)  
    Metalsmithing (12)  
    Painting (12)  
    Printmaking (12)  
    Sculpture (12)  
Asian Studies (1)  
Athletic Training (12)  
Automotive Technology (5)  
Aviation Flight (5)  
Aviation Maintenance Technology (5)  
Aviation Management (2)  
Avionics Technology (5)  
Behavioral Disorders (3,13)  
Biological Sciences (3)  
Black American Studies (1)  
Botany  
Business (Undecided) (4)  
Business and Administration  
Business Economics  
Business Education (3,12)  
Chemistry (3)  
Child and Family Services (1,2,12)  
Chinese (1)  
Cinema and Photography  
Civil Engineering  
Civil Engineering Technology (12)  
Classical Civilization (1)  
Classics (3)  
Clothing and Textiles (2)  
    Apparel Design (12)  
    Double Specialization (12)  
    Retailing (12)  
Coaching (1)  
Commercial Graphics - Design (5)  
Communication Arts and Studies (12)  
Communication Disorders and Sciences (3)  
Communication Education (3,12)  
Communications and Fine Arts (Undecided) (4)  
Community Development (1)  
Community Health (12)  
Comparative Literature (1)  
Computer Information Processing (5)  
Computer Science  
Construction Technology (5)  
Consumer Economics & Family Mgt. (2)  
Consumer Studies (1)  
Corrections (12)  
Court and Conference Reporting (12)  
Creative Writing (12)  
Dental Hygiene (5)  
Dental Technology (5)  
Design  
    Product Design (12)  
    Visual Communication (12)  
Dietetics (12)  
Early Childhood (3)  
    Child and Family Services (2,12)  
    K-3 (12)  
    Pre-School/Primary (12)  
Earth Science (1)  
East Asian Civilizations (1)  
Economics  
Education (Undecided) (3,4)  
Education, Training & Development (12)  
Educational Media (1)  
Electrical Engineering  
Electrical Engineering Technology (12)  
Electronics Management (2)  
Electronics Technology (5)  
Elementary Education (3)  
Engineering (Undecided) (4)  
Engineering Technology  
    Civil (12)  
    Electrical (12)  
    Mechanical (12)  
English  
    Creative Writing (12)  
    Departmental Honors (12)  
    General (12)  
    Pre-Professional (12)  
    Teaching (1,3)  
Entrepreneurship (12)  
Environmental Science (12)  
Equine Science (12)  
Equine Studies (1)  
Exercise Science & Physical Fitness (12)  
Finance  
    Financial Institutions (12)  
    Financial Management (12)  
Fire Science Management (2,10)  
Food and Nutrition  
    Dietetics (12)  
    Hotel, Restaurant & Travel Adm. (2,12)  
    Food and Nutrition Science (12)  
Foreign Language and International Trade  
Forestry  
    Forest Resources Management (12)  
    Forest Science (12)  
    Outdoor Recreation Resource Mgt. (12)  
French (3)  
Geography (3)  
Geology  
German (3)  
Greek (1)  
Health Care Management (2)  
Health Education (3)  
    Community Health (12)  
    Health Educ. in Secondary Schools (12)  
Health Occupations Education (3,12)  
History (3)  
Home Economics Education (3,12)  
Hotel, Restaurant & Travel Admin. (12)  
Human Resources (Undecided) (4)  
Industrial Education (3,12)  
Industrial Technology (2)  
    Manufacturing Technology (12)  
Interior Design

Japanese (1)  
 Journalism  
   Advertising (12)  
   News-Editorial (12)  
 Juvenile Justice & Delinquency (12)  
 Language Arts (English and Reading) (3)  
 Landscape Horticulture (12)  
 Latin (1)  
 Law Enforcement (11)  
 Learning Disabilities (3,13)  
 Legal Office Assistant (12)  
 Liberal Arts (Undecided) (4)  
 Linguistics  
 Machine Tool (12)  
 Management  
   Entrepreneurship (12)  
   Management (12)  
 Manufacturing Technology (12)  
 Marketing  
 Mathematics (3)  
 Mechanical Engineering  
 Mechanical Engineering Technology  
 Medical Office Assistant (12)  
 Mental Retardation (3,13)  
 Metal Fabrication & Processes (12)  
 Microbiology  
 Mining Engineering  
 Mortuary Science & Funeral Service (5)  
 Museum Studies (1)  
 Music  
   Liberal Arts (12)  
   Music Business (12)  
   Music Education (3,12)  
   Music Theory/Composition (12)  
   Performance (12)  
   Instrumental (12)  
   Jazz (12)  
   Keyboard (12)  
   Voice (12)  
   Piano Pedagogy (12)  
 News-Editorial (12)  
 Office Systems and Specialties (5)  
   Administrative Assistant (12)  
   Court and Conference Reporting (12)  
   Legal Office Assistant (12)  
   Medical Office Assistant (12)  
 Oral Interpretation (12)  
 Paralegal Studies for Legal Assistants (2)  
 Philosophy  
 Photographic Production Technology (5)  
 Physical Education  
   Athletic Training (12)  
   Exercise Science and Physical Fitness (12)  
   Teaching (3,12)  
 Physical Therapist Assistant (5)  
 Physics (3)  
 Physiology  
 Plant and Soil Science (2)  
   Business (12)  
   Environmental Studies (12)  
   General (12)  
   Landscape Horticulture (12)  
   Science (12)  
 Political Science (3)  
 Pre-Dentistry (6)  
 Pre-Law (6)  
 Pre-Major (7)  
 Pre-Medicine (6)  
 Pre-Nursing (6)  
 Pre-Optometry (6)  
 Pre-Osteopathy (6)  
 Pre-Pharmacy (6)  
 Pre-Physical Therapy (6)  
 Pre-Podiatry (6)  
 Pre-School Education (3,12)  
 Pre-Veterinary Medicine (6)  
 Product Design (12)  
 Psychology  
 Public Relations (12)  
 Radio-Television  
 Radiologic Technology (5)  
 Recreation  
   Program Services (12)  
   Therapeutic Recreation (12)  
 Religious Studies  
 Respiratory Therapy Technology (5)  
 Retailing (12)  
 Russian (3)  
 Science (Undecided) (4)  
 Social Studies (3)  
 Social Work  
 Sociology  
 Spanish (3)  
 Special Education (3)  
   Special Education & Elementary Ed. (12)  
   Behavioral Disorders (13)  
   Learning Disabilities (13)  
   Mental Retardation (13)  
 Special Major (8)  
 Speech Communication  
   Communication Arts and Studies (12)  
   Communication Education (3,12)  
   Oral Interpretation (12)  
   Public Relations (12)  
 Theater  
 Therapeutic Recreation (12)  
 Tool and Manufacturing Technology (5)  
   Machine Tool (12)  
   Metal Fabrication & Processes (12)  
   Tool Design (12)  
 Uncommon Languages (1)  
 University Studies  
 Visual Communication (12)  
 Vocational Education Studies (2)  
   Business Education (3,12)  
   Education, Training & Development (12)  
   Health Occupations Education (3,12)  
   Home Economics Education (3,12)  
   Industrial Education (3,12)  
 Women's Studies (1)  
 World Literature (1)  
 Zoology (3)

(1) Minor only.

(2) Capstone Option available if an AAS degree is completed.

(3) Teacher Certification Program Option available.

(4) Not a Major; enter the academic unit as your major and decide a specific major later.

(5) Associate Degree program; can lead toward bachelor's degree or third-year specialization.

(6) Pre-Professional program.

(7) Pre-Major is a classification given all entering students who are undecided about a major.

(8) Special Major may be completed in any academic unit.

(9) An individualized program of study for applicants with occupational, technical, or similar educational background.

(10) Offered off-campus only.

(11) Two-year program; for four-year program, see Administration of Justice.

(12) Specialization.

(13) Concentration.



## APPLICATION REQUEST: ADMISSION PROCEDURES

To request undergraduate admission application materials, write to:

New Student Admission Services  
Southern Illinois University at Carbondale  
Carbondale, IL 62901-4710

or call toll free (in Illinois) 800-642-3531. Direct, call (618) 536-4405.

### ACT/APP

Beginning freshmen can simplify their admission to SIUC by indicating at the time they write the American College Test (ACT) that their test scores should be sent to Southern Illinois University at Carbondale (college code 1144). Students who take the ACT on a national test date and send their scores to SIUC do not have to initiate the application for admission. Once we are in receipt of a student's test scores, we will contact that student automatically. Students who score 21 or higher on the ACT will receive a preprinted application called ACT/APP. To finalize admission, the ACT/APP must be returned to us along with an official copy of the student's high school transcript.

Beginning freshmen who have sent ACT scores to SIUC and who earned a composite score of less than 21 but greater than 18 will be sent an undergraduate admission application. This document must be completed and returned to SIUC's Admissions Office with a copy of the student's high school transcript.

All students who do not send their ACT scores as a result of a national test date must apply through the regular admission application process.

### REQUIRED MATERIALS AND PROCEDURES

#### NEW FRESHMEN APPLICANTS

Freshmen may be considered for admission any time following their sixth semester in high school. Prospective high school students should submit:

1. Completed and signed undergraduate admission application form or the ACT/APP form.
2. Two copies of the high school transcript signed with school seal, class rank, class size, and if available, ACT scores.
3. Official ACT scores (from Iowa City).

#### G.E.D. APPLICANTS

Eligible G.E.D. applicants will be considered for admission upon submission of the following materials.

1. Completed and signed undergraduate admission application form.
2. High school transcript.
3. Official G.E.D. test results.
4. Official ACT scores (required of students less than 21 years of age).

NOTE: Students who did not request the results of the ACT examination be sent to SIUC (code 1144) at the time they registered for the exam must request that a supplemental score report be sent to SIUC by contacting ACT, P.O. Box 451, Iowa City, Iowa 52240.

#### TRANSFER STUDENTS

Transfer students may be considered for admission as early as one year in advance of their intended enrollment at SIUC or as late as the beginning of each semester. Transfer students who will have at least 26 semester hours or 39 quarter hours prior to entering SIUC will be considered for admission upon submission of the following materials:

1. Completed and signed undergraduate admission application form.
2. Official transcripts from each institution attended after high school.

Transfer students who will have less than 26 semester hours or 39 quarter hours prior to actual SIUC enrollment may also be considered for admission as early as one year in advance provided they qualify for admission as beginning freshmen and have the required minimum grade point average. Students will be considered for admission upon submission of the following materials:

1. Completed and signed undergraduate admission application form.
2. Official transcript from each institution attended after high school.
3. High school transcript (2 copies).
4. Official ACT scores.

All students transferring from a non-regionally accredited institution must also submit a high school record and ACT scores regardless of hours completed, degrees earned, or grade point average. All students are required to submit a high school record; those who did not graduate from high school should submit results of G.E.D. examination and their incomplete high school record.

## ADMISSION POLICIES, REQUIREMENTS

### ADMISSION OF FRESHMEN

To be eligible for admission, an applicant must be a graduate of a recognized high school. Graduates of non-recognized high schools may be admitted to the University by completing successfully the General Educational Development (GED) Test or an approved entrance examination.

All admissions granted students while in high school are subject to the completion of high school work and graduation.

If eligible for direct entry into a desired academic unit and major, students entering the University as freshmen are enrolled in the academic unit within the University that offers the degree program (major) they indicate they plan to pursue. Students who are undecided as to the course of study they want to follow are enrolled as pre-major students.

Some majors allow entry only in the fall. Some programs require screening and materials beyond those required for admission into the University and some programs have admission standards higher than those required to enter the University.

### ADMISSION OF FRESHMEN TO BACCALAUREATE PROGRAMS

Also refer to the section on High School Subject Pattern Requirements.

Applicants seeking admission to a baccalaureate program who have an ACT composite score of 21 or higher (SAT 810) are eligible for admission any semester. In addition, high school graduates who rank in the upper half of their graduating class and who score a minimum ACT composite of 19 or higher (SAT 720) are also eligible for admission any semester.

A limited number of applicants who do not meet the University's entrance requirements may be granted admission to the fall semester through a special admission program, the Center for Basic Skills. All applicants who are not admissible by the above requirements will have their applications reviewed for admission to the special program.

### ADMISSION OF FRESHMEN TO ASSOCIATE DEGREE PROGRAMS

Also refer to the section on High School Subject Pattern Requirements.

Students seeking admission to an associate degree program in the College of Technical Careers can qualify for admission any semester if they rank in the upper two thirds of their high school graduating class or score a minimum ACT composite score of 19 or higher (SAT 720).

Students seeking admission to Aviation Flight, Commercial Graphics-Design, Dental Hygiene, Mortuary Science and Funeral Service, Physical Therapist Assistant or Radiologic Technology programs must meet University entrance requirements as well as those of the specific programs. Admission to SIUC does NOT insure acceptance into one of the above two year associate degree programs. All students will receive further information about entry into one of these programs after being granted admission to the University.

Students may be admitted only for the fall semester to associate degree programs in Architectural Technology, Aviation Flight, Dental Hygiene, Physical Therapist Assistant, Commercial Graphics-Design, Dental Technology, Radiologic Technology and Respiratory Therapy. Aviation Flight students must initially satisfy baccalaureate program admission requirements in order to be admitted to Pre-Aviation Flight and receive further screening for direct program entry.

### ADMISSION OF G.E.D. APPLICANTS TO UNIVERSITY PROGRAMS

Non-high school graduates may be considered for admission by satisfactorily passing the G.E.D. examination and submitting all required materials. Students who are less than 21 years of age are also required to achieve a minimum ACT score of 19 for admission to four-year programs. Course pattern requirements will also be required for applicants less than 21 years of age to associate and baccalaureate programs.

### ADMISSION OF TRANSFER STUDENTS

Applicants are considered to be transfer students when they present any amount of graded work for transfer consideration which was earned after high school graduation; otherwise, they are considered for admission as new freshmen.

In the event a transfer students' grade point average cannot be determined, his/her admission may require, in addition to a review of their college performance, standardized examinations and secondary school records.

Transfer students who have been suspended for any reason other than academic failure must be cleared by SIUC's Student Life Office before admission will be granted by the Director of Admissions.

Some majors allow entry only in the fall. Some programs require screening and materials beyond those required for admission into the University and some programs have admission standards higher than those required to enter the University.

Transfer students, if eligible, will be admitted directly to the academic unit in which their major field of study is offered. Students who are undecided about their major field of study will be admitted as pre-major students.

Transfer students who have completed a minimum of one year of work (26 semester hours or 39 quarter hours of credit) can be considered for admission one year in advance of their date of matriculation. Students who are enrolled in a collegiate program for the first time and wish to transfer upon completion of their first term may do so if they meet the University's admission requirements for beginning freshmen. Admission may also be granted one year in advance to students who are in their first term of a collegiate program and qualify for admission as beginning freshmen. Admission granted to a student on partial or incomplete records is granted with the condition that the student will maintain an overall 'C' average and be eligible to continue at the last school attended. Students whose final transcripts indicate a grade point average or scholastic standing less than that required for unconditional admission may have their admission withdrawn.

#### ADMISSION OF TRANSFER STUDENTS TO BACCALAUREATE PROGRAMS

Students who have an overall 'C' average as computed by SIUC (2.0 on a 4.0 scale, all institutions), and are eligible to continue their enrollment at the last institution attended are eligible to be considered for admission for any semester. If a student is seeking admission with fewer than 26 semester hours, the applicant will be required to meet the admission requirements of a beginning freshman as well as a transfer student. This student should also refer to the section on High School Subject Pattern Requirements.

Students who graduate with an associate degree in a baccalaureate-oriented program from an Illinois two-year institution may enter Southern Illinois University at Carbondale any semester without regard to their average provided they have not taken additional college work since graduation. If they have completed additional work, their admission will be considered on the basis of the University's regular transfer admission standards.

A student who has completed a two-year or equivalent program with a 'C' average in an institution which is not accredited by one of the regional accrediting associations will be admitted if the institution is one recognized by NATTS, AMA, ABET, or similar accrediting bodies recognized by the National Commission on Accrediting or the United States Office of Education. Students who have attended a non-regionally accredited institution and who have not completed two-year or equivalent programs or have less than a 'C' average will be considered for admission as entering freshmen.

Students who have been placed on scholastic probation or academic suspension from another college or university will be considered for admission by the Office of Admissions and Records only if an interruption of education has occurred and there is tangible evidence that additional work can be completed successfully. Tangible evidence might include: 1) an interruption of schooling for one or more years; 2) military experience; 3) work experience; and 4) previous academic performance.

#### ADMISSION OF TRANSFER STUDENTS TO ASSOCIATE DEGREE PROGRAMS

Students who have an overall 'C' average (2.0 on a 4.0 scale, all institutions), and are eligible to continue their enrollment at the last institution attended will be considered for admission for any semester. If a student is seeking admission with fewer than 26 semester hours, the applicant will be required to meet the admission requirements of a beginning freshman as well as a transfer student for unconditional acceptance. This student should also refer to the section on High School Subject Pattern Requirements.

Students seeking admission to Aviation Flight, Commercial Graphics-Design, Dental Hygiene, Mortuary Science and Funeral Service, Physical Therapist Assistant, or Radiologic Technology programs must meet University entrance requirements as well as those of the specific programs. Admission to SIUC does NOT insure acceptance into one of the above two year associate degree programs. All students will receive further information about entry into one of these programs after being granted admission to the University.

Students who have been placed on scholastic probation or academic suspension from another college or university will be considered for admission by the Office of Admissions and Records only if an interruption of education has occurred and there is tangible evidence that additional work can be completed successfully. Tangible evidence might include: 1) an interruption of schooling for one or more years; 2) military experience; 3) work experience; and 4) previous academic performance.

A student who is admitted to an associate degree program as a transfer student and then decides at a later date to enter a four-year program must meet the University's baccalaureate admission requirements at the time of transfer.

Students may be admitted only for the fall semester to associate degree programs in Architectural Technology, Aviation Flight, Dental Hygiene, Physical Therapist Assistant, Commercial Graphics-Design, Dental Technology, Radiologic Technology and Respiratory Therapy. Aviation Flight students must initially satisfy baccalaureate program admission requirements in order to be admitted to Pre-Aviation Flight and receive further screening for direct program entry.



## HIGH SCHOOL SUBJECT PATTERN REQUIREMENTS

Beginning freshmen and transfer students with less than 26 semester or 39 quarter hours must also satisfactorily complete course pattern requirements or enter under a "provisional" admission status.

Transfer students with more than 26 semester or 39 quarter hours, students 21 years or older, international students, veterans and applicants on active duty in the military, if admitted, are exempt from the high school subject pattern requirements. Also exempt are students whose class rank places them in the upper 25th percentile and have earned an ACT composite score at the 75th percentile or higher based on college bound norms (ACT composite score is 24--Enhanced ACT 25).

### Course Pattern Requirements

	For Associate Degree Entry	For Bachelor Degree Entry	For Bachelor Degree Entry (1993)
English	3 yrs.	3 yrs.	4 yrs.
Mathematics	2 yrs.	3 yrs.	3 yrs.
Lab Science	1 yr.	2 yrs.	3 yrs.
Social Science	2 yrs.	2 yrs.	3 yrs.
Electives (Art, Music, Foreign Language, Voc. Education)	N/A	1 yr.	2 yrs.

NOTE: One year is defined as 1.0 unit; 0.5 = 1/2 year; 0.33 = 1/3 year and 0.25 = 1/4 year.

### Course Pattern Definitions

English: Coursework must emphasize written and oral communication and literature. General reading, mass communications, radio/television/film and theater are typically not acceptable.

Mathematics: Coursework including introductory through advanced algebra, geometry, trigonometry or fundamentals of computer programming is acceptable. Pre-algebra, business math, career or consumer math are typically not acceptable.

Lab Science: Coursework must be laboratory science including biology, chemistry, physics, earth science or other college preparatory science. General science courses are typically not acceptable.

Social Science: Coursework must emphasize history and government. Anthropology, economics, geography, political science, psychology and sociology are also acceptable.

Electives: Coursework in a foreign language, music, art or vocational education is acceptable.

### Course Pattern Deficiencies

Students admitted provisionally due to a course pattern deficiency will be required to rectify their deficiency in the following manner:

#### English

- \* Earn an ACT English subscore at the 60th percentile (ACT 21--Enhanced ACT 24) or complete a 100-level GEC course at SIUC taught by the English faculty, or
- \* Earn a score of 540 on the CLEP English Composition with Essay Examination, or
- \* Earn a grade of 3, 4 or 5 in English through the High School Advanced Placement Program.

#### Mathematics

- \* Earn an ACT mathematics subscore at the 60th percentile (ACT 21--Enhanced ACT 22), or
- \* Earn an acceptable score on SIUC's Math Placement Test or complete GED 106 (Elementary Algebra) at SIUC, or
- \* Earn a score of 580 or higher on the CLEP Mathematics Examination, or
- \* Earn a grade of 3, 4 or 5 in mathematics or computer science through the High School Advanced Placement Program.

#### Lab Science

- \* Earn an ACT natural science (or Enhanced ACT-Science) subscore at the 60th percentile.
- \* Complete a 100-level GEA course at SIUC, or
- \* Earn a score of 520 or higher on the CLEP Natural Sciences Examination, or
- \* Earn a grade of 3, 4 or 5 in either physics, chemistry or biology through the High School Advanced Placement Program.

#### Social Science

- \* Earn an ACT social science (or Enhanced ACT-Reading) subscore at the 60th percentile.
- \* Complete a 100-level GEB course at SIUC, or
- \* Earn a score of 520 or higher on the CLEP social science and history examination, or
- \* Earn a grade of 3, 4 or 5 in either American History, European History, American Government or Comparative Government and Politics through the High School Advanced Placement Program.



#### Electives

- \* Complete a 100-level GEC course at SIUC or complete a one year (two course) sequence in a foreign language, or
- \* Earn a score of 520 or higher on the CLEP Humanities Examination, or
- \* Earn a grade of 3, 4 or 5 in either foreign language, music or art through the High School Advanced Placement Program.

NOTE: A deficiency may also be corrected at another institution prior to transfer to SIUC. It should be understood that coursework used to fulfill a deficiency cannot be used to meet General Education requirements but may be used as elective credits.

#### ADMISSION OF SPECIAL CATEGORIES OF STUDENTS

Several types of students are given special consideration when seeking admission to the University. These are described below:

##### Second Chance Program

The Second Chance Program is designed to allow some former Southern Illinois University at Carbondale students who had a poor scholastic performance in their initial enrollment a second opportunity to demonstrate their academic capabilities. The program permits students in selected majors to establish a new grade point average calculated from their first semester of readmission. Not all University departments are participating in the Second Chance Program. For a listing of those departments not participating, refer to the Undergraduate Catalog.

**Program Eligibility Requirements.** Former Southern Illinois University at Carbondale students who meet one of the following qualifications may apply for entrance to the Second Chance Program.

1. Adult reentering students who are at least 24 years of age and who previously earned fewer than 60 semester hours at SIUC with less than a 2.0 grade point average. In addition, applicants who have attended any post secondary institution, college, or university including SIUC in the Second Chance Program must have earned a 2.0 cumulative grade point average for collegiate work taken during that period.
2. Veterans who have completed at least one year of active military service after having previously completed fewer than 60 semester hours at SIUC with less than a 2.0 grade point average. SIUC must be the first institution attended since discharge or separation.
3. Community college graduates who have previously earned less than 60 semester hours from SIUC with a grade point average below 2.0 prior to completing an associate degree from a regionally accredited institution. SIUC must be the first institution attended since earning the associate degree.

##### Admission of Veterans

Veterans are admissible in good standing regardless of their previous academic records provided they have completed no college work since military separation or the college work they have completed since separation/discharge is of 'C' quality or better. It is assumed a veteran has graduated from high school or has earned the GED equivalency certificate. A veteran is required to submit all of the necessary academic records to the Admissions Office before his or her application for admission can be processed.

##### Basic Skills

The University operates a program in which educationally and socially disadvantaged students are admitted to the University each fall and spring. All four-year applicants who do not meet established admission requirements will have their applications reviewed for consideration to this program. Those students whose academic records show potential for successfully completing a collegiate program as a result of receiving special assistance may be offered admission to the University.

##### Admission of Adults as Unclassified Students

Adults who have never enrolled in an institution of higher education may enroll in select courses as non-degree students without submitting all of the academic records required of a regularly admitted student. Students in this category must be high school graduates or have passed the GED Test. Applicants interested in seeking admission as an unclassified student are encouraged to write to the Office of Admissions and Records.

##### Evening and Weekend Program

Carbondale area residents may take advantage of the University's evening (after 4:00 p.m.) and weekend credit course offerings through the Evening and Weekend Program offered by the Division of Continuing Education. The application, admission, and registration process is streamlined for such students. Students may enroll for up to a maximum of eight semester hours credit each semester. A reduced fee structure is available. Interested students should contact the SIUC Division of Continuing Education directly at 618-536-7751.

#### ADMISSION OF INTERNATIONAL STUDENTS (General Requirements)

In general, international students must meet the same academic standards for admission as those required of native students. As there is considerable variation between educational systems throughout the world, precise comparative standards are not always available. Therefore, international students are selected upon the basis of their former academic work and the students' financial resources for support during the normal period of time required to reach the objectives of their studies.

In addition to submitting copies of secondary school records and, when applicable, college transcripts, international students must also submit scores from the TOEFL examination (Test of English as a Foreign Language). TOEFL scores are required of all international students who (1 have completed their secondary education in a country where English is not the native language, (2 have completed less than two years study in a United States high school, (3 have completed less than two years (60 semester hours) of collegiate training in an accredited United States college or university. Students who have completed their secondary education in a country where English is the native language are required to submit scores from either the American College Test or the Scholastic Aptitude Test.

Students who have acquired immigrant status are also required to demonstrate English proficiency. English proficiency can be demonstrated by successful completion of the TOEFL examination. Immigrants who have completed at least two years of study in a United States high school, have earned sixty semester hours in a United States college or university, or have completed their secondary education in a country in which English is the native language students must also submit a photocopy of their green card with the application for admission.

International students whose secondary school and college records are acceptable for admission purposes must also submit TOEFL scores. Students whose TOEFL score is 520 or higher will be granted unconditional admission. Applicants whose TOEFL scores are below 520 will be admitted contingent upon completion of an institutional TOEFL administered by the Center for English as a Second Language. Students who fail to submit TOEFL scores, or who do not submit acceptable TOEFL scores, will be required to attend courses at the Center for English as a Second Language at their expense. Sponsoring agencies which enroll international students will be charged an administrative fee of \$100.00 per student per semester.

International students interested in making application to SIUC should address their inquiries to the Office of Admissions and Records, Southern Illinois University at Carbondale, Carbondale, Illinois 62901.

#### ADMISSION TO THE TEACHER EDUCATION PROGRAM

Students are eligible to make formal application to the program with:

1. A minimum of 30 semester hours of completed work.
2. An overall grade point average of at least 2.50 (4.0 scale) in all college work.
3. Completion of GED 101 and GED 102, and one additional English course (GEC or English department) with a grade of 'C' or better.
4. An ACT score of 20 (Enhanced ACT 21) or SAT of 840. Conditional admission may be granted to students who do not meet ACT or SAT standards on the basis of the following: completion with a minimum grade of 'C' since entering 9th grade including work taken in college of:
  - a. four years of English and communication skills. Each three semester hour college composition or writing course equates to one year of high school English.
  - b. two years of mathematics sufficient to include the course content of Algebra I. Computer science courses may not be used to satisfy any part of this requirement.
  - c. two years of science. Courses from either the physical or biological sciences will be accepted toward this requirement.
  - d. two years of social studies.--Conditional admissions are reviewed November 1st, April 1st, and on July 1st.
5. Three letters of recommendation from college or university faculty (transfer students may bring letters of recommendation from school(s) previously attended).

Applications must be submitted in person and must be accompanied by verification that all pre-requisites have been met. Students are responsible for submitting high school transcripts to the Office of Teacher Education. Application forms as well as information about the teacher education program are available from the College of Education Student Services in the Wham Building, room 135.

If a student's application is approved after being reviewed, the student is issued a membership card which entitles the student to begin work in the basic professional education courses which are prerequisite to the professional semester of student teaching. At the end of the first semester of membership, the department offering the student's major is requested to submit a recommendation as to whether or not the student should be retained in the program. Criteria for this recommendation are available from the department or the student's adviser. Failure to obtain approval prohibits the student from continuing with the professional education courses and could lead to suspension from the program. In order to remain in the program and complete the requirements for graduation and teacher certification, the student must attain a 2.50 grade

point average in the major and receive departmental approval. Both of these requirements must be met before final clearance can be given for a student teaching assignment. Students who are not able to meet the criteria of the teacher education program or their major department will be counseled about alternative programs.

#### ADMISSION TO MAJORS IN THE COLLEGE OF BUSINESS AND ADMINISTRATION

**ADMISSION POLICY:** The current admission policy for the College of Business and Administration became effective the summer of 1990 and applies to all students who enroll in the College of Business and Administration at Southern Illinois University at Carbondale for the 1990 Summer Session and thereafter.

**Freshmen:** Beginning freshmen must rank in the top fifty percent of their high school graduating class and have an ACT standard composite score of 24 or above (Enhanced ACT 25) to be eligible for admission to a major offered by the College of Business and Administration. New freshmen who do not meet these requirements but rank in the top half of their high school graduating class and achieve an ACT score of at least 16 (Enhanced ACT 19) will be admitted with a pre-business major classification.

**Transfer Students:** Transfer students who have completed fewer than 26 semester hours must meet the admission requirements of beginning freshmen as well as have earned a collegiate grade point average of 2.5 (4.0 scale). Those students who fulfilled beginning freshmen requirements for direct admission to a department will be granted such admission and those students who qualified for the pre-business classification will be admitted to pre-business. Students who have completed more than 26 semester hours must have earned an overall grade point average of 2.5 or above. Those students who have completed the retention courses required by the College of Business and Administration will be admitted directly to the program in which they have requested admission. Applicants who have failed to complete the retention courses will be admitted with a pre-business classification. The retention courses to be completed are: GED 101, GEB 202, Mathematics 139 and 140, Economics 208 and 214, Accounting 220 and 230, and Computer Science 212 or Computer Information Processing 229. Transfer students who have earned more than 56 hours of transfer credit and have a grade point average of 2.2 to 2.5 will have their applications reviewed by representatives from the College of Business and Administration to determine if they are admissible to the pre-business classification.

**Grade Point Average Calculation:** In calculating a student's grade point average for admission purposes for continuing, new, and reentering students, the Admissions Office will follow the SIUC grading policy and procedures for all collegiate (not remedial) work attempted at SIUC and other collegiate institutions.

**Pre-Business Classification:** Beginning freshmen and transfer students admitted to the University with a pre-business classification may request admission to a College of Business and Administration degree program when all the following conditions have been satisfied:

1. They have earned an overall average of 2.5;
2. They have completed at least 42 semester hours;
3. They have completed six of the College of Business and Administration's nine retention courses with an average of 2.00 in those courses.

To pursue a specific degree program in the College of Business and Administration, students must submit the appropriate application directly to the COBA Student Affairs Office. Students applying for spring must apply by October 1 of the preceding year, for summer by March 1 preceding the summer, and for fall by March 1 preceding the fall. Students who are classified as pre-business majors cannot register for 300- and 400-level courses offered by any of the business departments.

Because interest in business classes continues to be exceedingly high, it may be necessary to close admission to selected business majors without advance notice.

#### **Admission to Majors in the College of Business and Administration (International Students)**

International students must meet admission requirements comparable to those of native students. While admission credentials such as ACT scores and class rank are not generally submitted by international students, students do submit credentials which reflect their achievements in English and mathematics. Therefore, beginning freshmen and transfer students with less than 26 semester hours will be required to submit records which reflect above average achievements in these disciplines in order to be admitted to a business and administration program. Transfer students who have earned 26 semester hours or more of transfer credit will be required to have a 2.5 or comparable grade point average. International students will be required to comply with the retention policy of the College of Business and Administration.



## ADMISSION TO ENGINEERING PROGRAM OPTIONS

### First-Time Admission to Engineering (Freshmen):

- A. A student may be admitted to one of the engineering programs unconditionally if he/she fulfills all of the University admission requirements, has an ACT composite score of 23 (Enhanced ACT 24) or greater, and ranks in the upper half of his/her high school graduating class.
- B. Students with an ACT composite score of 19 to 22 (Enhanced ACT 21-23) must rank in the upper 25% of their graduating class.
- C. In addition to A or B above, all incoming freshmen are required to have completed:
  - 3 years of English (4 years are recommended)
  - 3 1/2 years of Mathematics
    - a. 2 years of Algebra
    - b. 1 year of Geometry
    - c. 1/2 year of Trigonometry
  - 2 years of Science (one year of Chemistry and one year of Physics are recommended)
- D. Students who do not fulfill the above admission criteria (A,B,C) will be placed in a "Pre-Engineering" classification as described under the heading "Pre-Engineering." Students who satisfy items A and B but do not satisfy item C are automatically placed in the normal "Engineering" category upon completion of the C requirement. Student not fulfilling A, B and C may also be admitted to a non-engineering program and later apply for transfer into one of the engineering programs following completion of the 26 semester hour requirement as described under the heading "Pre-Engineering."

### Admission to Engineering (Transfer Students)

- A. First-time transfer students (from another university, a community college or another SIUC academic unit) must have an overall grade point average of at least 2.4\* and at least 26 semester hours of transfer credit. Students without 26 semester hours of transfer credit will fall under freshmen admission requirements.
- B. First-time transfer students with a grade point average between 2.0 and 2.4\* and who are interested in transferring into one of the engineering programs will be admitted to Pre-Engineering. Transfer students with a grade point average between 2.0 and 2.4\* may in special cases be accepted by the department but only upon an individual basis depending upon the ability of the department to accommodate the student demand.
- C. No student whose grade point average is below 2.0 will be admitted to Engineering or Pre-Engineering.

### Pre-Engineering

Students who have been placed in a pre-engineering classification because they have not completed the high school courses required for direct admission to an engineering program will be transferred to an engineering program when the high school prerequisite courses have been satisfied by taking courses at the University.

Students admitted with a pre-engineering classification may request transfer to an engineering program after they have earned at least 26 semester hours at the University with a grade point average of 2.40\* or greater. In addition, at least 12 of the 26 hours must have been earned in engineering, mathematics, and prerequisite science courses which are required for graduation from the engineering program at the University.

Students in the pre-engineering classification who have completed 26 to 60 semester hours and have a 2.0-2.39 grade point average may, in special cases, be admitted to an engineering program in one of the engineering departments. Such student may not transfer to another engineering department without approval of that department chairperson.

Pre-engineering students who have earned less than a 2.40 average after completing 60 or more semester hours and who cannot be admitted by a department as a special case will be transferred to the Pre-Major Advisement Center or may seek entrance to another collegiate unit provided their SIUC grade point average is 2.0. Students transferred from the pre-engineering classification may seek readmission to the College of Engineering and Technology only after they have attained an overall grade point average of 2.40\*.

Students who are classified as pre-engineering majors cannot register for 300 and 400 level courses offered by any of the engineering departments.

### Admission to Engineering (International Students)

International students must meet admission requirements comparable to those of native students. While admission credentials such as ACT scores and class rank are not generally submitted by international students, students do submit credentials which reflect their achievements in subject areas such as English, mathematics and science. Therefore, beginning freshmen and



transfer students with less than 26 semester hours will be required to submit records which reflect above average achievements in these disciplines in order to be admitted to an engineering program. Transfer students who have earned 26 semester hours or more of transfer credit will be required to have a 2.4 or comparable grade point average. International students will be required to comply with the retention policy of the College of Engineering and Technology.

Students who meet minimum University admission requirements but do not meet those requirements for entrance to an engineering program will be granted admission to the College with a pre-engineering classification and be advised as to an appropriate program during the first year. These students must satisfy the requirements previously described for native students in order to transfer to an engineering major.

Engineering (Special Note): For a period of time, particular Engineering departments may establish a transfer grade point average greater than 2.4. Those students seeking admission into Electrical Engineering at this time should contact the College Advisement Office to determine the transfer grade point average for entry into this program. Because interest in engineering classes continues to be exceedingly high, it may be necessary to close admission to selected engineering majors without advance notice.

#### ADMISSION TO THE RADIO-TELEVISION PROGRAM

To be admitted to the Department of Radio-Television, incoming freshmen must rank in the top one-fourth of their high school graduating class and have an ACT Standard Composite score of 19 or higher (Enhanced ACT 21 or higher) or rank in the top one-half of their graduating class and have an ACT Standard Composite score of 22 or higher (Enhanced ACT 23 or higher).

Transfer students seeking admission from another institution or from another program at Southern Illinois University at Carbondale must have a 2.25 grade point average or above. Transfer students with fewer than 26 semester hours must have a 2.25 grade point average or above as well as the rank and test score requirements of an entering freshman.

#### ADMISSION TO THE SCHOOL OF JOURNALISM

To be admitted to the School of Journalism, applicants must meet the following requirements:

Beginning freshmen must meet the University's regular admission requirements.

Transfer students who have completed fewer than 26 semester hours must meet the requirements for beginning freshmen and have earned an overall collegiate grade point average of at least 2.25 (4.0 scale). Transfer students who have completed more than 26 semester hours must have earned an overall collegiate grade point average of at least 2.25.

Students currently enrolled or who were previously enrolled at SIUC in another major must meet the same requirements as transfer students. If they have completed more than 26 semester hours, they must have an overall grade point average of 2.25. Students with fewer than 26 semester hours must meet beginning freshmen requirements as well as have a grade point average of at least 2.25. Grade point average is calculated for purposes of admission to the School of Journalism by using all grades earned at SIUC and other collegiate institutions. This includes repeated courses.

#### Retention Policies

Students majoring in journalism must meet these retention requirements to continue their enrollment in the major: students who have completed 26 semester hours or more must have an accumulative SIUC grade point average of 2.25 or higher. A grade of 'C' or better is required in all journalism courses taken in order to be counted toward the major and to satisfy prerequisite requirements. Students must complete successfully a Language Skills Examination as a prerequisite to a number of required courses in the journalism major.

Continuing, re-entering or transfer students who have earned more than 45 semester hours of credit must complete the Language Skills Examination successfully during their first semester of enrollment in the School of Journalism. Beginning freshmen are encouraged to take this examination as soon as possible and no later than their third semester of attendance. No student will be permitted more than four attempts to complete this requirement. Each student is responsible for any fee that is required for taking this examination.

Students unable to meet these retention requirements will be placed in probationary status within the School of Journalism. These students will be given one semester to correct their deficiency prior to dismissal. Those who are dismissed from the School of Journalism but are eligible to continue at the University will be placed in the Undergraduate Academic Services Unit or they may request permission to enter another collegiate unit.

#### Other Requirements

Journalism students must demonstrate typing ability of 30 words per minute by receiving a passing grade in a typing course or on a typing examination specified by the School of Journalism before registering for Journalism 309 or 310. Those who cannot meet this requirement must enroll in a typing course and receive a grade of 'C' or better.

## HOUSING INFORMATION

### REGULATIONS

ALL SINGLE FRESHMEN under the age of 21, not living with parent or legal guardian, are required to live in on-campus residence halls, or similar privately owned residence halls. The privately owned residence halls must provide facilities, food service, and supervision comparable to on-campus housing. These students are not permitted to live in trailers, rooming houses or apartments.

ALL SINGLE SOPHOMORES under the age of 21, not living with parent or legal guardian, are required to live in on-campus residence halls or University approved off-campus housing. Sophomore approved facilities include rooming houses and apartments. Such facilities are not required to provide food service but must have University-approved adult managers and are inspected and approved by the University.

There are no University regulations for JUNIOR, SENIOR, GRADUATE, MARRIED STUDENTS, VETERANS, OR those students who are 21 years of age by the first day of the fall semester.

### UNIVERSITY FACILITIES FOR SINGLE UNDERGRADUATES

#### BRUSH TOWERS

The Brush Towers residential area, located on the southeast edge of the SIUC campus, consists of two 17 story air-conditioned residence halls (Mae Smith and Schneider Towers). Each hall houses 816 students (male, female, co-ed). Brush Towers residents may use the computer lab located at University Park.

#### UNIVERSITY PARK

The University Park residential area, located on the southeast edge of the SIUC campus consists of one seventeen story residence hall (Neely Hall-male, female, co-ed), and three four-story triad buildings (Allen, Boomer, and Wright Halls-male, female, co-ed). Neely houses 816 students and the triads each house 360 students. (This area is highly recommended for students taking classes at the College of Technical Careers or SIUC Airport since the bus service departs from this location). All buildings are air-conditioned and a computer lab is located in the commons building.

#### THOMPSON POINT

The Thompson Point residential area, located on the southwest edge of the SIUC campus consists of eleven halls with each housing approximately 120 students (male, female, co-ed). All buildings are air-conditioned and a computer lab is located in the commons building.

CONTRACT COSTS - 1990-91 - All Areas      \$1,384/Semester      \$2,768/Academic Year  
There is an additional \$12.00/year housing activity fee.

Inquiries concerning on-campus housing should be directed to University Housing, Supervisor of Contracts, Washington Square-D, SIUC; (618) 453-2301, ext. 32, 39.

### UNIVERSITY FACILITIES FOR MARRIED STUDENTS

#### SOUTHERN HILLS

The Southern Hills residential area located on the southeast edge of the SIUC campus consists of efficiency, one bedroom and two bedroom furnished apartments for married students, single parents, and graduate students.

#### EVERGREEN TERRACE

The Evergreen Terrace residential area located on the southwest edge of the SIUC campus consists of two and three bedroom unfurnished apartments for married students and single parents.

### MARRIED STUDENT HOUSING COST, 1990-91

Efficiency apartments	\$252/month with all utilities
Furnished one bedroom	\$273/month with all utilities
Furnished two bedroom	\$292/month with all utilities
Unfurnished two bedroom	\$317/month with all utilities
	\$241/month, resident pays electricity
Unfurnished three bedroom	\$343/month with all utilities
	\$260/month, resident pays electricity

Interested students should contact Family Housing, Washington Square-B, Southern Illinois University at Carbondale, Carbondale, Illinois 62901; (618) 453-2301, ext. 38.

### OFF-CAMPUS FACILITIES

Single student facilities include residence halls, apartments, rooming houses and trailer courts. Married student facilities include apartments, rooming houses, private houses and trailers. Students may obtain information on off-campus facilities through the Off-Campus Housing Office, Washington Square-B, SIUC; (618) 453-2301, ext. 43, 45.

## GENERAL HOUSING INFORMATION

Application for Housing: An application for University Housing for single students is included with the application for admission. Admitted students for whom there is no housing application on file should contact the University Housing Office for an application. Priority for university housing is determined by the date the University Housing Office receives the completed housing application. Students are not eligible to receive a housing contract until they are officially admitted. Early application (even during the junior year) is encouraged.

Term of Contract: University Housing contracts are written for the fall and spring semesters and remain in effect for these two semesters. Summer contracts are issued separately. Students who desire housing during both the summer and the fall should submit two separate housing applications. Cancellation of contracts must be made in writing to the Supervisor of Contracts, Washington Square D.

Greek Row: This residential area primarily provides housing for recognized sororities and fraternities. Assignment to these areas is by invitation and interested students should contact fraternal organizations or the Inter-Greek Council, (618) 453-5714.

Meal Services: In all areas except married student housing and Greek Row, meals are provided on the basis of 20 meals per week, 3 meals each day, 6 days per week, and breakfast and noon dinner on Sundays. Unlimited second helpings are offered. No other food plans are available. A full-time dietitian is available to assist students with special dietary needs.

Special Interest Groups: Students may request to be assigned to areas where their special interest can be accommodated, such as study areas, graduate areas, over 21, University Honors Program areas or the College of Engineering and Technology hall.

Co-ed Living: Co-educational living (alternate suites of men and women on the same floor) is available in all areas, except the University Park Triads, for students who have reached sophomore standing. Co-ed housing in the Triads is by floor.

Room Furnishings: All rooms are equipped with two beds, closet space, two chests of drawers, two desks, two study chairs, and draperies. Room arrangements are two students per room sharing a private bath with the adjoining room. The University Park Triads have several showers and restrooms centrally located on each floor for easy access by residents. Local telephone service is provided; however, students must provide their own telephone instrument.

Roommates: New students, both freshman and transfer, have the opportunity to request a roommate of their choice before arriving, provided the request is mutual, each student has a signed contract on file with advance payment for the same residential area, and space exists at the time room assignments are made.



## REGISTRATION AND ADVISEMENT

Two registration periods are available each semester: Advance and Final.

Advance Registration is conducted during approximately eight weeks of the preceding semester. New freshmen and transfer students entering in the fall semester have several weeks during April, May, June, July and August set aside for the purpose of orientation, advisement, and registration. The advance registration period is highly recommended for new freshmen and transfer students as it permits maximum course selection, counseling and campus orientation.

Final Registration is conducted during the last three weekdays preceding the start of the semester. Late applicants and students who did not advance register will complete the advisement and registration process during this period.

A similar procedure is used for advisement and registration for the spring semester and summer session.

### ADVISEMENT

All new students (freshmen and transfers) are notified by mail of advisement procedures. Notices are mailed out for the semester indicated around the following dates: fall, March 15; spring, October 15; summer, March 15.

All new students will receive additional information on the advance registration procedures at the time they receive their advisement appointment. Should a student find it is impossible to keep the advisement appointment he or she should contact the specific advisement unit and suggest an alternative date during the advance registration period.

Re-entry and continuing students must make their own advisement appointment with their academic unit advisement center.

### OFF-CAMPUS ADVISEMENT AND REGISTRATION

Advisement and registration for the fall semester is available off-campus usually twice a year, March (Springfield area), and May (Chicago area). All new students will be notified by mail concerning these special advisement and registration opportunities.

### PROCEDURES

Advance registration usually takes one-half day unless the student elects to take advantage of various proficiency examinations. Parents are encouraged to accompany their son and daughter.

### LODGING AND PARKING

Adequate lodging facilities are available in and near the community at various motels. A list is included in the registration information.

In addition, guest parking permits are included in the registration information packet for use in regular University lots. The Arena parking lot, Student Center lot, and metered stalls on campus are available for campus parking to visitors.

### ORIENTATION: TWO HOURS

Guests are welcome to tour the campus or visit office related to their special needs (housing, financial assistance, etc.). In addition, the Office of Student Development coordinates scheduled orientation programs to help the new or transfer student become more familiar with SIUC each day of advance registration. Through participation at these sessions, students and parents meet with various University faculty and staff depending on the orientation program chosen. A formal orientation program is offered Wednesday through Sunday prior to the start of the fall semester. All students are strongly encouraged to attend. For more information, contact the Office of Student Development (618-453-5714).

### ADVISEMENT AND REGISTRATION: ONE HOUR

A student is advised of requirements and proficiency opportunities, discusses vocational plans and then selects appropriate classes and the times his/her classes will meet.



## COLLEGE UNIT ADVISEMENT CENTERS

Area Code (618)

Agriculture . . . . .	453-3080
Business and Administration . . . . .	536-4431
Center for Basic Skills . . . . .	536-6646
Communication and Fine Arts:	
Art and Design. . . . .	453-4313
Cinema and Photography. . . . .	453-2365
Communication Disorders and Sciences (Dean's Office). . . . .	453-4308
Journalism. . . . .	536-3361
Music . . . . .	536-7505
Radio and Television. . . . .	453-6961
Speech Communication. . . . .	453-2291
Theater . . . . .	453-4308
Education . . . . .	453-2354
Engineering and Technology. . . . .	453-1636
Liberal Arts. . . . .	453-3388
Pre-Major Advisement. . . . .	453-4351
Science . . . . .	536-5537
Social Work . . . . .	453-2243
Technical Careers (see next section)	

### TECHNICAL CAREERS

Advanced Technical Studies. . . . .	453-8898
Architectural Technology. . . . .	453-3734
Automotive Technology . . . . .	453-4024
Aviation Maintenance Technology . . . . .	536-3371
Aviation Management . . . . .	453-8898
Avionics Technology . . . . .	536-3371
Computer Information Processing . . . . .	453-7226
Construction Technology . . . . .	985-4024
Consumer Economics and Family Management. . . . .	453-8898
Dental Technology . . . . .	453-7211
Electronics Management. . . . .	453-8898
Electronics Technology. . . . .	453-7200
Health Care Management. . . . .	453-8898
Interior Design . . . . .	453-3734
Law Enforcement . . . . .	453-7211
Office Systems and Specialties. . . . .	453-7281
Photographic Production Technology. . . . .	453-2454
Tool and Manufacturing Technology . . . . .	985-4024

Note: Person admitted to majors with *selective admissions* will be contacted by their program coordinators concerning Advisement and Registration and should not call for an appointment. These majors are: *Aviation Flight, Commercial Graphics/Design, Dental Hygiene, Mortuary Science and Funeral Service, Physical Therapist Assistant, Radiologic Technology and Respiratory Therapy.*

### PRE-ADVISEMENT MATH ASSESSMENT

All new freshmen, except those admitted to two-year associate degree programs, some transfer students, and those who have never taken a college level mathematics course, must take a math assessment test prior to advisement and registration for classes. These math assessments assist academic advisors in placing students in the proper level of math courses.

All new students will receive information concerning math assessment. Numerous testing dates will be available both on and off campus. Normally, students will contact their academic advisement centers to pre-arrange math assessment and advisement and registration for the same day.

## COSTS

### TUITION AND FEES

Tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions necessitate. All assessments are on a per-hour basis, with 12 hours considered full time. The following proposed fee schedule is for the 1990 Fall Semester.

#### ON-CAMPUS UNDERGRADUATE PROPOSED FEE SCHEDULES

Semester Hours Enrolled	Illinois Residents			Non-Illinois Residents		
	Tuition	Student Fees	Total	Tuition	Student Fees	Total
1	\$ 65.00	\$201.14	\$266.14	\$195.00	\$201.14	\$396.14
2	130.00	218.53	348.53	390.00	218.53	608.53
3	195.00	235.92	430.92	585.00	235.92	820.92
4	260.00	253.31	513.31	780.00	253.31	1033.31
5	325.00	270.70	595.70	975.00	270.70	1245.70
6	390.00	288.09	678.09	1170.00	288.09	1458.09
7	455.00	305.48	760.48	1365.00	305.48	1670.48
8	520.00	322.87	842.87	1560.00	322.87	1882.87
9	585.00	340.26	925.26	1755.00	340.26	2095.26
10	650.00	357.65	1007.65	1950.00	357.65	2307.65
11	715.00	375.04	1090.04	2145.00	375.04	2520.04
12+	780.00	392.65	1172.65	2340.00	392.65	2732.65

All students will pay the full Student Medical Benefit Fee of \$178.50 which will entitle them to full medical benefits at the Health Service. An on-campus student may seek a refund of the Student Medical Benefit Fee within the first three weeks of each semester by contacting the administrative director of the Health Service. The on-campus undergraduate student fee also includes allocations to the Student Medical Benefit Fee, Student Recreation Fee, Athletic Fund Fee, Student Center Fee, Student Activity Fee, Student-to-Student Grant, and Bond Retirement Fee.

The Student-to-Student Grant Program Fee is voluntary. Students may receive a full refund for this fee by requesting such within ten days following initial tuition and fee payment.

**Payment:** Tuition and fees are payable by semester. A student who advance registers receives a Statement of Account and may pay either by mail or in person at the Bursar's Office, by the deadline date specified on the statement. Students who register for classes who do not pay their tuition and fees by the specified deadline will have their registrations cancelled. The University provides students with an opportunity to pay tuition and fees on an installment basis if they choose to do so. There is a nominal service charge for installment payments.

A student holding a valid scholarship is exempt from tuition and fees to the extent prescribed by the scholarship. An Illinois State Scholarship may cover all tuition and fees or it may be a partial award.

**Tuition Costs by Year:** Full-time Illinois residents will pay \$2,345.30 per year for tuition and fees (fall and spring semesters). Full-time out-of-state (non-residents) students will pay \$5,465.30 per year for tuition and fees.

**Total University Charges:** Full-time Illinois residents can expect to pay up to \$2,780.00 per year in housing costs bringing total University charges to approximately \$5,125.30 per year for room and board, tuition and fees. Full-time out-of-state students can expect to pay up to \$2,780.00 per year for housing bringing total University charges to approximately \$8,245.30 per year for tuition and fees, room and board.

**Textbooks:** Students must purchase all textbooks (estimated at \$470.00 per year).

**Personal Expenses:** Includes transportation to and from home, entertainment and personal items estimated at \$1,804.70 per year.

## FINANCIAL ASSISTANCE

The Financial Aid Office aids students in seeking monetary assistance to finance their post-secondary education at Southern Illinois University at Carbondale. Last year, SIUC distributed in excess of \$73 million in financial assistance allowing over 19,500 students to receive financial assistance in the form of grants, scholarships, loans and/or student work.

A package of financial aid is prepared for those students who qualify. The package may include scholarships, grants, work, and loans. The financial aid package offered is contingent upon both the availability of program funds and each student's demonstrated financial need as determined by information supplied on the student's financial aid application.

Grants and scholarships are gift aid which are not repaid to the donor. Loans are repaid after the student leaves school but are offered at a lower than market rate of interest. Student work is offered to all students who desire to earn money while attending SIUC. The amount a student may earn is determined by the amount of other financial aid received.

### MAJOR FINANCIAL AID PROGRAMS

SIUC participates in the major federal, state, and institutionally-funded programs including the Pell Grant, ISAC Monetary Award, Stafford Loan, Perkins Loan, Student-to-Student Grant, Supplemental Educational Opportunity Grant, and the Student Work Program.

The Financial Aid Opportunities brochure summarizes the major types of financial aid coordinated through the Financial Aid Office including a brief description of each program, the application procedures, and the corresponding deadlines. A copy of this brochure is available upon request.

Grants. The major federal grant programs include the Pell Grant and the Supplemental Educational Opportunity Grant. The largest state grant program is the Illinois Student Assistance Commission Monetary Award Program. All of these grants are based on financial need as determined by information supplied on the student's financial aid application.

Scholarships. SIUC distributes several scholarships based on academic achievement to new freshmen and Illinois community college transfer students (associate degree graduates only). These scholarships vary in eligibility requirements and values. Students eligible to receive these awards will be contacted directly by New Student Admission Services.

Recipients of academic scholarships are selected annually by academic units of the University. Also, a limited number of private scholarships are available from each area. More information is available from the appropriate scholarship coordinator within the academic unit.

Students interested in seeking a private grant or scholarship should check as many sources as possible including high schools, local clubs and civic organizations, businesses, church groups, alumni organizations, commercial lending institutions, and public libraries.

Loans. The largest loan programs include the Stafford Loan-SL, the Illinois Higher Education Loan Program-IHELP, the Parent Loan for Undergraduate Students-PLUS, the Supplemental Loan for Students-SLS and the Perkins Loan. To apply for these loans, students should complete and mail a 1991-92 financial aid application. The IHELP, PLUS and SLS loans also require a separate application. Both the Perkins Loan and the Stafford Loan are based on financial need. Since Perkins Loan funds are limited, students should mail their financial aid application before April 1, 1991. The Perkins Loan is borrowed through the school while the Stafford Loan is borrowed through the lending institution.

Employment. SIUC has one of the largest on-campus student employment programs in the country. Students can work up to 20 hours per week at the prevailing minimum wage. Once students arrive on campus, they should review the "Job Listing Board" in the Financial Aid Office to determine which jobs interest them. Referrals will be given to students to interview with prospective on-campus employers. In addition, a representative is available to give referrals for part-time off-campus jobs. Over 5000 student workers were employed by the University last year and approximately 3000 students worked off-campus.

### APPLICATION FOR FINANCIAL ASSISTANCE FOR THE 1991-92 ACADEMIC YEAR

To apply for the financial aid programs coordinated through the SIUC Financial Aid Office, students (and their parents, if applicable) should complete and mail a 1991-92 financial aid application. Since Campus-Based Aid funding is limited and distributed to eligible students on a first-come, first-served basis, students should complete the financial aid application process as early as possible. Priority consideration for Campus-Based Aid will be given to those students who complete and mail their 1991-92 financial aid application before April 1, 1991. At the time of this catalog printing, a decision had not been made on which financial aid application form(s) will be used at SIUC for 1991-92. Students and parents may contact the SIUC Financial Aid Office for that information beginning November, 1990.

**Transfer Students.** Students who have attended another college or university will be classified as transfer students. Transfer students applying for financial aid must have a Financial Aid Transcript sent to the Financial Aid Office indicating all financial aid received from each college or university attended previously. Even though students may not have received financial assistance prior to attending SIUC, federal regulations mandate that the Financial Aid Office have that verification. No aid can be awarded until all Financial Aid Transcripts are received. These forms may be obtained from the Financial Aid Office. Students planning to transfer to SIUC for the spring semester who received a Stafford Loan, Perkins Loan, Supplemental Educational Opportunity Grant or College Work-Study during the fall semester at another institution must reapply for those awards at SIUC by submitting a 1991-92 financial aid application. Students who received an Illinois Higher Education Loan Program-IHELP, a Supplemental Loan for Students-SLS or a Parent Loan for Undergraduate Students-PLUS should contact the Financial Aid Office to determine loan eligibility and application procedures. Transfer students who received the Pell Grant must obtain a duplicate of their Student Aid Report (SAR) to submit to the Financial Aid Office. Transfer students who received an ISAC Monetary Award must change the school name to SIUC. ISAC will recompute and adjust the Monetary Award to reflect the cost of attending SIUC.

**Notification Process:** After mailing their 1991-92 financial aid application, students will be notified regarding their eligibility to receive the Pell Grant, ISAC Monetary Award, SIUC Campus-Based Aid, College Work-Study, and Student Loans. Students will receive a Student Aid Report (SAR) notifying them of their eligibility status for a Pell Grant. Eligible students must submit their SARs to the SIUC Financial Aid Office for processing and payment. Illinois Student Assistance Commission (ISAC) Monetary Award Program will send students a letter notifying them of their eligibility status for the ISAC Monetary Award. Students should retain the letter in their files. The SIUC Financial Aid Office will send a financial aid award offer to students notifying them of their eligibility to receive Campus-Based Aid and/or Student Loans. Students must sign and return this letter to the Financial Aid Office by the date indicated.

**Academic Progress Standards for Financial Assistance.** Southern Illinois University at Carbondale requires that a student be making "satisfactory progress" toward a degree if that student wishes to receive financial aid funds. A student is making "satisfactory progress" toward a degree if successfully meeting two basic academic standards. First, a student must complete a reasonable number of credit hours toward a degree each academic year. Second, a student must maintain a scholastic standing, derived from grades, that allows for continued enrollment at the University under current academic guidelines. A copy of the Policy on Satisfactory Progress is available upon request from the Financial Aid Office.

Students and counselors desiring additional information should contact: Financial Aid Office, Woody Hall, B Wing, Third Floor, Southern Illinois University at Carbondale, Carbondale, IL 62901-4702 or call (618) 453-4334.

**PLEASE NOTE:** At the time of this catalog printing, final rules and regulations for the 1991-92 academic school year were pending. Any changes in federal, state or institutional regulations may affect the information reported. Students are therefore encouraged to contact the Financial Aid Office at a later date for the most current information.



## STUDENT SERVICES

### Career Development Center, 618-536-7528

The Career Development Center provides students the opportunity to explore occupations and develop vocational interests, examine individual skills and potential, and gives assistance in career decision making. Students may also take advantage of an array of career personality inventories designed to assist students in career development or exploration. Career assistance is provided on a one to one basis in addition to groups, workshops or through the use of specially designed computer programs. CDC also maintains a Career Resource Library which houses occupational information on approximately 25,000 occupations.

### University Placement Center, 618-453-2391

The University Placement Center staff provides resources, education and training to enable individuals in their pursuit of professional employment and graduate education. Resume writing services, interviewing opportunities, and job vacancies are provided. The Placement Center makes referrals of registered applicants to employers when the employer indicates to the Center that vacancies exist. A credentials mailing service is provided for vacancies for which employers will not be visiting the campus.

### University Testing Services, 618-536-3303

Testing Services is a regional center offering undergraduate and graduate admission, technical, professional and certification examinations. Tests such as the ACT, SAT, GRE, LSAT, MCAT, Miller Analogies Tests, etc., are offered on a regular basis. Local placement and academic proficiency tests and National CLEP examinations are also available. These programs insure proper class placement of entering students and provide academically talented students with the opportunity to receive college level credit for material already mastered. In addition, general educational development tests for area adults who have not completed high school, and licensure and competency programs required by the state of Illinois and professional associations are offered as a service to candidates. Registration forms and information brochures, many containing sample tests allowing candidates to become familiar with test content and emphasis, are available from Testing Services.

### Counseling Center, 618-453-5371

The Counseling Center is staffed with professional psychologists and counselors qualified to assist students with personal development issues and to resolve emotional problems. Personal problems, relationship adjustment difficulties, family conflict, and sex role awareness development are areas of frequent concern to students. Individual, couple and group counseling as well as crisis intervention are provided within an atmosphere of confidentiality and trust. In addition, personal development group programs are available to assist students in such areas as social skill development, assertiveness, drug and alcohol abuse, managing anger, survivors of incest and sexual abuse, eating behaviors, adult children of alcoholics, and others. Students may receive twelve sessions of counseling or therapy at no charge.

### Women's Services, 618-453-3655

The purposes of the Office of Women's Services, a component of the Counseling Center, is to maximize the opportunities and experiences of women who choose to attend SIUC. One of the most important functions of the office is to facilitate personal growth that can result in assisting women in recognizing and developing their potential for success--both during and after college. The services fall into six categories: 1) a clearinghouse for resources and referral information; 2) development and implementation of outreach programming (i.e., workshops, seminars, groups, lectures) on topics relevant to women; 3) consultation for other services that are working with women in the University and community; 4) advocacy and support for women students, including providing programs designed specifically to assist adult women students who are returning to school or who are furthering their education; 5) coordinating the Campus Safety Program, which includes Women's Safety Transit and women's self defense classes; and 6) library services which make available many books and articles on women's issues not found elsewhere on campus.

### Non-Traditional Student Services, 618-453-2829

Non-Traditional Student Services assists and serves non-traditional students--those who are 24 or older, married, have dependents, are enrolled part-time or who have been away from formal education for some time. Increasing the awareness and response within the University community to the unique needs and circumstances of non-traditional students is a primary concern of this office. The staff provides assistance, information, support, and referral to other University and community programs and services to help non-traditional students obtain the maximum benefits from their university education.

### Disabled Student Services, 618-453-5738 (Voice or TDD)

This office coordinates and provides support services to disabled students including those who are non-ambulatory, semi-ambulatory, visually impaired, hearing impaired, learning disabled, or otherwise permanently disabled. A wide range of services are offered by SIUC including:

academic support services, handicapped van transportation, other transportation and parking arrangements, modified housing, adapted recreational activities, wheelchair repair, and personal attendant referrals. The academic support services include: test proctoring services for students needing additional time or reading or writing assistance to complete regular course exams; pre-admission planning for support services; readers; tutors; taped texts; equipment loan; campus orientation for the visually impaired; notetakers and interpreters. The Illinois Department of Rehabilitation Services (IDORS) maintains an on-campus office, and the DSS office works closely with IDORS to facilitate admission and enrollment of disabled students sponsored by IDORS. The SIUC campus is fully accessible, and all programs, services, and activities are available to disabled students. The disabled individual applies for admission in the same manner as any other applicant. The nature or severity of disability have no bearing on the admission determination. Interested disabled persons are strongly encouraged to formally apply for admission as far in advance of the semester starting date as possible in order that all necessary support services, financial assistance, special equipment, and housing arrangements may be arranged appropriately and in a timely manner.

Clinical Center Achieve Program, 618-453-2595

The Clinical Center Achieve Program is an academic support program for learning disabled students enrolled at SIUC. The program is self-supportive and participation is voluntary. Students in the Achieve Program are completely mainstreamed into the regular college curricula and campus life. Participation is strictly confidential. The academic support provided by the Achieve Program is three-fold: 1) tutorial, 2) compensatory, and 3) remedial.

1. Achieve members are matched to tutors based on academic strengths/weaknesses and individual course selections.
2. Achieve members are provided with taped textbooks from Recordings for the Blind or from readers hired by the program if their disability is in the area of reading. They are also given the opportunity to take their exams with a proctor at the Achieve Office. Proctored exams may be orally administered or simply untimed depending upon the needs of the individual student. The Achieve Program hires and assigns notetakers to go into classes and take notes for our members who demonstrate deficits in this area. Each member is assigned to a graduate student/supervisor who monitors their progress and intervenes/counsels whenever problems arise.
3. Remedial courses are also available for those needing and desiring to improve their deficit areas. These include: 1) a developmental writing course which is offered and mandatory for students who need remedial work in composition, 2) reading comprehension strategies, 3) notetaking/listening skills, 4) organization and time management, and 5) math remediation. Need is based on the results of the Achieve evaluation and participation in remediation is not mandatory for all members each semester. Participation may vary from semester to semester depending upon the student's personal schedule and course load.

Students interested in participation in the Achieve Program must apply to the University as well as to the Achieve Program. Early application (sophomore-junior year in high school) is highly recommended based on the large number of excess applications received each year. Requests for information/applications should be addressed to: Clinical Center Achieve Program, Baptist Student Center, Wing D, SIUC, Carbondale, IL 62901. Requests can also be made by calling (618) 453-2595.

The following fees are based on the 1989-90 academic year and are subject to change.

Application fee:	\$ 50.00 (one time fee/non-refundable)
Diagnostic fee:	\$ 500.00 "
	\$ 550.00
*Fees for academic support:	\$1500.00 (1989 fall semester)
	\$1500.00 (1990 spring semester)
	\$3000.00

\* Half-time support is available following the first year of participation. Half-time support includes all services except members must decide between either notetakers or tutors. Fees for half-time support are half the amount of full-time membership.

Support fees are refundable anytime prior to the beginning of the semester. Fee waivers are available to those students who qualify. Application for a fee waiver is made the summer prior to entry into the University and the program.

Center for English as a Second Language, 618-453-2265, FAX 618-453-6927

The Center for English as a Second Language offers English language training to non-native speakers of the language. The program runs year round and is a part of the Department of Linguistics, an academic unit of the College of Liberal Arts. The students studying at the Center plan in most cases to enter academic programs at the graduate or undergraduate level upon completion of their training. The attendance of approximately 100 students every term from a wide variety of cultures adds a significant international presence to the campus. Opportunities are provided for American students to meet with CESL students as a means of enriching their stay at Southern Illinois University at Carbondale.



## STUDENT ACTIVITIES

Student Development (618-453-5714) promotes individual student growth and personal achievement through a wide range of programs and services intentionally designed to complement and enhance the student's educational experience. Units of Student Development include: Student Orientation Programs, First Year Experience Programs, and Center of Student Involvement.

**Student Orientation Programs.** Student Development provides a comprehensive orientation program for new students and their parents through the Student Orientation Programs Office. These programs are designed to assist students in making a smooth transition into the University community and to introduce both new students and their parents to the University's vast resources, programs and services. Orientation sessions are offered prior to the beginning of each semester and on new student advisement and registration days. Specially trained upperclassmen, known as Student Life Advisers (SLAs), serve as orientation peer advisers to help the new student learn about the campus and its services. The Student Orientation Committee is available year round to assist students.

**It's MAGIC.** Project MAGIC (Maximize Academic Growth in College) is one of three in a series of First Year Experience programs designed as a general advisement program for new students. The purpose of the program is to help new students derive the greatest possible benefit from the people, programs, and facilities at the University. This is accomplished by providing interested new students with the opportunity to develop a friendly and helpful relationship with a member of the university faculty or staff, a mentor, who can assist the new student in developing career and academic goals, in learning how to maximize the educational opportunities available at the University, and in becoming acclimated to college life.

**Project STEP (Success through Experienced Peers).** Project STEP, one of three in a series of First Year Experience programs is a peer mentoring program for new students. The purpose of the program is to help prepare new students for success at the University by providing interested new students with the opportunity to develop a friendly and informal mentoring relationship with an experienced SIUC student. Trained volunteer peer mentors help new students become acclimated to college life, develop academic and career goals, and learn about involvement and leadership opportunities at the University.

**Project AHEAD (A Humanistic Educational Approach to Development).** Project AHEAD, one of three in a series of First Year Experience programs, in cooperation with the Department of Sociology, provides an academic course for first semester students at the University specifically designed to help prepare students for success in college. The course uses an experiential mode of learning activities and group discussions pertaining to the first-year experience. Topics for discussion focus on factors and issues associated with successful adjustment in college and academic achievement. Students learn valuable tips on study skills, communication skills, reading skills, time management techniques, and testing skills.

**Registered Student Organizations.** Over 380 registered student organizations offer opportunities for student involvement, student leadership and development, and experiential learning. A core of over 400 volunteer faculty/staff advisers along with the professional staff of the Center of Student Involvement provide direction and consultation with the student organizations in the areas of fiscal management, organizational management, and University policies and procedures. The office also provides a variety of services designed especially for the organizations: membership referrals, student organization directories, leadership development workshops, equipment checkout services, copy duplicating service, mailbox service, and programming resource library. Included among the organizations are student governmental groups, coordinating councils, public interest groups, fraternities and sororities, publication and media groups, scholastic and professional honoraries, departmental clubs, special interest groups, religious organizations, and sports and recreation clubs.

**Black Affairs Council (BAC).** The Black Affairs Council serves as the coordinating and governmental body for the 17 Black student organizations on campus. BAC assumes a major responsibility for programming social, cultural, and educational programs for Black students at SIUC.

**Inter-Greek Council (IGC).** The Inter-Greek Council is the activity coordinating council for the University's 17 social fraternities and 9 social sororities. Sub-councils include the Inter-Fraternity, Panhellenic Council, and Pan-Hellenic Council. The SIUC Greek System promotes leadership, scholarship, and service, offering students an opportunity to enhance their University experience. Rush, or membership recruitment, is sponsored at the beginning of fall and spring semesters, as well as at designated times throughout the year.

**The Leadership Center (TLC).** The Leadership Center is a component of the Center of Student Leadership Development Resource Center for Individual Students and SIUC's 380 plus registered student organizations. TLC also serves as a clearinghouse to coordinate student volunteer interests with the needs of community service organizations.

**Leadership Education and Development (LEAD).** The Center of Student Involvement sponsors a leadership development series designed to provide students with activities and experiences that enhance their leadership skills and student involvement on the campus. Workshops and special topic seminars are offered in such areas as group process, organizational management, leadership techniques, communication skills, and fiscal management. One unique program for

EMERGING LEADERS is especially designed to assist minority students in developing their full potential both as scholars and as citizens. Students who participate in the program are provided opportunities to become active learners through active involvement on the campus.

Mobilization of Volunteer Effort (MOVE). Mobilization of Volunteer Effort promotes student involvement and community service learning activities in the University and community through a series of student volunteer outreach programs in such areas as child care, senior citizens programs, recreation and youth activities, crisis intervention, and tutorial assistance. Special projects include the United Way campaign and coordination of the Red Cross Blood Drive, among others. MOVE also serves as a clearinghouse for student organizations which promote service and need assistance with a volunteer project or special event.

Student Publications. Special opportunities are available for students who have an interest in the areas of media and publications. These include serving as an editor, photographer, artist or writer for the Monolith new student record book; the "Five O'Clock News," a periodic publication of the Black Affairs Council which features news and event information of special interest to Black students; "Insight," an award-winning newsletter published especially for members of the SIUC Parents Association; "Visor Vision," a periodic newsletter of particular interest Student Life Advisors involved in orientation activities; "Columns," a periodic publication directed toward the interests of fraternity and sorority members; "Southern Portrait," a monthly newsletter devoted to special features and items of particular interest to student leaders and members of registered student organizations; and "Rainbow Connection," a weekly newsletter for parents of children enrolled at Rainbow's End child development center.

Credit for Involvement. In cooperation with various academic units, the Center of Student Involvement provides opportunities for students to receive academic credit for their participation in student activities and student organizations. Opportunities available include leadership development courses for fraternity and sorority members, community service-learning programs for MOVE volunteers, leadership development seminars for orientation Student Life Advisors, and undergraduate and graduate internships in such areas as student development, early childhood education and media and publications.

SIUC Parents Association. Open to all parents of SIUC students, the SIUC Parents Association provides opportunities for parents to become better informed and actively involved with their student's education and University experiences. The nominal annual family membership fee entitles parents to periodic newsletters, special event programs, and a number of University and community discounts.

Rainbow's End. Rainbow's End is a comprehensive child development center designed to serve the children, ages six weeks to ten years, of SIUC students, faculty, and staff members. The center, which is staffed by qualified professionals, is licensed by the Illinois Department of Children and Family Services, is a participant in the State of Illinois Child Care Food Program and serves as a replication site in an international research project through the Warner Institute for Childhood Creativity at California State University at Northridge. Special features of Rainbow's End include a range of full and part time day care options. The assessment of tuition and fees is based upon the number of hours for which a child is enrolled and there are reduced fees for student parents. Rainbow's End is open from 7:30 a.m. to 5:30 p.m. each day the University is in session. Rainbow's End is located at Lakeland School, 925 South Giant City Road in Carbondale, telephone 453-6358.

Touch of Nature, (618-453-1121).

Southern Illinois University at Carbondale is home to a unique center for outdoor, environmental, and experiential learning. Known as the Touch of Nature Environmental Center, it is one of the three major centers of its type in the United States and is highly respected throughout North America for innovative programs that emphasize both natural and human resources. SIUC is the first University in the United States to use nature and the out-of-doors as extensions of the classroom. Touch of Nature offers a wide variety of credit and non-credit educational and service opportunities for individual students. Education and recreation for the people of Illinois and the nation is provided through a balance of public service, institutional support, service to students, instruction, and research. The Center serves as a field site for the departments of plant biology, forestry, recreation, special education, rehabilitation, zoology and administration of justice, to name a few. Internship and practicum opportunities for academic credit are available for undergraduate and graduate students. Paid practical work positions are also available. Touch of Nature is located eight miles southeast of the main campus in the rolling hills of Southern Illinois. Its 3,100 acres are bordered by a 700 acre lake, Giant City State Park, and the Crab Orchard National Wildlife Refuge as well as the Shawnee National Forest.

Office of Intramural-Recreational Sports, (618-536-5531).

The Office of Intramural-Recreational Sports is available to provide students, faculty, staff, alumni, their families and guests with a wide variety of interesting and enjoyable recreational activities. Included in these activities are over 60 intramural sports programs, 30 sport clubs, and numerous informal programs such as basketball, swimming, tennis, racquetball, badminton, boating, weight training, dancercise, etc. In addition, a recreational information center (LES) and an outdoor recreational equipment rental program are available in the Student Recreation Center.



## INTERCOLLEGIATE ATHLETICS

### General Information

Southern Illinois University at Carbondale continues to boast one of the country's best all-around sports programs for men and women. The Salukis compete within Division I of the National Collegiate Athletics Association (NCAA) in all but one sport. In football, SIUC holds Division I-AA status.

Long known for its well-balanced program, and particularly so for sports such as baseball, track and field, and swimming, SIUC's basketball and football programs have also established strong traditions. In 1983, the Salukis claimed the NCAA Division I-AA national football championship and in 1967 claimed the National Invitation Tournament basketball title.

Many former Salukis have distinguished themselves in almost all sports, most notable is Walt Frazier who led SIUC to its NIT title in 1967. Others include Jim Hart, third-ranking passer in NFL history who is now the Salukis Athletic Director; Dave Stieb, Toronto Blue Jays' pitching ace and a starter in both the 1983 and 1984 All-Star games; current NFL stars wide receiver Kevin House with Los Angeles and defensive back Terry Taylor with Seattle; world-class 400-meter champion Michael Franks; national gymnastic champion Brian Babcock and others.

SIUC was well represented at the 1988 Olympics as two coaches and six athletes participated in the games.

### Academic Excellence

Paralleling SIUC's athletic success has been an outstanding academic record on the part of student athletes. Thirty-six percent (36%) of students athletes earned term or cumulative grade point averages of 3.0 or above in the fall of 1988. SIUC has led the Gateway Conference for four consecutive years in the number of student athletes who earned President's All Academic Awards. In 1987, two student athletes received GTE Academic All-American Awards, and in 1988, still another two Salukis received the award. Since 1983, eight SIUC student athletes have been named Academic All-Americans.

### Baseball

Under the leadership of Richard "Itchy" Jones, the baseball team has been to the College World Series on three occasions and to the NCAA Tournament nine times. The Salukis have won the Missouri Valley Conference five times and have had seventeen players in the major leagues.

### Basketball

Men: In 1988-89, the team posted a 20 win season and lost in the finals of the Missouri Valley Conference Championships. As a reward for their outstanding season, the Salukis were extended a bid to the NIT Post Season Tournament. They followed that in 1989-90 with another 20-plus win season--their first back-to-back 20-win performance since turning NCAA I.

Women: The Saluki women compiled four straight twenty-plus win seasons, received two consecutive NCAA bids and won back-to-back Gateway Conference Championships before relinquishing the title in 1987-88. The Salukis finished 1988-89 with a 19-12 record after losing in the finals of the Gateway Conference Tournament.

### Cross Country and Track

Men: The traditionally strong men's team has captured 21 of 26 Missouri Valley Conference (MVC) Track and Field Championships since 1976. In addition, the cross country teams have won six MVC championships and have had ten All-Americans.

Women: The SIUC Women's Track and Field team has won three consecutive Gateway titles in indoor track and are favored to win a fourth straight outdoor track title in 1988. Both teams will benefit greatly from the new track at McAndrew Stadium.

### Football

Under head coach Bob Smith, the football Salukis continue to carry on the tradition of fielding one of the stronger teams in Division I-AA. Smith came to SIUC from the University of Illinois and was previously head coach at Southeast Missouri State.

### Golf

Men: Former track and field coach Lew Hartzog is in the process of building a successful golf program similar to that which he engineered in track and field at SIUC.

Women: The Salukis are among the strongest teams in the midwest, and have been Gateway Conference Champions in two of the last five years.

### Swimming and Diving

Men: The men's team has been in the NCAA top 20 for 27 of the past 28 years. In 1989-90, the Salukis were ranked as high as 12th in the country. Head coach, Doug Ingram is chairman of the U.S. Olympic Swimming Committee and was sports chief delegate at the 1988 Olympics.

Women: The women's team has finished in the top ten at the NCAA Nationals in four of the past seven years. Always one of the top teams academically, five swimmers were named Academic All-Americans in 1987 by the College Swimming Coaches Association of America.

### Tennis

Men: Coach Dick LeFevre has amassed over 400 wins in his 33 years as head coach at SIUC. His teams have finished in the NCAA Top 20 on four occasions and in the Top 10 once.

Women: The traditionally strong women's team won the Gateway Conference Championships in 1983 and 1985.

### Volleyball

SIUC lost in the semi-finals of the Gateway Conference Tournament and finished the season tied for third in the conference. Senior Beth Winsett was named GTE/COIDA Academic All-American for the second straight year after posting a perfect 4.0 grade point average in chemistry. New coach Patti Hagemeyer came to SIUC from Notre Dame where her efforts turned the Irish into a Midwest volleyball powerhouse.

### Men's Coaches

Baseball:	Richard Jones
Basketball:	Rich Herrin
Cross-Country:	Bill Cornell
Diving:	Dave Ardrey
Football:	Bob Smith
Golf:	Lew Hartzog
Swimming:	Doug Ingram
Tennis:	Dick LeFevre
Track:	Bill Cornell

### Women's Coaches

Basketball:	Cindy Scott
Cross Country:	Don DeNoon
Diving:	Dave Ardrey
Golf:	Diane Daugherty
Softball:	Kay Brechtelsbauer
Swimming:	Doug Ingram
Tennis:	Judy Auld
Track & Field:	Don DeNoon
Volleyball:	Patti Hagemeyer

Athletic scholarships are awarded in all sports. Applicants interested in obtaining more information on athletic scholarships are encouraged to contact the coach of the respective sport.

### Men's Coaches

Telephone: 618-453-5311  
Football Office: 618-453-3331  
Locations: SIU Arena

### Women's Coaches

Telephone: 618-536-5566  
Location: Davies Gym

## MOTOR VEHICLES AND BICYCLES

### REGISTRATION

All motor vehicles (and bicycles) operated on campus must be registered with the University Parking Division. An eligible student may register only his or her own vehicle or a vehicle of a member of his or her immediate family. Only eligible students may park on campus.

### ELIGIBILITY

Graduate students and the following categories of undergraduate students may apply for permission to use, operate, park, or possess a motor vehicle on campus during posted hours.

- 1) Juniors and seniors (56 credit hours or more).
- 2) Veterans with two years of military service.
- 3) Married students.
- 4) Students residing in the home of parents and guardian.
- 5) A student who requires a motor vehicle for reasons of health or physical condition as certified in writing by Specialized Student Services.
- 6) A student not covered by 1 through 5 preceding whose reason for requiring a motor vehicle is judged valid by the Coordinator of Parking and Traffic or a designee and so certified in writing.

### APPLICATION AND FEE

Each applicant must bring to the Parking Division the following four items: 1) a valid operator's license, 2) vehicle registration card or notarized license-applied-for receipt, 3) proof of liability insurance, and 4) a current University identification card. Dealer license plates are not acceptable for motor vehicle registration. If a parking decal is purchased, a fee is charged and is determined by the type of decal an applicant is eligible for and receives, currently \$2-\$10. Yellow registration decals will be issued for \$2.00 upon proper application.

NOTE: Decals issued, according to color, indicate the nature of any parking privileges permitted the holder.

All decals are valid until September 1, or until revocation or loss of eligibility. The extent of the motor vehicle privilege granted to any person shall be based on need or advanced academic standing, in general accordance with the following criteria:

1. First opportunity to obtain blue decals (\$30) will be granted to full-time employees and to students whose health or physical condition require the privileges thereof. Handicapped students will be assessed \$10 for the blue decal.
2. All employees and students eligible in accordance with any of the categories mentioned under ELIGIBILITY may apply for red decals (\$10).
3. A yellow decal serves as evidence of the proper registration of a motor vehicle by an eligible student. It authorizes parking on campus in lots 24 (Campus Lake), 56 (Arena), and at some Student Center meters during the posted hours.
4. Green storage permits will be available to students residing on campus who receive exceptions to park on the campus from the Office of Student Development. These permits will be valid only in parking lots 23, 59, 100 and 106. They will not be valid in other parking areas on campus including loading zones and parking meters.
5. Temporary permits may be issued in unusual circumstances, and can be obtained from the Parking Division Office.
6. Guest permits are available to University visitors and offices, guests of University housing residents and guests of the Baptist Student Center free of charge.
7. 24-hour parking is available the FIRST FIVE DAYS of any term ONLY in lots 56, 59, 100 and 106. Until a parking decal is purchased, DO NOT park in any other area or you will be ticketed.
8. Bicycle decals will be issued for a \$2.00 fee upon application.

For additional information or parking brochure, contact:

University Parking Division  
Washington Square Building D  
Southern Illinois University at Carbondale  
Carbondale, IL 62901  
Phone: 618-453-5369



## UNIVERSITY RECOGNITION OF HIGH SCHOLASTIC ACHIEVEMENT

Dean's List. At the end of each semester, a dean's list is prepared. The criteria for inclusion on the dean's list are established by each of the academic units. To be recognized as being on the dean's list, the student must have been in attendance full-time (12 semester hours or more) and must have earned the average for the semester which has been specified by the academic unit. If the student has met the criteria established, a notation will appear on the grade slip at the end of the semester. The dean's list is recognition for a particular semester. It does not take into consideration the student's complete record.

University Honors Program. The University Honors Program is explained elsewhere in this chapter. Those who successfully complete the University Honors Program receive recognition on the academic record and on the diploma at the time the degree is recorded.

Department Honors. Honors courses, individual honors work, and honors curricula, all designed to serve the student with high scholastic potential, are offered by departments in the College of Agriculture, the College of Human Resources, the College of Liberal Arts, and the College of Science. A departmental or academic unit honors program consists of no fewer than six nor more than fourteen semester hours in research or independent study which is counted toward the student's major. Some honors programs require a comprehensive examination at the end of the junior year and again at the end of the first semester, but not from one school year to the next. Successful completion of a departmental or academic unit honors program is indicated on the academic record at the time the degree is recorded and on the diploma, thus, departmental honors in economics.

Scholastic Honors Day. Each spring a Scholastic Honors Day convocation is held to honor students exhibiting high scholastic achievement. All students who have maintained a cumulative grade point average of 3.50 or higher, and who have been full time students during the entire academic year, are honored at this time. A 3.50 grade point average is required for all work taken at Southern Illinois University at Carbondale, and in the case of transfer students, the cumulative average must be at least 3.50, also. Each academic unit has its own convocation and each student is recognized individually on this day.

A variety of professional, departmental, and fraternal honorary organizations offer recognition and membership based upon scholastic achievement. Election or selection to most of these organizations is noted at the Scholastic Honors Day ceremonies. The following are examples of some of these organizations: Alpha Epsilon Rho, Alpha Lambda Delta, Beta Alpha Psi, Beta Gamma Sigma, Kappa Omicron Phi, Pi Mu Epsilon, Pi Omega Pi, Tau Beta Pi, the Liberal Arts and Sciences Honors Society, and the Honor Society of Phi Kappa Phi. Selection to membership in these organizations is not reflected on the academic record or diploma.

University Honors/Departmental Honors Recognition at the Time of Graduation. Graduating students with scholastic averages of 3.90 or higher receive the notation Magna Cum Laude; those with 3.75-3.89 receive Summa Cum Laude; and those with 3.50-3.74 receive Cum Laude. These averages apply to all work at Southern Illinois University at Carbondale, and in the case of transfer students, the averages apply to the cumulative record, also. Whichever of the University Honors apply, plus graduation with departmental honors, are recorded on the student's academic record at the time the degree is recorded and on the diploma.

### PROGRAM FLEXIBILITY FOR THE STUDENT

Southern Illinois University at Carbondale offers students a wide variety of programs on all higher educational levels. In addition, the University gives constant attention to methods whereby it might better serve present day educational needs. Described below are opportunities provided students to either earn credit through means other than the traditional classroom method or develop programs better suited to individual student needs than already established programs. While greater flexibility is the goal, the University exercises appropriate supervision to ensure that flexibility is accompanied by educational soundness.

### CREDIT BY MEANS OTHER THAN CLASSROOM ATTENDANCE

Several methods are provided for students to earn credit by means other than the traditional classroom method. The methods currently available are described below.

#### HIGH SCHOOL ADVANCED PLACEMENT PROGRAM

Through the High School Advanced Placement Program, high school students who are qualified through registration in an advanced placement course in their high schools or through other special educational experiences such as Advanced Placement Tests, may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board. To receive credit, students must earn a grade of 3, 4, or 5. The credit awarded will be recorded after 12 hours of credit in residence from SIUC is achieved.

Ordinarily, the maximum credit granted through advanced placement examination is fifteen hours. It is nonresident credit, does not carry a grade, and is not used in computing the students' averages. Credit granted at another accredited college or university under this plan is transferable to this University up to a maximum of fifteen hours. Students may appeal to academic deans to be granted more than fifteen hours.



The following courses are those in which a student may currently earn credit through the Advanced Placement Examination of the College of Entrance Examination Board:

1. Physics: GEA 101 (3 sem. hrs.)
2. Chemistry: Chemistry 222A (4 sem. hrs.) and 222B (4 sem. hrs.)
3. Computer Science: Computer Science A: Computer Science 202 (3 sem. hrs.)  
Computer Science AB: Computer Science 202 (3 sem. hrs.) and Computer Science 220 (3 sem. hrs.)
4. Biology: GEA 115 (3 sem. hrs.)
5. History: American - GEB 300 (3 sem. hrs.) and GEB 301 (3 sem. hrs.)
6. English: Language and Composition: GED 101 (3 sem. hrs.)  
If score is '5', then GED 120 (3 sem. hrs.)  
Literature and Composition: GEC 122 (3 sem. hrs.)
7. Foreign Languages: Consult chairperson, Department of Foreign Languages and Literatures
8. Mathematics: Calculus AB: Mathematics 150 (4 sem. hrs.) Calculus BC: Mathematics 150 & 250 (8 sem. hrs.)
9. Music: Consult Director, School of Music
10. Art: Consult Director, School of Art and Design
11. European History: History 205A and B (6 sem. hrs.)
12. American Government and Politics: GEB 114 (3 sem. hrs.)
13. Comparative Politics: GEB 250 (3 sem. hrs.)

#### COLLEGE LEVEL EXAMINATION PROGRAM

Through the General Examinations of the College Level Examination Program (CLEP), students may apply for credit which will substitute for General Education courses. With a score of 520 or higher on the appropriate examination, it is possible for students to receive six semester hours of credit in each of the three fields of natural sciences, social sciences and history, and humanities.

A score of 580 or higher is required to pass the mathematics test. With this score, students may earn four hours of credit which will fulfill the General Education mathematics requirement.

For those who test through April, 1986. With a score of 650 or higher on the CLEP English examination, students are permitted to take GED 120, Freshman Honors Composition (three semester hours), instead of GED 101 and GED 102 (six semester hours). A student who scores 675 or above on the CLEP English examination will receive six semester hours credit (three semester hours GED 101 and three semester hours GED 102). A score of 650 to 674 entitles the student to receive a) advanced placement in GED 120, Freshman Honors Composition, and b) six semester hours credit upon the satisfactory completion of GED 120 with a grade of 'C' or higher (three semester hours GED 120 and three semester hours GED 102).

For those who test from May, 1986 through May, 1989. With a score of 540 or higher on the CLEP English examination, students are permitted to take GED 120, Freshman Honors Composition, instead of GED 101 and GED 102. A student who scores 565 or above on the CLEP English examination will receive six semester hours credit. A score of 540 to 564 entitles the student to receive a) advanced placement in GED 120, Freshman Honors Composition, and b) six semester hours credit upon the satisfactory completion of GED 120 with a grade of 'C' or higher (three semester hours of GED 120 and three semester hours of GED 102).

For those who test after May, 1989. Beginning June, 1989, the CLEP English Composition with Essay Examination will be required. With a score of 565 or above on the CLEP English Composition with Essay Examination, the student will receive six semester hours credit. A score of 540 to 564 entitles the student to receive a) advanced placement in GED 120, Freshman Honors Composition, and b) six semester hours of credit upon successful completion of GED 120 with a grade of 'C' or higher (three semester hours of GED 120 and three semester hours of GED 102).

If, prior to taking the CLEP examination, students have received a grade or audit in college level work in any discipline included in the CLEP exam or if they have enrolled in such a course, they shall be ineligible for credit. An exception to this rule is made in the case of students who enroll in the Early Admission Program. Such students receive university credit for courses taken during the Early Admission experience and for the CLEP credit earned.

The science exam includes botany, microbiology, physiology, zoology, chemistry, physics, earth science, geography, and all General Education Area A courses. The social sciences and history, exam includes western civilization, American history, Afro-Asian civilization, world history, political science, economics, anthropology, sociology, social psychology, social studies, and all General Education Area B courses. The humanities exam includes literature--poetry, fiction, drama, non-fiction, creative writing, films and performing arts; art--art appreciation, art history, architecture (past and present); music--classical, modern or jazz, humanities--all general humanities courses; all General Education Area C courses; philosophy--aesthetics, ethics, general survey. The mathematics test includes all college-level mathematics.

Students may be exempted from all General Education requirements if they 1) pass all five CLEP General Examinations before entering the University with these minimum scores; natural sciences, social sciences, and humanities, 520; English 565; and mathematics, 580, and 2) complete all requirements of the University Honors Program. No retroactive extension of the CLEP privilege will be allowed.

For further information, students should consult with their academic advisor. CLEP examinations should be taken at one of the national testing centers and the results sent to the local CLEP coordinator. The results are then forwarded to the Office of Admissions and Records for evaluation. CLEP credit will be recorded after the student has earned 12 hours of 'C' grade or above in residence at SIUC.

#### PROFICIENCY EXAMINATIONS

Through its proficiency examination program the University recognizes the importance of providing encouragement for academically talented students. Such students are permitted to make application to demonstrate the mastery of certain courses through proficiency examinations. Application forms are available at the departmental offices.

The following general rules govern the proficiency examinations for undergraduate credit.

1. Students who believe they are qualified to take a proficiency examination should check with the department offering the course to determine their eligibility to do so; students scoring in the top ten percent of ACT are particularly encouraged to avail themselves of this opportunity.
2. Credit not to exceed thirty hours (fifteen hours toward an associate degree), including credit through the College of Entrance Examination Board, Advanced Placement Program, and the College Level Examination Program may be earned through proficiency examinations. Credit will be nonresident. (A combined total of 40 hours may be earned through proficiency examinations and credit for work experience.)
3. Upon passing proficiency examinations students are granted course credit and receive a Pass grade. Their records will show the name of the course, the hours of credit granted, and a notation "credit granted by proficiency examination." Students who fail a proficiency examination receive a Fail grade. This results in no penalty to the students. They will not receive credit and their records will show nothing regarding the proficiency examination. However, the proficiency examination grade report form will be filed in the students' folders for reference purposes.
4. Students may not take proficiency examinations for the same course more than one time. Nor may they take a proficiency examination in a course in which they have previously received a grade.
5. No credit granted by proficiency examinations will be recorded until the student has earned at least 12 hours of credit of 'C' grade or above in residence at Southern Illinois University at Carbondale.

#### CREDIT FOR WORK EXPERIENCE

Work experience in the form of internships or student teaching is a common instructional technique. Southern Illinois University at Carbondale also permits certain undergraduate programs to grant credit for work experience that relates to students' areas of specialization. The credit granted is to apply to the major program and is awarded only upon approval by the major department. Credit earned by work experience is limited to 30 hours and any combination of credit for proficiency examinations and credit for work experience is limited to 40 hours. Credit granted for work experience is considered nonresident credit when granted for work that is not part of a regular instructional course. Students should consult with their major departments to see whether they approve credit for work experience. Credit for work experience will be recorded after 12 hours of 'C' grade or above has been achieved in residence at SIUC.

## SPECIAL PROGRAMS

### THREE-YEAR BACCALAUREATE DEGREE PROGRAM

It is possible for students to complete the regular four-year baccalaureate degree program in three years by utilizing proficiency examinations. The equivalent of one year of credit (30 semester hours) may be earned by this method. Students who desire to follow the three-year program should make the fact known to their academic advisors at the earliest possible date so their eligibility can be determined. A combination of programs may be employed to accumulate these 30 hours as described above in the section on Credit by Means Other than Classroom Attendance.

### COOPERATIVE EDUCATION/INTERNSHIPS

Cooperative Education Services are offered through the University Placement Center. Cooperative Education is an optional educational pattern that provides an opportunity for students to alternate periods of academic study with periods of off-campus employment related to the student's academic majors or career goals. Periods should be of sufficient duration to provide meaningful classroom and off-campus experiences. Cooperative education provides students an opportunity to earn funds that may be needed to support and complete their education, while it gives them off-campus experiences that are closely integrated with and that enrich their total education. SIUC presently has arrangements with several employing organizations, the majority in engineering, business, agriculture and technical careers.

### UNIVERSITY HONORS PROGRAM

The University Honors Program is located administratively in the College of Liberal Arts. University Honors is a University-wide undergraduate program designed to offer unique educational experiences to participating students. The program includes making available special sections of certain classes, special seminars, and independent study. Some special scholarships and internships are available to University Honors students.

Membership in the University Honors Program is currently granted to entering freshmen who apply for membership with an ACT composite score in the 95th percentile or higher. Membership may be granted to other than entering freshmen who apply for membership and who have a cumulative grade point average of 3.25.

Members of the University Honors Program are designated as University Honors Students. Retention in the University Honors Program depends upon maintaining a 3.25 cumulative grade point average in all coursework and no failing grades in honors courses.

In order to receive the designation "University Honors Program" on a diploma and transcript at graduation, an honors student must complete 15 hours of honors coursework (nine hours for two-year College of Technical Careers students, Capstone students, and transfer students with an associate degree) including a three-hour senior honors thesis or project.

University Honors students may substitute a University Honors seminar in General Education Areas A, B, C and E for their General Education requirements in those specific areas, e.g., UHON 351a for GEA, UHON 351b for GEB, etc.

University Honors students may be exempted from all General Education requirements if they 1) pass all five CLEP General Examinations before entering the University with these minimum scores: natural sciences, social sciences, and humanities, 520; English 565; and mathematics, 580; and 2) complete the fifteen-hour Honors Program graduation option (nine hours for two-year students and transfers with an associate degree). No retroactive extension of the CLEP privilege will be allowed.

Baccalaureate degrees for University Honors students are awarded through the regular degree-granting units. Those who successfully complete the University Honors Program graduation option receive recognition on the academic record and on the diploma at the time the degree is recorded.

Inquiries about the program should be addressed to the Director of the University Honors Program, Faner Hall 2427, (618) 453-2824.

### UNIVERSITY STUDIES DEGREE PROGRAM

The University Studies Program provides the student with another option for earning a baccalaureate degree. The program is intended for the student who wants a broad, general education and does not wish to specialize on the undergraduate level. In fact, the program was proposed to serve the many students who express the desire to receive a degree, but whose interests are so varied as to preclude a major in a traditional discipline. Students may work toward either a Bachelor of Arts or Bachelor of Science degree in University Studies granted by the College of Liberal Arts, (618) 453-3388.

### SPECIAL MAJOR

Individual students with academic needs not met in any of the existing majors within the University may arrange a program of courses more suited to their special requirements. Information on the procedures for establishing a Special Major may be obtained from the Honors Office, Faner 2427, (618) 453-2824.



## CAPSTONE OPTION

The Capstone Option is for the transfer student with an Associate in Applied Science degree or equivalent certification whose needs can be met within one of the participating departments. The purpose of a Capstone Option is to provide an opportunity for students to add to the marketable occupational skills and competencies which they have already acquired.

Key features of the Capstone Option are: 1) it is for selected occupational students who have changed their education and occupational goals; 2) it is an alternative option to a baccalaureate degree program which involves no more than two additional years of college at a four year institution; 3) it seeks to recognize similar objectives in both two year occupational programs and four year baccalaureate degree programs; 4) it seeks to recognize similar objectives in certain work experiences and in four year baccalaureate degree programs; and 5) it provides a unique opportunity for developing secondary and post secondary occupational teachers who possess strong work experience and training in a variety of technical specialties and sub-specialties.

The Capstone Option at Southern Illinois University at Carbondale can lead to the Bachelor of Science degree in any of the following areas:

### College of Agriculture

Agribusiness Economics

Agriculture General

Agricultural Production

Agricultural Education

Agricultural Information

Agricultural Mechanization

Animal Science

Food and Nutrition (Hotel, Restaurant and  
Travel Administration)

Plant and Soil Science

### College of Engineering and Technology

Industrial Technology

### College of Technical Careers

Advanced Technical Studies

Aviation Management

Consumer Economics and Family Management

Electronics Management

Fire Science Management (off-campus only)

Health Care Management

### College of Education

Clothing and Textiles

Early Childhood

Vocational Education Studies

Business Education

Education Training & Development

Industrial Education

Health Occupations Education

Home Economics Education

### College of Liberal Arts

Administration of Justice

Paralegal Studies

## Requirements for the Bachelor of Science Degree through Capstone

A student completing the degree using the Capstone Option must complete the hour requirements, residence requirements, and average requirements as are required for all bachelor's degrees. The following General Education requirements must be satisfied:

Science	6 semester hours (two courses chosen from two different groups in GEA)*
Social Science	6 semester hours (two courses chosen from two different groups in GEB)*
Humanities	6 semester hours (two courses chosen from two different groups in GEC)*
English Composition	one course (3 semester hours or 4 quarter hours of GED 101 or equivalent)
Speech	one course (3 semester hours or 4 quarter hours of GED 152 or GE-D 153 or equivalent)
Mathematics	one course (3 semester hours or 4 quarter hours of GED 107 or equivalent)
Health and Physical Education	3 semester hours
Minimum Total Required	30 semester hours

\* For explanation of groups in Areas A, B, and C, see General Education, page 91 of the 1990-91 Undergraduate Catalog.

In addition to the General Education requirements, the student must complete the requirements specified in a contract to be developed between the student and the academic unit or department representative. The contract will list the remaining requirements for the baccalaureate degree.



## Procedures for Applying to the Capstone Option

In order to qualify for admission to the Capstone Option, the student must:

1. Have made application for admission to Capstone by not later than the end of the first semester in the bachelor's degree program. A student registered in a program in which Capstone is not available who changes to a program which does participate must submit the Capstone application by no later than the end of the first session in the new bachelor's program. The student who has been approved for Capstone in one program who changes to another program which also participates in Capstone must receive approval of the new program for continued participation in Capstone by not later than the end of the first semester in the new program.
2. Have earned an associate degree in a non-baccalaureate-oriented program of 60 semester hours or equivalent certification prior to the completion of the first term in the baccalaureate program at Southern Illinois University at Carbondale. Equivalent certification, for the purposes of Capstone admission, is defined as the formal completion of a technically oriented program of two years duration (60 semester hours) resulting in the receipt of an equivalent associate degree, certificate, diploma or other documentation as provided by the student's educational institution.
3. Have submitted all documentation of work prior to the associate degree by no later than the end of the second semester or session at the University. The documentation includes all official transcripts from institutions previously attended and may include test reports, evaluation of military experience or whatever other kind of training has been used to award the associate degree.
4. Have earned a minimum grade point average of 2.25 (4.0 scale) as calculated by the University grading regulations. An applicant denied admission to Capstone as a result of a low average upon completion of the associate degree may not be considered again after raising the average in subsequent work (credit beyond the associate degree).
5. Have entered a bachelor's degree program at the University which participates in the Capstone Option.
6. Have received certification from the academic unit at the University that a bachelor's degree program can be completed within the 60 semester hours of additional work required for the bachelor's degree. The certification will be determined after the Capstone application has been filed.

If advance approval is granted to pursue a Bachelor of Science degree through the Capstone Option and the minimum requirements noted above are not met, the approval for Capstone will be withdrawn.

Additional information concerning Capstone requirements, application and procedures, can be obtained from New Student Admission Services. Contact: Capstone Option, New Student Admission Services, Southern Illinois University at Carbondale, Carbondale, IL 62901-4710. Telephone: (618) 536-4405 or toll free in Illinois (800) 642-3531.

## INTERNSHIPS IN WASHINGTON

Eligible students from Southern Illinois University at Carbondale can combine a work and learning experience for credit through the Washington Center. Participants can intern in congressional offices, executive agencies, and with groups in many other areas such as the environment, consumer affairs, journalism, communications, legal affairs, labor relations, health policy, arts, education, science, public relations, urban affairs, and women's issues. Students also attend seminars taught by representatives of major governmental agencies, interest groups, and corporations.

Prior arrangements are made through major departments to receive up to twelve semester hours for fall or spring semesters and up to six semester hours for a summer session.

The Washington Center at Southern Illinois University at Carbondale is coordinated through the University Honors Program, Faner Hall 2427, (618) 453-2824.

## OPPORTUNITIES FOR STUDY ABROAD

Southern Illinois University at Carbondale recognizes that students interested in study abroad have widely varying needs and experience. Because of this, the University has developed a diverse array of program options ranging from traditional group programs to individual exchanges and internships. In addition, SIUC encourages students to utilize programs offered by other institutions and organizations when these are most appropriate for the individual student's needs. Information concerning eligibility requirements, program offerings and application deadlines may be obtained from the Study Abroad Programs division of International Programs and Services. SIUC offers the following programs:

Year Abroad in Austria: Two semesters are offered in Vienna at the Padagogische Akademie and other institutions. All courses are taught in German and require the student to have completed five semesters of college level German or equivalent with a 3.0 grade point average. Students may earn 30 to 34 semester hours of undergraduate credit in German language, literature, and civilization and in certain other areas with prior approval. Additional information may be obtained from the Department of Foreign Languages and Literatures.

Year in Japan: One or two semester of study in Japanese language, culture and society are offered at the University's off-campus program location in Nakajo, Japan. This program features the opportunity to live with Japanese students and to interact with members of the local community. In addition to Japanese studies courses, students will have the opportunity to take regular general education and departmental courses offered in Japan.

International Student Exchange Program: This exchange program is multilateral and involves one-year placement at 101 study sites worldwide. It is a one-for-one exchange plan under which students pay their normal tuition and fees including room and board, and apply credit earned toward their degree. There are study sites in Africa, Asia, Australia, the British Isles, Canada, Europe, and Latin America. Students in scientific and technical fields are eligible as well as liberal arts and humanities. Applicants must be mature, have a minimum grade point average of 3.25, and possess the appropriate foreign language skills. Acceptance into the program is considered an honor bestowed in lieu of a scholarship. Most forms of financial aid can be used for this program. Additional information may be obtained from International Programs and Services.

Direct Exchanges: There are a number of direct student exchanges between Southern Illinois University at Carbondale and overseas schools which are coordinated either by the sponsoring academic department or by International Programs and Services. Sites are available in Japan, Australia, West Germany, Great Britain, Switzerland, and France. Eligibility requirements and application deadlines vary.

Travel/Study Program: Travel/study courses are offered during intersessions as well as during the summer months. Students must register four to six months prior to the start of the course and may earn graduate or undergraduate credit depending upon the nature of the course. Approximately ten offerings are available during each academic year ranging in length from one week to two months. Courses are taught by full time faculty of SIUC and most do not require a specialized foreign language background. Additional information may be obtained from International Programs and Services.

Partnership in Service-Learning: Service-Learning programs unite academic study and community service so that the service makes the study immediately relevant, and the study relates to and supports the service. The Partnership offers programs in Jamaica, England, Ecuador, Mexico, India, South Dakota (Native Americans), the Philippines, France and Liberia. Programs are offered for a summer, a semester or academic year. The program is rigorous, demanding the ability to fulfill the commitment to the service and the academic requirements. Service-Learning programs are strongly recommended for students considering the Peace Corps or other long-term volunteer experiences after graduation.

The Paris Center for Critical Studies: The Paris Center which is co-sponsored by SIUC offers courses on contemporary French intellectual and cultural life. Originally conceived as a forum for the study of film and film aesthetics, the center has since expanded to offer courses and seminars in linguistics, literature, psychoanalysis, anthropology and semiotics. All coursework is in French. Contact the Department of Cinema and Photography for further information.

Council on International Educational Exchange: The University participates in various study abroad consortia sponsored through the Council on International Educational Exchange. These include language and culture programs in Brazil, China, the Dominican Republic, France, Indonesia, Spain and the USSR; business and society programs in China, Japan and Spain; the Summer Tropical Biology Program in Costa Rica; the Paris Internship and Study Program; and Cooperative East European Studies Programs in Hungary and Poland.

External Programs: A student may enroll in an overseas program conducted by a regionally accredited U.S. institution or an approved foreign institution and transfer the credit earned back to SIUC subject to departmental approval. Students must check with the Office of Admissions and Records or the Graduate School before registering since not all programs are approved for transfer credit. International Programs and Services will assist in this process and provides information on external programs.

Independent Study: Students may study abroad on an independent basis and earn credit through departmental independent study courses with the approval of the academic department. This option is normally limited to students conducting research or working on internships.

## SCHOLASTIC STANDARDS

At the end of each semester or session of attendance a grade report is prepared for each student showing, in addition to the grades earned that semester or session, the scholastic standing and grade point average for that semester or session, and for the overall record at SIUC. It is important that students understand the University's system for computing grade point averages and the various grade point average requirements.

Transferred grades are not to be used in determining students' calculated grade point average, except that transfer students who are admitted on probationary status will be required to earn a 2.0 average semester by semester until a total of 12 semester hours has been earned, before they can be removed from probation.

The significance of the above should be clearly understood by transfer students when studying the general baccalaureate degree requirements. A 2.0 'C' average is required for the work taken at this University.

In computing students' grade point averages all grades of A, B, C, D and F are included in determining the number of calculated hours. Each hour of these grades (1 hour of A is worth 4 grade points) is given its numerical grade points, and the total number of calculated hours is then divided into the total number of grade points to determine the student's grade point average.

Effective with the 1971 summer quarter, all earned grades carrying grade point values are considered when computing students' grade point averages, including each earned grade in a repeated course that is taken during the 1971 summer quarter and thereafter. When computing averages through the 1971 spring quarter, the policy contained in the 1970-71 Undergraduate Catalog is followed.

Students who wish to transfer from one SIUC unit to another, who have less than a 'C' (2.0) grade point average, will be admitted to the new academic unit only if approved by the dean of that unit.

### SCHOLASTIC PROBATION AND SUSPENSION SYSTEM

Students are expected to make satisfactory progress toward a degree, certificate, or other approved objective. To ensure that students are making progress, their records are checked against the regulations below.

#### SCHOLASTIC PROBATION

When a student's cumulative semester average and the cumulative SIUC average fall below a 'C' average (2.0), the student will be placed on scholastic probation. A student on scholastic probation may continue enrollment at Southern Illinois University at Carbondale provided the student does not accumulate six negative points. The student with more than six negative points will not be suspended so long as the term average is 'C' (2.0) or above. A student will remain in the category of scholastic probation until the cumulative SIUC average is 'C' (2.0) or higher.

While on scholastic probation, students may not enroll for more than 14 hours per semester unless approved to do so by the dean of their academic unit. Other limitations may be established by the academic unit within the students are enrolled.

#### SCHOLASTIC SUSPENSION

Students will be scholastically suspended from Southern Illinois University at Carbondale if they fail to meet the requirements of their probational status. Students placed on Scholastic Suspension may seek reinstatement after a minimum of two semesters' interruption but must furnish tangible evidence that additional education can be successfully undertaken. Some academic units have scholastic requirements in addition to the overall University requirements listed here. Students must learn and comply with the University requirements as well as those requirements applying to the individual schools and colleges.



## BASIC GRADUATION REQUIREMENTS

All students are expected to complete the following basic requirements for the bachelor's degree from Southern Illinois University at Carbondale.

1. A minimum of 120 semester hours of credit in approved courses.
2. The last 30 semester hours must be earned in residence at SIUC if a student has transferred from another school.
3. An overall 'C' average and at least a 'C' average in the major. The average requirements apply to work taken at Southern Illinois University at Carbondale. The University does not carry the transfer grade point average.
4. Completion of general studies requirements, upper division unit requirements, and the requirements of the student's major and minor concentration.

The following two special regulations apply to students who transfer from two-year institutions:

1. The credit accepted from accredited two-year institutions is limited only by the provision that 60 semester hours must be taken at SIUC or at any other approved four-year institution, except that the residence requirement must be met. Credit for work experience, CLEP, military credit, and proficiency examination credit awarded by an accredited senior level institution are counted toward the 60 hour requirement.
2. An associate degree in a baccalaureate-oriented program from an accredited institution will be accepted as meeting all of the General Education requirements of Southern Illinois University at Carbondale. The degree will not, however, waive specific academic unit or major and minor requirements which may be offered via General Education courses.

### UNIT OF CREDIT

Southern Illinois University at Carbondale converted from the quarter system to a semester calendar effective fall 1974. All references to hours of credit in this publication are to semester hours unless otherwise specified. One semester hour of credit is equivalent to one and one-half quarter hours. One semester hour of credit represents the work done by a student in a lecture course attended fifty minutes per week for one semester and, in the case of a laboratory and activity courses, the stated additional time.

### CLASS STANDING

Southern Illinois University at Carbondale requires students to earn at least 120 semester hours of acceptable credit in order to receive a baccalaureate degree. For academic classification purposes, a freshman is a student who has completed fewer than 26 hours; a sophomore, from 26 through 55; a junior, from 56 to 85; and a senior 86 or more.

### ACADEMIC LOAD

The normal academic load for undergraduate students is 15-16 hours. The maximum is 18 hours, 21 with a Dean's approval.

The University considers 12 hours as the minimum number to constitute full-time attendance for undergraduate students. This is the figure used for enrollment reporting purposes, by the Illinois State Scholarship Commission, and for Public Law 358 on the undergraduate level. Students attending school under some type of scholarship or assistance program that requires them to be enrolled full-time students should check with the University office administering the program on this point. Further information on Public Law 358 is available at the Financial Aid Office.

Students on scholastic probation may not take more than 14 hours without approval of the head of their academic unit. Students employed full-time may not register for more than eight hours.



## GENERAL EDUCATION FOR THE TRANSFER STUDENT

A transfer student with an associate degree in a baccalaureate-oriented program from an accredited Illinois two-year institution will be accepted as meeting all of the General Education requirements of Southern Illinois University at Carbondale. Associate degrees earned at other than Illinois two-year institutions will be reviewed by the Office of Admissions and Records. If the degree is determined to have comparable subject areas and credit hours, and is considered baccalaureate-oriented, the same benefits will be extended to these graduates. The degree will not, however, waive specific academic unit or major and minor requirements which may be offered via General Education courses. A transfer student without this degree who expects to graduate from SIUC must meet the General Education requirements. These requirements need not be completed prior to transfer but must be fulfilled to meet the general graduation requirements.

NEW General Education Requirements -- For students who began college Fall 1985 or later. An additional change was made effective with the 1988 summer semester. GED 102 replaced GED 117, 118 and 119. This change increased the English Composition requirement from 5 to 6 semester hours, the GED area requirements from 11 to 12 hours, and the total General Education Program requirement from 45 to 46 semester hours.

### AREA A: Our Physical Environment and Biological Inheritance 9

Core: Select one 3-hour course from each of the following two groupings:

1. GEA 101 or GEA 106 or GEA 110

2. GEA 115 or GEA 117 or GEA 118

Elective: One additional course selected from any courses listed in GEA electives, not to include the above.

### AREA B: Our Social Inheritance and Social Responsibilities 9

Core: Select one 3-hour course from two of the following three groupings:

1. GEB 103 or GEB 104 or GEB 105

2. GEB 114 or GEB 211

3. GEB 108 or GEB 202

Elective: One additional course selected from any courses listed in GEB electives, not to include the above.

### AREA C: Our Insights and Appreciations 9

Core: Select one 3-hour course from two of the following three groupings:

1. GEC 100 or GEC 101

2. GEC 102 or GEC 208

3. GEC 122 or GEC 330

Elective: One additional course selected from any courses listed in GEC electives, not to include the above.

### Additional coursework from Areas A, B, or C 3

Students must complete a total of 30 semester hours in Areas A, B, and C. Within each area, they must complete a minimum of 9 semester hours with the required distributions. The remaining three semester hours may be selected from any coursework offered in Areas A, B, or C or from the approved substitution list. The substituted course must substitute for a General Education course that has not already been taken.

### AREA D: Organization and Communication of Ideas 12

Composition: GED 101 and GED 102. GED 120, if completed with a grade of C or better, will also complete the composition requirement. 6

GED 101 must be completed with a grade of C.

Speech: GED 152 or GED 153 3

Mathematics: GED 107 3

Mathematics 114 will also complete the mathematics requirement.

### AREA E: Human Health and Well Being 4

GEE 107 or GEE 201 or GED 236 2

Two hours selected from physical education activity courses offered in GEE 2

### TOTAL 46

Some programs and upper division academic units require specific General Education courses, particularly in English composition.

OLD General Education Requirements -- For students who began college prior to Fall 1985.

The General Education Curriculum for the baccalaureate degree is divided into five major areas; the requirements in each area are as follows.

AREA A Our Physical Environment and Biological Inheritance	9
AREA B Our Social Inheritance and Social Responsibilities	9
AREA C Our Insights and Appreciations	9
Additional coursework from Areas A, B, and/or C	3
AREA D Organization and Communication of Ideas	11
AREA E Human Health and Well Being	4
<b>TOTAL</b>	<b>45</b>

Students must complete a total of 30 semester hours in Areas A, B, and C. Within each area, they must complete a minimum of 9 semester hours, and they must include coursework from at least 3 different disciplines in each Area. The remaining 3 semester hours may include coursework from any one of Areas A, B, or C, or from any combination of these three Areas.

Within Area D, the following are required: 5 semester hours of English composition; 4 semester hours of mathematics; and 2 semester hours of speech or other oral communication as offered in Area D. Some programs and upper division academic units have specific requirements for demonstration of competence in English composition. A student may determine which programs or units have this requirement by referring to college and school requirements listed in Chapter 3 of the University Catalog.

In Area E, the courses taken must include more than one activity or subject. Prospective teachers should also check the section in the University Catalog titled Professional Education Experiences to determine if Health Education coursework should be included in their four hours of Area E requirements.

#### Area A: Our Physical Environment and Biological Inheritance (GEA)

Area Requirements. A transfer student needs a total of no less than 9 semester hours of acceptable college level work in the area of science. A minimum of three different disciplines must be represented within this 9 hour block.

Courses which regularly count within this area are chemistry, physics, earth science, geology, botany, zoology, biological sciences, physical sciences, physical geography, a basic course in physiology, a basic course in astronomy, a general course in microbiology. (Technical physics may also be counted in this area).

##### Course-Hours

101	3	Conceptual Insights into Modern Communications Systems: From Hi-Fi Sound to Laser Beams
106	3	Chemistry for Non-Science Majors
110	3	Earth Science
115	3	Biology
117	3	Botany: Plants and Society
118	4	Introductory Zoology
202	3	Space Science - Astronomy
221	3	Survival of Man
230	3	Energy and the Future
240	3	Ecology
312	3	Conservation of Natural Resources
330	3	Weather

#### Area B: Our Social Inheritance and Social Responsibilities (GEB)

Area Requirements. In the area of social studies a transfer student needs no less than 9 semester hours of acceptable work within a minimum of three different disciplines represented.

Courses which regularly count within this area are introductory courses in sociology, psychology, economics, government, political science, global or economic geography, anthropology, American, world, or European history.

##### Course-Hours

102	3	The Western World
103	3	Geography of the Human Environment
104	3	The Human Experience: Anthropology
105	3	The Contemporary World
108	3	The Sociological Perspective
112	3	Comparative Economic Systems
114	3	Introduction to American Government and Politics
202	3	Introduction to Psychology
205	3	Consumer Decision-Making
211	3	Contemporary Economics
215	3	Comparative Race and Ethnic Relations
221	3	Survival of Man
250	3	Politics in Foreign Nations
262	3	Marriage and Family in Contemporary Society
301	3	Modern America from 1877 to the Present

### Area C: Our Insights and Appreciations (GEC)

**Area Requirements.** A transfer student needs a total of no less than 9 semester hours of acceptable college level work in the area of humanities. A minimum of three different disciplines must be presented within this 9 hour block.

Courses which regularly count within this area are in art and music appreciation, art and music history, survey courses in humanities, philosophy, oral interpretation of literature, survey literature courses such as poetry, fiction, modern literature, English and American literature.

**NOTE:** A student may substitute on an hour-for-hour basis a maximum of 4 semester hours of foreign language counting as one discipline toward the Area C requirement.

#### Course-Hours

100	3	Music Understanding
101	3	Introduction to Art
102	3	Problems in Philosophy
103	3	Introduction to Theater
104	3	Moral Decision
122	3	Appreciation of Literature
200	3	Oral Interpretation of Literature
204	3	Meaning in the Visual Arts
205	3	Innovation for the Contemporary Environment
208	3	Elementary Logic
213	3	East Asian Civilization
215	3	Types of Religion
221	3	Survival of Man
230	3	Classical Civilization
330	3	Classical Mythology
340	3	The Western Cultural Tradition
345	3	Literature and the Modern World

### Area D: Organization and Communication of Ideas (GED)

**Area Requirements.** A transfer student needs a total of no less than 12 semester hours of acceptable college level work in the area of communications. Within Area D, the following are required: 6 semester hours of English composition; 4 semester hours of mathematics; and 2 semester hours of speech or other oral communication as offered in Area D. Some programs and upper division units have specific requirements for demonstration of competence in English composition. Students should consult the University Catalog to determine Area D requirements of the various schools and colleges at SIUC.

#### Course-Hours

101	3	English Composition
102	3	English Composition II
107	3	Intermediate Algebra
120	3	Freshman Honors Composition
152	3	Interpersonal Communication
153	3	Public Speaking

### Area E: Human Health and Well-Being (GEE)

**Area Requirements.** A transfer student needs a total of no less than 4 semester hours of acceptable college level work in Health and/or Physical Education. The courses taken must include more than one activity or subject. Prospective teachers should consult College of Education requirements to determine if Health Education coursework must be included in the four hour Area E requirement.

#### Course-Hours

100	1 to 4	Restricted Physical Education
*101	1 to 24	Aquatics
*102	1 to 10	Physical Fitness
*103	1 to 16	Dance
*104	1 to 34	Individual and Dual Activities
*105	1 to 12	Team Activities
*106	1 to 6	Martial Arts
107	2	Life, Leisure and Recreation
*114	1 to 4	Intermediate Individual and Dual Activities
201	2	Healthful Living
236	2	Nutritional Ecology

\*Consult SIUC Undergraduate Catalog to determine various activities.

**Special Note:** Veterans may qualify for Area E credit for their military experience. See section on Evaluation of Credit.



## Miscellaneous

The preceding General Education requirements are not applicable to community college transfer students who have received an associate degree within an acceptable baccalaureate oriented program. This degree will automatically satisfy all General Education requirements, but will not necessarily satisfy departmental prerequisite lower division courses required of the student's major area.

Students may satisfy some General Education requirements by making certain approved substitutions of departmental courses for specified General Education courses.

Any student who feels qualified to take a proficiency examination is eligible to apply. Credit is given to students passing proficiency exams. Credit by proficiency cannot exceed 30 semester hours. Application for proficiency exam should be initiated at the appropriate department.

Proficiency credit granted by other regionally accredited institutions will be recognized. Special regulations apply to proficiency credit earned through the College Level Examination Program (CLEP). See section on Evaluation of Transferred Credit.

## APPROVED SUBSTITUTES

The departmental courses which have been approved as substitutions for General Education courses are listed below. In no case does the departmental course substitute for more credit hours than the credit hours allowed in the comparable General Education course.

General Education Course	Approved Substitutes
GEA 101-3	One of: Physics 203, 205 or 3 semester hours of technical physics.
GEA 106-3	One of: Chemistry 115, 140, 222, or 4 semester hours of technical chemistry
GEA 110-3	Geology 220
GEA 115-3	One of: Biology 306, 308, 309
GEA 117-3	Botany 200
GEA 118-3	Zoology 220a or 220b
GEA 202-3	Physics 203b or 205b
GEA 240-3	Biology 307
GEA 330-3	Military Credit for Meteorology
GEA unassigned-3,6,9	Three, six, or nine semester hours from University Honors 251a and/or 351a
GEB 103-3	Geography 300
GEB 211-3	One of: Agribusiness Economics 204; Economics 214, 215
GEB unassigned-3,6,9	Three, six or nine semester hours from University Honors 251b and/or 351b
GEC 100-3	Music 101 or three hours of 102, 013, 014, 017, 020, 021, or 022
GEC 101-3	Art 100
GEC 204-3	Art 207
GEC Elective Area	A student with a full year (or its equivalent) of study in a single foreign language may substitute up to (4) hours in General Education Area (C).
GEC unassigned-3,6,9	Three, six or nine semester hours from University Honors 251c and/or 351c
GEA/B/C unassigned-3	Three hours for University Honors 351a/b/c or 351 a/b/c
GED 101-3	Linguistics 101
GED 102-3	Linguistics 105
GED 107-3	One of: Mathematics 108, 109, 111, 114, 116, 117, 139, 140, 150, 151, 159, 250, 259, or 4 semester hours of technical mathematics at the level of intermediate algebra
GED 117-2	Linguistics 102
GED 118-2	One of: Linguistics 103 or 2 semester hours of technical writing
GEE 101-114-1 to 2	Two semester hours from: Physical Education 115, 116, 117, 118, 119, 120, 170
GEE unassigned-1 to 2	One to two semester hours from University Honors 251e and/or 351e
GEE 201-2	Health Education 350
GEE activity unassigned-1 to 2	ROTC Field Training

A maximum of 15 semester hours of comparable technical coursework can be substituted for General Education requirements.

## EVALUATION OF TRANSFER CREDIT

Transfer credit for students admitted to the University is evaluated for acceptance toward University and General Education requirements by the Office of Admissions and Records after the admission decision has been made. All credit from a regionally accredited institution, and those in candidacy status, or from an institution that has its credit accepted by the reporting institution in the state including that which is vocational, occupational, technical, or terminal is accepted at the time of admission. Courses which are remedial or developmental will not be accepted for transfer. The Office of Admissions and Records will determine the acceptance of credit and its applicability toward completion of University and General Education requirements of any transfer work which is used in the admission decision. Although transfer credit from both baccalaureate and non-baccalaureate programs may be considered in the admission process, the acceptance of such credit toward specific program requirements will be made by the department or agency directing the program.

All credit which is accepted and which is not applied to General Education requirements or to a specific program will be considered elective credit. The decision will be made depending upon the program the student has completed and the program entered at Southern Illinois University at Carbondale. A student should not expect to receive credit if the transfer work was taken at a school which is not regionally accredited and whose credit is not accepted by the reporting institution in the state.

Completion of an associate degree in a baccalaureate oriented program in an accredited Illinois two-year institution provides that the student will: a) be accepted with junior standing and b) be considered to have completed the General Education requirements. Associate degrees earned at other than Illinois two-year institutions will be reviewed by the Office of Admissions and Records. If the degree is determined to have comparable subject areas and credit hours, and to be baccalaureate-oriented, the same benefits will be extended to those graduates. Credit from an accredited two-year institution is limited only by the provision that students must earn at least 60 semester hours of work at Southern Illinois University or at any other approved four-year institution and must complete the residence requirements for a degree from the University.

### Transcripts and Test Scores

Transfer students who have taken college level work at other institutions must have official transcripts of all work forwarded to the Admissions and Records Office. An official transcript from each college or university attended must be submitted. Failure to comply with this ruling, failure to indicate all institutions attended, or incorrect information regarding status at the other institutions can result in withdrawal of admission or dismissal for the student.

Transfer students who might qualify for advance standing must have both their ACT profile and their high school transcripts available in the Undergraduate Academic Services office. It is the student's responsibility to see that these items are submitted. If credit for a General CLEP exam (except English) appears in another college's transcript, credit will be accepted at SIUC. For the General English CLEP credit to be accepted, transfer students must submit official scores of the English Composition with Essay Examination of the College Level Examination Program (CLEP). Also, credit possibilities based upon formal service-school training programs, USAFI courses, and military experience will be evaluated upon submitting required papers.

Transfer students may be admitted and their work tentatively evaluated on the basis of a partial or incomplete transcript. If the final and complete transcript is not submitted, the student will not be allowed to register for a second semester of attendance. It should be noted that it is the student's responsibility to request transcripts be sent to the Admissions Office.

NOTE: If the evaluation appears to be in error, the student and/or his or her advisor should contact the Office of Admissions and Records.

### Status of Institution

The annual publications entitled Transfer Credit and Practices of Selected Educational Institutions published by the AACRAO and Accredited Institutions of Higher Education published by ACE are used for guidance relative to the status of institutions for credit acceptance purposes.

### Non-Regionally Accredited

For students who transfer from non-baccalaureate programs in non-regionally accredited institutions, special regulations also apply.

Occupational work taken from a non-regionally accredited institution presented by a student with an associate degree or equivalent and with a 'C' average will be evaluated as stated previously.

There is no provision for the granting of credit, except via proficiency examinations or by individual review by the academic unit the student enters, for students coming from a non-regionally accredited institution without the associate degree or equivalent or with less than a 'C' average.

All accepted occupational and technical credit will be examined by the department of the student's intended major to determine its applicability toward meeting degree requirements.

## Foreign Schools

All work completed at foreign schools must be evaluated through the Admissions Office. Work is evaluated course by course. Courses must be considered equivalent in content to courses at SIUC before credit can be granted. Non-General Education credit will be evaluated by the department under question to determine its acceptability. Students who are transferring work from universities outside the U.S.A. are advised to bring with them official and detailed descriptions of those courses.

Undergraduate applicants must submit official transcripts of records from all secondary or middle schools and all universities, colleges, or professional schools attended. Secondary school records are not required from those who have earned a bachelor's degree or the equivalent thereof and are applying to the graduate school. Records must list subjects taken each year, along with the grades or marks received. Each transcript must include a complete list of all courses taken at that institution and the grade received. There should also be included a description of the grading system of each institution attended and, if possible, a statement of the student's scholastic rank in his or her graduating class.

## Extension, Correspondence, Pass/Fail, Advance Standing, Proficiency

Work taken by extension or correspondence at regionally accredited institutions is accepted unconditionally toward the baccalaureate degree. No more than 30 hours may be in correspondence work. Correspondence work must carry a 'C' or better.

## 'D' Work

Hours of 'D' will be accepted under the same conditions as all other credits except for correspondence work as above.

## Military Experience

Credit for military experience may be granted as follows:

Service of one year or more of active duty and honorable discharge allows six semester hours including two in physical education, two in health education, and two in aerospace studies.

Service of six months to a year may result in two hours in freshman aerospace studies or Army Military Science.

Service of less than six months allows no college credit.

Credit will be accepted for DANTES Subject Standard Tests within the limitations enforced for proficiency credit. No credit is allowed for college-level GED tests. In evaluating credit possibilities based upon formal service-school training programs, the recommendations of the American Council on Education as set forth in the U.S. Government bulletin, Guide to the Evaluation of Educational Experiences in the Armed Forces, are followed. In order to receive credit for military service, veterans must present a copy of discharge or separation papers to the Office of Admissions and Records.

## Preparatory or Developmental Courses

Grades and credit for preparatory or developmental courses will not be used for admission or evaluation purposes.

## Repeating Courses and the GPA

For both admission and evaluation purposes grades earned in repeated coursework will be averaged.

The University does not include an entering transfer's grade point average together with the SIUC GPA; rather, a student's GPA is based solely on work taken at SIUC.



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## PRE-PROFESSIONAL PROGRAMS

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A program of study called "pre-professional" does not lead to a degree at SIUC. Pre-professional students who will be on campus longer than two years should enroll as double majors and enter the college which grants a degree in the second major. Students without an additional major will be enrolled in the College of Liberal Arts (pre-law and pre-theology majors), Undergraduate Academic Services (pre-nursing majors), or College of Science (other health career majors). Pre-professional programs are available in the following areas:

Dentistry (3 or 4 years)	Pharmacy (1 or 2 years)
Law (3 or 4 years)	Physical Therapy (2 to 4 years)
Medicine (including Osteopathic) (4 years)	Podiatry (3 to 4 years)*
Nursing (3 or 4 semesters)	Theology (2 to 4 years)*
Optometry (3 or 4 years)	Veterinary Medicine (3 or 4 years)

In addition to these pre-professional programs, the University offers professional curricula in engineering and law (Carbondale), medicine (Carbondale and Springfield), and dentistry and nursing (Edwardsville).

Pre-professional students may, subject to certain conditions, obtain a bachelor's degree after three years of work (90 semester hours) at SIUC plus one or more years of work in a professional school. During the three years at SIUC, the students must complete all requirements (other than elective hours) for the particular bachelor's degrees they are seeking.

In some cases, students may complete requirements for a major at the professional school, but this is permitted only upon the prior approval of the appropriate divisional head. Also, there needs to be completion of at least one year of professional work with acceptable grades in an accredited dental, law, optometry, podiatry, or veterinary school.

In all cases, SIUC graduation requirements must be met. Students must make the decision to seek a bachelor's degree before entering the professional school so that questions can be clarified early.

Students should be aware that the Testing Office schedules aptitude and/or admission tests for some professions; pre-registration is necessary for these tests.

\*Recommended program not listed.

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## COLLEGE OF AGRICULTURE

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You want to be a part of an exciting, dynamic, fast-growing, high-technology industry, but you are not sure where you might fit into American Agriculture? Be assured this diverse, complex, science-based industry has room for you, and it needs your abilities. The College of Agriculture at SIUC, through programs in Agriculture, Forestry, and Food and Nutrition, can be the "open sesame" for you to enter the career of your choice.

For more than a century, America has been moving agricultural jobs from the farms to the cities, the suburbs and rural communities. As a result, the opportunities in agriculture are probably broader than in any other area of employment. No matter what your interests or the type of career you hope to follow, you can find your place in agriculture. Persons trained in agriculture are needed and they can serve humankind as they satisfy themselves. The spectrum of career opportunities for agriculture graduates ranges from the rural producer, through the many processing and distributing occupations, to those who provide services to the agricultural food and natural resource industries.

The curricula of the five departments of the College of Agriculture which are presented on the following pages provide opportunities for students with wide-ranging interests and abilities in the physical, biological, and social sciences. In Agriculture, you learn to apply these basic sciences in helping to solve food, fiber, environmental and ecological problems--whether these problems are found in the local community, state or nation, or in an international or global context.

<b>MAJORS OFFERED:</b>	Agribusiness Economics	Food and Nutrition
	Agriculture General	Forestry
	Animal Science	Plant and Soil Science

**FACILITIES:** The offices, classrooms and laboratories for all programs in the College of Agriculture except food and nutrition are in the Agriculture Building. Those for food and nutrition are in Quigley Hall. Additional SIUC-owned facilities devoted to teaching and research in the College of Agriculture include nearly 2,000 acres of farm and timber land, 15,575 square feet of greenhouse space, and special centers devoted to each of four species of livestock.

**ACCREDITATION:** North Central Association of Colleges and Schools  
American Dietetics Association (for Food & Nutrition)  
Society of American Foresters (for Forestry)  
National Council for Accreditation of Teacher Education  
(for Agricultural Education)  
National Association of State Universities and Land-Grant Colleges

**UNDERGRADUATE DEGREE OFFERED:** Bachelor of Science.

**GRADUATE PROGRAMS:** The College of Agriculture has programs leading toward the Master of Science degree and a joint program with the Colleges of Science and Education leading to the Ph.D. degree. Many of the programs are mentioned in this section, but there are additional options, available only at the graduate level. For more information, consult with the College of Agriculture, the Graduate School, or see the Graduate Catalog.

**ORGANIZATIONS:** Scholastic and Professional Honoraries: Alpha Zeta (agriculture), Eta Sigma Delta (hotel, restaurant and travel administration), Pi Alpha Xi (floriculture and ornamental horticulture), and Xi Sigma Pi (forestry). Special interests: Alpha Gamma Rho Agricultural Fraternity. College-wide: Agricultural Student Advisory Council, Agassadors. Departmental: Agricultural Computer Club; Agricultural Mechanization Club; Agribusiness Economics Club; Agricultural Communicators of Tomorrow; Block and Bridle Club; Collegiate FFA; Equine Science Club; Food and Nutrition Council; Forestry Club; Hotel and Restaurant Students Association; International Agriculture Club; National Agri-Marketing Association; Plant and Soil Science Club; Pre-Veterinary Science Club; Society of American Foresters Club; Student Dietetic Association; Dairy, Livestock, and Poultry Judging Teams.

**TRANSFER STUDENTS:** If agriculture is offered for transfer credit at a regionally accredited associate degree granting college, introductory courses in the various fields may be accepted at SIUC in lieu of equivalent courses. For transfer students wishing to pursue a concentration in one of the agricultural, food or forestry areas, courses prior to entering SIUC should include physical and biological sciences, social sciences, and humanities. In addition, a course in speech and appropriate sequences in English composition and intermediate or college algebra should be included. All majors within the College of Agriculture must have work in: mathematics; botany or zoology or biology; chemistry; economics; and speech. Persons who have an Associate in Applied Science degree in an occupationally oriented program should inquire into the possibilities of entering the College of Agriculture under the Capstone Program, which is explained in another section of this handbook.

### FOR FURTHER INFORMATION:

Assoc. Dean for Instruction  
College of Agriculture  
Phone (618) 453-2469

New Student Admission Services  
Phone (618) 536-4405 (direct)  
Phone (800) 642-3531 (toll free)

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## COLLEGE OF BUSINESS AND ADMINISTRATION

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The College of Business and Administration, located in Henry J. Rehn Hall, aims to prepare students to perform successfully in business and other organizations functioning within a changing social, economic, and political environment. Study provides the student with fundamental principles and practices of organizational behavior and allows the mastering of knowledge and skills for effective management. The curriculum provides a broad base for understanding business while simultaneously allowing in-depth study within an area of concentration. Students find that the professional education they receive in the college is desired by business, governmental units, and other public institutions. The advanced curriculum, computer experience, and internship programs provide students not only with a meaningful education but with a means of relating that education to organizations and commerce.

**ACCREDITATION:** American Assembly of Collegiate Schools of Business (AACSB), and North Central Association of Colleges and Schools.

**DEGREES OFFERED:** Bachelor of Science.

Accounting	Management
Business and Administration	Entrepreneurship
Business Economics	Management
Finance	Marketing
Financial Institutions	
Financial Management	

**GRADUATE PROGRAM:** The College of Business and Administration offers the Master of Business Administration (M.B.A.), Master of Accountancy (M.Acc.), and Doctor of Business Administration (D.B.A.) degrees.

**ORGANIZATIONS:** Scholastic and Professional Honoraries: Alpha Kappa Psi (Business), Beta Alpha Psi (Accounting), Beta Gamma Sigma (Business), Phi Gamma Nu (Business), Pi Sigma Epsilon (Marketing), and the Society for Advancement of Management (SAM) and American Marketing Association (AMA). Departmental: Concerned Professional Accountants, American Marketing Association, College of Business and Administration Student Council, Financial Management Society, Blacks Interested in Business.

**RETENTION POLICY:** Students admitted to the College in the Summer 1990 term or later, will be required to fulfill University scholastic standards (e.g., maintain a 2.0 grade point average for all work taken at this University).

**TRANSFER STUDENTS:** The College of Business and Administration will accept college level credit earned in business and economics courses from any accredited two- or four-year institution toward the 120 semester hours required for graduation. However, if such courses are offered at the lower division (freshman and sophomore) level at the institution where taken, only courses shown below will be accepted as substitutions for college required courses.<sup>1</sup>

<u>Courses</u>	<u>Semester Hours</u>
Principles of accounting	6.0
Cost accounting	3.0
Economic principles	6.0
Business/economic statistics	3.0
Basic computer course <sup>2</sup>	3.0
Legal and Social Environment of Business	3.0

Students also have the opportunity of validating additional coursework and nothing in the above statement abridges a student's right to satisfy graduation requirements by proficiency (or competency) examinations. Such examinations are treated as a student right by the college and are available for most courses.

<sup>1</sup>At least 40% of the coursework of all business majors, but not more than 60%, must be in Economics and Business prefix courses. This is called the 40% rule.

<sup>2</sup>Computer coursework completed at other universities and colleges will be accepted as transfer credit for the College of Business and Administration's core computer requirement if that course has been approved as an equivalent course by the College of Business and Administration. In this approved course, students should complete instruction in at least these two components: a database and spreadsheets.



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## COLLEGE OF COMMUNICATIONS AND FINE ARTS

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The College of Communications and Fine Arts and is comprised of eight academic units:

School of Art and Design  
Department of Cinema and Photography  
Department of Communication Disorders and Sciences  
School of Journalism  
School of Music  
Department of Radio-Television  
Department of Speech Communication  
Department of Theater

More complete information about the programs offered in each of these academic units is provided under the departmental description.

Three service units are housed in the College:

The *DAILY EGYPTIAN*, a daily student newspaper with a circulation of 27,000.

The Broadcasting Service, operating *WSIU(FM)*, a public radio station; and *WSIU(TV)*, Carbondale, and *WUSI(TV)*, Olney, public television stations.

The University Museum.

Admission to the University is handled through the Office of Admissions and Records, but those students who desire more specific information about a major should make an appointment with an academic advisor of that department or school. Each department or school of the college has one or more individuals who will advise prospective students about major requirements, curriculum, activities, careers, and opportunities. Transfer students may also discuss transfer credit and placement in courses with each academic unit in the college.

Faculty of the college are engaged in research/creative activities concerning communications and the arts. They also provide consulting service and other communication services to schools, newspapers, radio and television stations, museums, arts centers, businesses, and governments. They hold professional memberships and serve as officers in various local, state, national, and international organizations in the communications media and in the arts. A number of special events are presented each year, including lectures by noted artists, music performances, dramatic presentations, art and photography exhibits, and film showings.

**DEGREES OFFERED:**

- Bachelor of Fine Arts - Art
- Bachelor of Arts - Art, Cinema and Photography, Design,  
Music, Theater, Radio-Television, Speech
- Bachelor of Music
- Bachelor of Science - Communication Disorders and Sciences,  
Journalism, and Speech Communication

**GRADUATE PROGRAMS:** Master of Arts degree in Journalism, Speech Communication and Telecommunications; Master of Science in Communication Disorders and Sciences, Journalism, and Speech Communication; Master of Music degree in Music; Master of Music Education degree in Music; Master of Fine Arts degree in Art and Cinema and Photography; Doctorate of Philosophy degree in Communication Disorders and Sciences, Journalism, Speech Communication and Theater.

For specific information concerning graduate work, a student should consult the department of interest in the College of Communications and Fine Arts and the Graduate School.

### **FOR FURTHER INFORMATION:**

Chief Academic Advisor  
College of Communications and Fine Arts  
Phone (618) 453-4308

New Student Admission Services  
Phone (618) 536-4405 (direct)  
Phone (800) 642-3531 (toll free)

Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

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## COLLEGE OF EDUCATION

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Preparation of teachers of all subjects taught in the public schools from pre-school through high school is the special function of the College of Education. In its graduate offerings, however, it broadens its efforts to include professional work for prospective college teachers and several specializations in school administration and supervision.

The College of Education, housed in the Wham Education Building, is the oldest unit of the University, which was originally chartered as Southern Illinois Normal University. Today the College is comprised of eight academic departments: Curriculum Instruction and Media; Educational Administration and Higher Education; Educational Psychology; Health Education; Physical Education; Recreation; Special Education; and Vocational Education Studies.

**TEACHER EDUCATION PROGRAM APPROVAL:** Each of the specializations in teacher education noted in this Counselor's Advisement Catalog has continuing approval from the Illinois State Teacher Certification Board.

**ACCREDITATION:** North Central Association of Colleges and Schools and the National Council for Accreditation of Teacher Education.

**DEGREES OFFERED:** Bachelor of Science.

**GRADUATE PROGRAMS:** Students can continue on the graduate level of the above programs and in some areas not listed. For more specific information, a student should consult with the College of Education and the Graduate School, and read the Graduate Catalog.

**ORGANIZATIONS:** Scholastic and Professional Honoraries: Kappa Delta Pi, Phi Delta Kappa, Pi Lambda Theta, Pi Omega Pi, Delta Pi Epsilon, Eta Sigma Gamma, and Alpha Lambda Delta. Departmental: Association of Childhood Education International, Council for Exceptional Children, Recreation Club, Student Education Association, Women's Recreation Association, Phi Beta Lambda, PE Majors Club, Vocational Education Studies Graduate Association, Illinois Vocational Home Economics Teachers Association, and Iota Lambda Sigma.

**TRANSFER STUDENTS:** Students preparing to teach should familiarize themselves with all the specific requirements and prerequisites for teacher certification. Also, admission to the University or to an academic unit does not admit a student to the formal Teacher Education Program (see Transfer Admissions-Eligibility).

One hundred clock hours of supervised pre-student teaching clinical experiences are required of all Teacher Education candidates. These hours are included in Education 310, 311, 314, 315 and 316, and are primarily planned for the junior and senior professional level of the program. Articulation of courses with Illinois community colleges provides a mechanism for some of the clock hours to be obtained prior to entering SIUC. Prospective students are encouraged to check for articulation of these courses prior to enrollment in similar community college courses.

Students are also required to have the equivalent of a three semester hour course on the characteristics of handicapped children and youth, and methodology for teaching the handicapped including the learning disabled. These requirements are also included in EDUC 310, 311, 314, 315 and 316 as well as methods and clinical experiences. For students who attended community colleges which have not articulated this requirement in equivalent courses, SPE 408 may be taken at SIUC. Further information on articulation of courses may be obtained from the Chief Academic Advisor, College of Education, Wham Education Building, Room 135.

Students wanting to transfer occupational credit into the College of Education should consult a program coordinator in the Department of Vocational Education Studies to determine possible applicability of this credit toward meeting degree requirements.

### FOR FURTHER INFORMATION:

Jacquelyn Bailey  
Chief Academic Advisor  
College of Education Student Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Admissions Office  
Woody Hall  
Phone - 618-453-4381

Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

## SECONDARY EDUCATION

Students who elect to pursue a Bachelor of Science degree in the College of Education, for purposes of preparing to teach in junior or senior high schools, should select academic majors and minors from the areas included in the listing below. Included in the column headed Major are those areas for which Southern Illinois University has approval from the State of Illinois Office of Education and from the State Teacher Certification Board.

<u>Teaching Area</u>	<u>Major</u>	<u>Minor</u> <sup>1</sup>
Agricultural Education	X	
Art <sup>2</sup>	X	
Biological Sciences	X	X
Black American Studies		X
Chemistry	X	X
Earth Science		X
Educational Media		X
English	X	X
Foreign Languages	X	X
Geography	X	X
Health Education <sup>4</sup>	X	
History	X	X
Home Economics Education	X	
Language Arts (English and Reading)	X	
Mathematics	X	X
Microbiology		X
Music <sup>2</sup>	X	X
Vocational Education Studies	X	
(Business Education)		
(Health Occupations)		
(Home Economics Education)		
(Industrial Education)		
Philosophy		X
Physical Education	X	X
Physics	X	X
Physiology		X
Political Science	X	X
Psychology		X
Social Studies	X	
Sociology		X
Speech Communication	X	X
Theater		X
Zoology <sup>3</sup>	X	X

<sup>1</sup> All minors used for certification purposes must include a minimum of 18 semester hours.

<sup>2</sup> K-12 certification which includes secondary.

<sup>3</sup> A student with a major in zoology should have a minor in botany in order to meet certification standards for teaching biology at the high school level.

<sup>4</sup> Driver Education is offered for certification purposes in the Department of Health Education.

Jacquelyn Bailey  
 Chief Academic Advisor  
 College of Education Student Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135



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## COLLEGE OF ENGINEERING AND TECHNOLOGY

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The curricula in the College of Engineering and Technology are designed to provide instruction and to stimulate research. Attention is given to theories and their applications, and to creative and practical aspects.

**ACCREDITATION:** North Central Association of Colleges and Schools; the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) for the Engineering programs, and the Technology Accreditation Commission of ABET for the Engineering Technology programs; National Association of Industrial Technology for Industrial Technology.

**DEGREES OFFERED:**

- Bachelor of Science - Civil Engineering
- Bachelor of Science - Electrical Engineering
- Bachelor of Science - Mechanical Engineering
- Bachelor of Science - Mining Engineering
- Bachelor of Science - Engineering Technology
- Bachelor of Science - Industrial Technology

**GRADUATE PROGRAMS:** Master's degree work is available in a number of specialties in engineering, mining engineering and manufacturing systems. A Ph.D. program in Engineering Science is also available. For specific information concerning advanced degree work, a student should consult the College of Engineering and Technology, the Graduate School and the Graduate Catalog.

**ADMISSION TO ENGINEERING PROGRAMS:** Admission requirements for freshmen, transfer, and international students are under "Admission Policies and Requirements."

### RETENTION POLICY IN THE COLLEGE OF ENGINEERING AND TECHNOLOGY

Students in the College of Engineering and Technology are required to maintain a 2.0 grade point average in their major at all times. Students who do not meet this requirement are subject to collegiate warning. Students on collegiate warning who do not meet College retention standards are subject to collegiate dismissal. Admissions standards in the College require pre-engineering students to fulfill specific requirements to remain in good standing. Students who do not meet these requirements will be covered by the Collegiate Warning/Dismissal Policy.

**TRANSFER STUDENTS:** Students should note that the minimum mathematics requirement for baccalaureate degrees in the College of Engineering and Technology will vary, depending upon the curriculum followed. Prospective transfer students should study the following pages carefully. Students planning to transfer occupational credit toward a degree in industrial technology should consult with the Department of Technology concerning the applicability of such credit toward meeting degree requirements.

Graduates of occupationally-oriented programs should inquire into the possibilities of entering the College of Engineering and Technology in the Industrial Technology major under the Capstone Project. Requirements of this special program are mentioned in another section of this handbook.

### FOR FURTHER INFORMATION:

Dean  
College of Engineering and Technology  
Phone: 618-453-4321

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## COLLEGE OF LIBERAL ARTS

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The College of Liberal Arts offers the following majors leading to the Bachelor of Arts and Bachelor of Science degrees. Separate minors are listed and others are possible in most of these areas.

### Administration of Justice

African Studies<sup>1</sup>  
Anthropology

Asian Studies<sup>1</sup>

Chinese<sup>1</sup>

Classical Civilization<sup>1</sup>

Classics

Comparative Literature<sup>1</sup>

Computer Science

Earth Science<sup>1</sup>

East Asian Civilizations<sup>1</sup>

Economics

English

Foreign Language and  
International Trade

French

Geography

German

Greek<sup>1</sup>

History

Japanese<sup>1</sup>

Latin<sup>1</sup>

Linguistics<sup>1</sup>

Mathematics

Museum Studies<sup>1</sup>

Paralegal Studies

Philosophy

Political Science

Psychology

Religious Studies

Russian

Sociology

Spanish

Special Major

Speech Communication<sup>2</sup>

Uncommon Languages<sup>1</sup>

University Studies<sup>3</sup>

<sup>1</sup>Minor only.

<sup>2</sup>Liberal Arts major, not professional major.

<sup>3</sup>University Studies students seeking the Bachelor of Science degree are not required to complete one year of a foreign language.

### College Requirements Effective Fall, 1978

Students beginning college anywhere Fall 1978 or later must satisfy the following requirements:

1. University requirements including those relating to General Education, residency, total hours, and grade point average.
2. Successful completion of requirements in an approved major in the College of Liberal Arts.
3. At least 40 hours of coursework at the 300- or 400-level.
4. The Liberal Arts student must complete one year of a foreign language. In addition to General Education requirements, he or she must complete one course in either mathematics or computer science and one course in English composition.

Students should consult with an advisor at an early stage in their college career regarding any problems related to these requirements. Students planning to attend graduate school or one of the professional schools such as law or medicine should also consult with their advisors on how best to plan their undergraduate curriculum.

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## COLLEGE OF SCIENCE

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The College of Science offers majors, and in most cases minors, leading to the Bachelor of Arts and Bachelor of Science degrees in the following fields of study:

Biological Sciences	Microbiology
Botany	Physics
Chemistry	Physiology
Geology	Zoology
Mathematics	

A minor in Earth Sciences is also offered.

Pre-professional programs are also offered in the following areas:

Dentistry	Podiatry
Medicine	Pharmacy
Optometry	Physical Therapy
Osteopathy	Veterinary Medicine

### ACADEMIC REQUIREMENTS:

None of these general academic requirements may be satisfied by taking the required courses on a Pass/Fail basis.

**BIOLOGICAL SCIENCES:** Six semester hours in courses offered by the biological sciences departments in the College with the proviso that this requirement cannot be satisfied in whole or in part by General Education courses, but may be substituted for the latter in meeting the General Education requirements.

**FOREIGN LANGUAGE:** The foreign language requirement can be met by one of the following: a) passing an eight hour, 100-level sequence in one language; b) earning eight hours of 100-level credit in one language by proficiency examination; c) completing three years of one language in high school with no grade lower than 'C'.

A student whose native language is not English may use the native language to satisfy part or all of the science foreign language requirement at Southern Illinois University. If the language is presently taught at SIUC, academic credit may be earned. If the language is not presently taught at SIUC, no credit is given, but partial or full satisfaction of the science foreign language requirement may be granted if the student's major department so recommends. A student whose native language is English but who has learned another language not taught at SIUC may qualify without credit for partial or full satisfaction of the science foreign language requirement under certain circumstances, including formal recommendation by the student's major department and availability of an examiner and examination materials within the Department of Foreign Languages and Literatures. For information, the student should consult the College of Science advisement center.

Four hours of foreign language may substitute for credit in GEC provided the student has taken GEC courses totalling five hours in two other disciplines.

**MATHEMATICS:** The mathematics requirement can be met by: a) passing Mathematics 108, 109, or 111 or equivalent or Mathematics 140 or b) completing three years of high school mathematics with no grade lower than a 'C' and achieving a score on the University's Mathematics Placement Test which allows the student to enroll directly into Mathematics 150.

**PHYSICAL SCIENCES:** Six semester hours in courses offered by the physical science departments of the College, with the proviso that the requirement cannot be satisfied in whole or in part by General Education courses, but may be substituted for the latter in meeting the General Education requirements.

**GENERAL REQUIREMENTS:** At least 40 hours of the student's 120 hours for graduation must be at the 300 or 400 level. The total may include transfer credit for courses judged by the department involved to be equivalent to its upper division courses. For transfer students, at least 24 of these hours must be in residence.



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## COLLEGE OF TECHNICAL CAREERS

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The College of Technical Careers, established in 1950, provides baccalaureate majors and unique two-year college-level programs. The associate degree programs qualify students for employment at the semi-professional and technical level in industry, the allied health occupations, and business. A combination of technical courses and general education courses is included in each program to provide a comprehensive preparation for occupational competence.

Scientific and technical changes have increased the possibilities for employment at the technician's level. For every professional person, industry and business require two to seven properly trained technicians.

The College of Technical Careers occupies facilities on the Carbondale campus and on the Carterville campus nine miles east of Carbondale on Old Route 13. Facilities for aviation programs are located at the Southern Illinois Airport, four miles west of Carbondale. The University provides shuttle bus service to the classes at the Carterville campus and airport.

Accreditation: North Central Association of Colleges and Schools; American Board of Funeral Service Education, Commission on Dental Accreditation of the American Dental Association, Committee on Allied Health Education, CAHEA and the Joint Review Committee for Respiratory Therapy Education, National Fire Protection Association, National Shorthand Reporters Association, National Institute for Automotive Service Excellence.

Degrees Offered: Bachelor of Science and Associate in Applied Science.

### Bachelor's Degree Programs

Advanced Technical Studies  
Aviation Management  
Consumer Economics and Family Management  
Electronics Management  
Fire Science Management (off-campus only)  
Health Care Management  
Interior Design

### Associate in Applied Science Degree Programs

Allied Health Careers Specialties	Dental Technology
Architectural Technology	Electronics Technology
Automotive Technology	Law Enforcement
Aviation Flight	Photographic Production Technology
Aviation Maintenance Technology	Mortuary Science and Funeral Service
Avionics Technology	Office Systems and Specialties
Commercial Graphics-Design	Physical Therapist Assistant
Computer Information Processing	Radiologic Technology
Construction Technology	Respiratory Therapy
Dental Hygiene	Tool and Manufacturing Technology

### Organizations

Alpha Eta Rho (International Aviation Fraternity), Phi Beta Lambda (International), Sigma Phi Sigma (Mortuary Science), CTC Electronics Association, Delta Tau-Dental Lab, Junior SIU American Dental Hygiene Association, and Sigma Phi Alpha (Honorary Dental Hygiene Society). Society of Manufacturing Engineers student chapter.

### Transfer Students

Transfer credit is evaluated for acceptance towards University and General Education requirements by the Office of Admissions and Records after an admission decision has been made. The evaluation toward satisfying of specific curriculum requirements is done by the department or agency directing the specific curriculum.

The General Education program at CTC includes courses in the social studies (economics, government, and psychology); in the physical sciences (physics, chemistry, and mathematics); and in oral and written communication (speech, English composition, business correspondence, and technical writing).

### For further information:

Dean  
College of Technical Careers  
Phone: 618-453-8818

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## SCHOOL OF SOCIAL WORK

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The School of Social Work aims to prepare students to perform successfully in public and private social work agencies. The School of Social Work offers a Bachelor of Science with a major in social work and a Master of Social Work degree.

Coursework provides the student with fundamental principles and skills of helping behavior. The social work practice courses enable students to develop the skills necessary for prevention and treatment of a variety of human problems. The practice skills include data-gathering, differential assessment and planning, interaction, and evaluation. Experimental learning, simulation, role-playing, volunteer experience, are all an integral part of the curriculum. The field practicum engages the student in supervised direct services activities, providing practical experience in the application of the social work theory and skills acquired in the foundation courses.

### Retention Policy:

In order to continue enrollment in the School of Social Work, students must maintain a 2.0 cumulative grade point average and a 2.5 grade point average in social work core courses.

### Accreditation:

North Central Association of Colleges and Schools  
The Council on Social Work Education

### Organizations:

The National Association of Social Workers  
Social Work Student Alliance

### For further information:

Academic Advisor  
School of Social Work  
Quigley Hall, Room #4  
Phone: (618) 453-2243

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## OTHER ACADEMIC ACTIVITIES

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### Pre-Major Advisement Center

The Pre-Major Advisement Center is the academic home of students who have not yet declared a major. The advisors have a wide knowledge of the many programs offered by the University and are ready to help students select a suitable area of specialization. Advisors are available for academic counseling and academic advisement by appointment throughout each semester. There is also an advisor available at selected times each day for problem solving on a drop-in basis. The Pre-Major Advisement Center is located in Woody Hall, Wing C. Call (618) 453-4351 for more information.

### Center for Basic Skills

The Center for Basic Skills offers special academic assistance through a non-credit learning skills class and laboratory, academic monitoring and counseling, small group and individual tutorials. Students should direct inquiries to the Director of the Center for Basic Skills, (618) 536-6646.

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## THE GRADUATE SCHOOL

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The primary concern of the Graduate School is graduate instruction and research at Southern Illinois University at Carbondale. The Graduate School therefore plays an essential role in development of instructional and research programs, in acquisition of funds, and in procurement of facilities necessary to encourage and support research by members of its scholarly community. Through students who meet the Graduate School's high standards of achievement of completing advanced courses of study and through students and faculty members who achieve significant results in their research, the Graduate School makes its contribution to the public welfare locally, regionally, nationally, and internationally.

The Graduate School offers master's degrees through 62 programs, the specialist degree in three areas, and the doctoral degree through 25 programs. Under the leadership of a graduate faculty of over 1000 members, research and study by over 3,600 graduate students is promoted. In addition, the Schools of Law and Medicine provide graduate students with excellent opportunities to work with faculty members and students in those professions.

Master's degrees are available in the major fields listed below:

Accountancy (M.Acc.)	Geology
Administration of Justice	Health Education
Agribusiness Economics	Higher Education
Agricultural Education & Mechanization	History
Animal Science	Journalism
Anthropology	Manufacturing Systems
Applied Linguistics	Mathematics
Art (M.F.A.)	Microbiology
Behavior Analysis and Therapy	Mining Engineering
Biological Sciences	Music (M.Mus.)
Business Administration (M.B.A.)	Pharmacology
Chemistry	Philosophy
Cinema and Photography (M.F.A.)	Physical Education
Communication Disorders and Sciences	Physics
Community Development	Physiology
Computer Science	Plant Biology
Curriculum and Instruction	Plant and Soil Science
Economics	Political Science
Educational Administration	Psychology
Educational Psychology	Public Affairs (M.P.A.)
Engineering	Recreation
Civil Engineering and Mechanics	Rehabilitation Administration and Services
Electrical Engineering	Rehabilitation Counseling
Mechanical Engineering & Energy Processes	Social Work (M.S.W.)
English	Sociology
English as a Foreign Language	Special Education
Food and Nutrition	Speech Communication
Foreign Languages & Literatures	Statistics
French	Telecommunications
German	Theater (M.F.A.)
Spanish	Vocational Education Studies
Forestry	Zoology
Geography	

Specialist degree programs are available in the fields listed below:

Educational Administration  
Educational Psychology  
Curriculum and Instruction

Doctor's degrees are available in the fields listed below:

Anthropology	Mathematics
Business Administration (Doctor of Business Administration)	Microbiology
Chemistry	Molecular Science
Communication Disorders and Sciences	Pharmacology
Economics	Philosophy
Education	Physiology
Engineering Science	Plant Biology
English	Political Science
Geography	Psychology
Geology	Rehabilitation (Doctor of Rehabilitation)
Historical Studies	Sociology
Journalism	Speech Communication
	Zoology

The Graduate School, as a part of Southern Illinois University at Carbondale, is fully accredited by the North Central Association of Colleges and Schools, and by various other professional and academic accrediting organizations. Information on the various graduate programs and on admission to the Graduate School can be obtained by writing Graduate School, Southern Illinois University, Carbondale, Illinois 62901. Phone: (618) 536-7791.



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## SCHOOL OF LAW

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Southern Illinois University's School of Law, established in 1973, is fully accredited by the American Bar Association and is a member of the Association of American Law Schools. It is a small law school with approximately 310 students. Approximately 105 students enter the law school each fall. The student/faculty ratio of 13/1 ranks among the best in the United States. The school is housed in a spacious, modern building which contains the classrooms, law library, legal clinic, faculty offices, and student lounges.

The law school offers an extensive curriculum, emphasizing "skills" courses such as legal writing and research, legal argumentation, trial advocacy, client counseling, etc. The school has an active moot court program and a unique legal clinic in which upperclass students gain practical experience in both civil and criminal cases under the supervision of the clinic director. The school is a leader in the fields of environmental law, health law and international law. The school's ABA Moot Court team won the national championship in 1985 and 1986.

The law school, in cooperation with the Graduate School, offers concurrent Juris Doctor and Master's degrees in Business Administration, Public Affairs, and Accountancy. The law school is one of a handful of schools to offer a joint J.D./M.D. degree in conjunction with the SIU School of Medicine.

The law library contains 260,000 volumes--more than in over half the academic law libraries in the country--as well as two computer-assisted research systems (LEXIS and Westlaw). Law students have a key to the building which gives them 24-hour access to the Law Library.

Information on admission to SIU School of Law can be obtained by writing to:

Scott Nichols, Assistant Dean and  
Director of Admissions  
School of Law  
Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

NOTE: Information on undergraduate preparation necessary for schools of law is listed under Pre-law in this text.

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## SCHOOL OF MEDICINE

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Southern Illinois University School of Medicine was established in 1970 in response to a need in Illinois for increased opportunities for education in the health fields and the more encompassing need for improvements in the health care delivery system. To have the broadest impact possible on health care in central and southern Illinois, the school is deeply engaged in training men and women who will become practicing physicians with special emphasis on primary care.

The first year is conducted on the campus of SIUC. Students are instructed in the sciences basic to medicine with a strong emphasis on clinical application and medical problem solving. The remaining three years of the program, which leads to the M.D. degree, are increasingly clinical in their emphasis, and are offered in Springfield. This split-campus organization allows the School of Medicine to make full use of available resources in both locations.

Available facilities include the extensive and well-equipped laboratories of Southern Illinois University at Carbondale; the public and private clinical facilities of Carbondale; and St. John's Hospital and Memorial Hospital in Springfield, each of about 700 beds. A new medical school building in Springfield was completed in 1974 in time for the first class transferring from Carbondale. Inquiries on admission should be addressed to:

Assoc. Dean of Students/Admissions  
School of Medicine  
Southern Illinois University  
P.O. Box 19230  
Springfield, IL 62794-9230

or

Roger E. Robinson  
Asst. Dean of Students/Carbondale  
Lindgren Hall  
School of Medicine  
Southern Illinois University  
at Carbondale  
Carbondale, IL 62901

NOTE: Information on undergraduate preparation necessary for schools of medicine is listed under pre-medicine in this text.

## AEROSPACE STUDIES (AFROTC)

The United States Air Force offers "Aerospace Studies" as a voluntary course program which leads to a commission as an Air Force officer following graduation from the University. All cadets are expected to maintain a satisfactory grade point average while in the program and must be able to give evidence of a bona fide baccalaureate degree from the university as a minimum toward meeting the commissioning requirements. The program is divided into two parts: The General Military Course (GMC) for Freshmen and Sophomores, and the Professional Officer Course (POC) for Juniors and Seniors.

Any upper division student is eligible for membership in the Professional Officer Corps. A student who competes successfully for POC membership at a later point in his or her academic years must remain a full-time student during his two year membership in the POC. This full-time status may be at the undergraduate or graduate level.

### General Military Course (GMC)

As the name implies, this portion is "General" in nature. Uniforms are provided, classes are given, and the cadets are under no obligation to the Government. Upon the successful completion of the freshman and sophomore requirements, cadets may voluntarily attend a four week Field Training course during the summer at an Air Force Base in order to qualify for entry into the Professional Officer Course. Cadets must successfully complete a course in English composition during GMC membership.

### Professional Officer Course (POC)

Acceptance into the last two years of the program (POC) is competitive. Selection is based on the successful completion of a physical examination and the Air Force Officer Qualifying Test (AFOQT) and on demonstrated leadership potential, physical fitness and cumulative grade point average. Newly-entering students at this level (AS 300/400) who have not gone through the General Military Course for freshmen and sophomores are also required to attend a six week Field Training course during the summer--this is normally the summer following the successful completion of their sophomore year. Such students and graduate students should contact the SIUC AFROTC regarding exceptions to the rule. A course in mathematical reasoning must be taken prior to commissioning.

### Obligations

The GMC cadet is not obligated at any time. Cadets entering the POC must accept a commission into the United States Air Force following graduation. If these conditions are accepted, then the POC does incur a military obligation.

Payments: The GMC cadets receive no payments other than that received while in field training at the end of their sophomore year. The POC cadets receive a monthly tax-free subsistence allowance (call AFROTC for the current amount) and are also paid for their field training activities.

Scholarships: Air Force ROTC has two types of scholarships available. The first is the Federal Scholarship and it is directed almost exclusively to highly qualified cadets in three and one-half, three, two and one-half, and two year increments. These are directed almost exclusively at the engineering and science/technical fields of study. Any recipient of such a scholarship must agree to complete successfully at least one year of a major Indo-European or Asian language prior to commissioning. The second scholarship is funded by the state of Illinois, and amounts to a tuition waiver. This is available to GMC and POC cadets regardless of academic major and is awarded through the department for academic excellence to students enrolled/accepted into the ROTC program at SIUC. Cadets who have attended Illinois state junior colleges and are currently enrolled in SIUC's ROTC courses may also be eligible for a tuition waiver. No military service obligation is incurred by accepting Illinois-funded tuition waivers.

### Veterans Commissioning Program

Qualified enlisted personnel enrolled in an SIUC resident center may enter the two-year (POC) AFROTC program in Carbondale. Enlistees must meet the following criteria: 1) Graduate within two years of entry in AFROTC at SIUC (full-time status); 2) U.S. citizen; 3) Under 33 years of age; 4) Have a minimum of 180 days of active duty; 5) Have qualifying scores on the AFOQT; 6) Be able to attain an honorable discharge with a favorable reenlistment code; 7) Have a qualifying physical examination; 8) Process successfully through your nearest AFROTC detachment. Points of clarification for this program may be addressed by mail or phone to the Carbondale AFROTC Office. The Veterans Commissioning Program for AFROTC is available to all services within the Department of Defense (Army, Navy, Air Force, Marines).

### Special Note to Counselors:

This program is available to all majors. For those applicants who have goals of becoming a pilot, navigator, or missile officer, any academic major is viable. We do, however, have a special need for engineering, mathematics, chemistry, computer science, and physics majors. All academic work completed since graduation from high school will be evaluated.

ARMY MILITARY SCIENCE  
(Army Reserve Officers' Training Corps)

Army Military Science Studies is a voluntary course sequence leading to a commission as an officer in the United States Army (Active Army, Army Reserves, or Army National Guard). Students in all fields of study at Southern Illinois University at Carbondale are eligible to enter the Army Military Science Program.

Scholarships: Numerous 4-year, 3-year, 2-year, and 1-year scholarships are available to qualified students.

Basic Course: Enrollment in the basic course (freshman and sophomore level courses) is unrestricted and carries no military obligation.

Advanced Course: Acceptance into the advanced course (junior and senior years, 300-level) is contingent on meeting academic, physical, age, and citizenship prerequisites. Any student, graduate or undergraduate, with at least two academic years remaining at the University, may participate in the advanced course.

Advance course students attend a six-week advanced leadership camp one summer conducted at an Army installation. Students receive travel pay to and from camp, are furnished room and board, and are paid while at camp.

Payments: All individuals who are contracted into the Advanced Course receive a \$100 per month, tax free subsistence allowance.

Retention: All students must meet University academic requirements and maintain satisfactory academic progress to enter or remain in the ROTC program.

Placement: We are able to guarantee placement into the Reserve Forces (Army Reserve, Army National Guard) and for those students who desire active duty we have a selection rate much higher than the national average.

Extra-Curricular Activities: In addition to courses offered for academic credit, the Army Military Science program sponsors extracurricular activities. The Ranger Company is open to all Army ROTC students. The Pershing Rifles, a national organization, is open to all University students. The Pershing Rifles also contain the Color Guard and the Drill Team. They perform at home football and basketball games and march in numerous local parades and at the Annual Mardi Gras parade in New Orleans. The Association of the United States Army is a national organization with membership open to all students of the University.

The Army Military Science department is located in Kesnar Hall, Bldg. 112, Room 106; telephone (618) 453-5786.



## ENTRY LEVEL JOB TITLES

WHAT DO I DO WITH A DEGREE IN \_\_\_\_\_?

The University Placement Center at SIUC has compiled a list of titles associated with the first job recent graduates obtained in business, industry or government. We have listed the titles for each non-teaching major.

The list is intended to be used to assist teachers, counselors, faculty members and students faced with the question: "What does one do with a degree in \_\_\_\_\_?" The following is a representative list of entry-level job titles:

Account Executive	Extension Agent
Broadcast Producer	Soil Conservationist
Copywriter	Herd Health Specialist
Disc Jockey	Food Technologist
Newspaper Reporter	Dietician
	Crop Supply & Service Specialist
A&P Mechanic	Biologist
Automotive Mechanic	Chemist
Dental Hygienist	Actuary
Electronics Technician	Geologist
Field Service Representative	Quality Assurance Technician
Tool and Die Maker	Lab Technician
	Zoologist
Computer Programmer	Police Officer
Editor	Criminal Investigator
Paralegal	Corrections Officer
Retail Management	Probation-Parole Officer
Counselor	Security Officer
Teacher of English as a Second (or foreign) Language	Guard
	Federal Agent
Associated Engineer	Auditor
Manufacturing Engineer	Management Trainee
Process Engineer	Loan Examiner
Production Engineer	Internal Auditor
Quality Engineer	Market Analyst
Safety Engineer	

The University Placement Center hopes that this listing will encourage both counselors and potential SIUC students to seek additional information about career opportunities prior to matriculation and for students to utilize the services of the SIUC University Placement Center once they are enrolled.

For additional information, please contact the following placement consultants:

Agriculture	Darlene Blackstone
Business and Administration	Marilyn DeTomas
Communications and Fine Arts	Judy Eaton
Cooperative Education	
Services/Internships	Anthony Chavez
Education--Higher Education and Public School Administration	Darlene Blackstone
Engineering and Technology	Michael Murray
Liberal Arts	Judy Eaton
Science	Marilyn DeTomas
College of Technical Careers	Mike Murray
International Placement	Judy Eaton

Director  
Telephone - 618-453-2391  
Woody Hall, B-204

## ACCOUNTING

College of Business and Administration (COBA)  
(Bachelor of Science)

Dr. Frederick Wu, Director  
Telephone - 618-453-2289  
Henry J. Rehn Hall, Room 232

Accounting is the process of identifying, measuring, and communicating economic data so that sound business judgments and decisions can be made.

The curriculum is designed to prepare a student to assume a professional position as a certified public accountant or to join the management team in industry and government. The courses provide a basic understanding of all phases of accounting and permit the student to elect courses to prepare for a particular area of interest.

The School of Accountancy has a working relationship with several national public accounting firms with whom the School arranges for student work experience during the spring semester of their senior year. Students work off campus in the field of accounting under the direction of the cooperating public accounting firms. While most of the work assignments are in the St. Louis and Chicago areas, some students have been assigned, at their request, in other geographical districts as far away as New Jersey and Texas. The student receives valuable work experience, a salary, and three hours of university credit under the internship program. Interns are selected by the School.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	3
GEB	Social Science <sup>1</sup>	3	-
*GEB 202	Introduction to Psychology <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	3	3
*GED 101	English Composition <sup>1</sup>	3	-
*GED 102	English Composition II <sup>1</sup>	-	3
*MATH 139	Finite Mathematics	3	-
*MATH 140	Short Course in Calculus	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	-
GEC	Humanities (select)	-	3
*GED 152,153	Public Speaking or Interpersonal Comm. <sup>1</sup>	3	-
*ACCT 220	Financial Accounting	3	-
*ACCT 230	Managerial Accounting	-	3
*CS 212 or	Intro. to Computer Programming <sup>3</sup>		
CIP 229	Computing for Business Admin. <sup>3</sup>	-	3
*ECON 214	Macro Economics <sup>2</sup>	3	-
*ECON 215	Micro Economics <sup>2</sup>	-	3
*MGMT/ECON 208	Economic and Business Statistics	3	-
*MGMT 202	Business Communications	-	3
		<u>15</u>	<u>15</u>

\*Required course for a major in COBA.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, "General Education for the Transfer Student."

<sup>2</sup>ECON 214 or 215 counts toward GEB credit.

<sup>3</sup>Course will be approved by articulation agreement with each college.

## Third and Fourth Years

As a declared Accounting major, the student will take upper level business courses which will prepare the student for an exciting career in the Accounting area. These courses include the remaining Core requirements and 24 credits in the Accounting area.

## Accounting As A Major

Neither minor nor foreign language required.

Graduate degrees available; Masters in Accountancy (M.Acc.), DBA.

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements.

The School is recognized by the American Assembly of Collegiate Schools of Business (AACSB). See the College of Business and Administration listing for their retention policy and the 40% rule. Furthermore, a 2.00 grade point average is required in SIUC accounting courses for graduation. A 'C' or better is required in all prerequisite accounting courses. This does not apply to Accounting 220, the prerequisite for Accounting 230, for non-accounting majors.

Representative First Job Titles: Accountant, Accounting and Fiscal Admin. Career Trainee, Revenue Collection Officer, Auditor, Grants and Contract Officer, Assistant Controller, Plant Accountant, Retail Controller Trainee, Junior Systems Analyst, Financial Management Trainee, Internal Auditor, Accounting Management Trainee, Property Accountant, Budget Accountant.

## ADMINISTRATION OF JUSTICE

College of Liberal Arts  
(Bachelor of Science)

Dennis B. Anderson, Director  
Telephone - 618-453-5701  
Faner Building, 4th Floor

The Bachelor of Science degree with a major in Administration of Justice meets the career objectives of students interested in law enforcement, private security management, corrections, juvenile services and other roles in social and criminal justice.

Four areas of specializations--law enforcement, security management, corrections, juvenile justice and delinquency prevention--have been delineated to give a range of choices suitable for most students preparing for careers in a field of criminal justice. Within the framework of these specializations, under faculty guidance, a student may take supplemental courses which complement any of the above specializations, e.g., computers, accounting, management, foreign language.

Field internship placement is an important element in the Administration of Justice program and internships are encouraged for qualified students.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Sciences (select) <sup>1</sup>	3	3
GEB	Social Sciences (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health & Well Being (Activity) <sup>1</sup>	-	2
AJ 201 or 290	Intro to Criminal Justice System or Intro to Criminal Behavior	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Sciences (select) <sup>1</sup>	3	-
GEB	Social Sciences (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE 107, or 201 or 236	Human Health & Well Being (select) <sup>1</sup>	-	2
GEA, B, C	Elective (select) <sup>1</sup>	3	-
AJ 201 or AJ 290	Intro to Criminal Justice System or Intro to Criminal Behavior	3	-
AJ 310	Intro to Criminal Law	-	3
AJ	Electives	3	3
		<u>15</u>	<u>14</u>

<sup>1</sup>To determine what courses may be taken to satisfy the General Education requirements, please refer to the section, General Education. The preceding two-year outline can be altered to meet the needs and abilities of the student.

### Third and Fourth Years

The last two years of a student's program concentrate on specific career or professional objectives. The student must take the division requirement of 16 semester hours, plus meet the requirements of a chosen concentration from the following areas: Law Enforcement, Juvenile Justice and Delinquency Prevention, Corrections, or Private Security Management.

#### Administration of Justice As A Major

Graduate degree program available.

In addition to the University's requirements for General Education, the College of Liberal Arts requires one year of a foreign language (we recommend Spanish); one course in mathematics or computer science; one course in English composition (English 290); and at least 40 hours of course work at the 300 or 400 level.

A minor (secondary concentration) is required and is selected in consultation with the student's academic advisor. For a secondary concentration, the student selects 18 hours of courses constituting a systematic sphere of study relevant to his or her interests and needs. For a minor, students must fulfill the appropriate department's requirements.

Multi-disciplinary staff with backgrounds in Sociology, Psychology, Education, Law and Rehabilitation provide instruction. Most of the staff also have practical experience in the Criminal Justice System. Outstanding faculty, nationally recognized program, guest speakers, special programs, international emphasis, and career oriented experience available.

Representative First Job Titles: Crime Investigator, Patrolperson, Juvenile Delinquency Education Specialist, Alcoholism & Drug Addiction Counselor, Delinquency Preventor, Community Planning & Redevelopment Officer, Morale Education Specialist, Child Care Worker, Probation & Parole Administrator, Rehabilitation & Resettlement Analyst, Social & Behavioral Researcher, Outreach Director, YMCA-YWCA Director & Program Specialist, Prisoner Classification Interviewer, Public Aide, Caseworker, Security, FBI Agent, Penology and Corrections Officer.



ADVANCED TECHNICAL STUDIES  
College of Technical Careers  
(Bachelor of Science)

Dr. Fred Isberner  
Coordinator  
Telephone - 618-453-8898  
Technical Careers Building  
Room 126

The Advanced Technical Studies major is a flexible, individually designed program of study emphasizing technical management for students with a broad range of technical training, interests, and experience. The program is ideally suited for community college and technical institute graduates holding occupationally-oriented associate degrees in fields such as automotive technology, communication graphics, construction technology, electronic data processing, photographic technology, secretarial services, and tool and manufacturing technology. Beginning freshmen should apply to an appropriate associate degree major and plan to enter the ATS program upon completion of the AAS.

The Advanced Technical Studies major focuses upon managerial and supervisory skills for the technical professions. Graduates put these skills to work in such fields as construction, automotive, computer information processing, office management, architectural drafting/design, advertising, and small business operations.

The bachelor of science degree in Advanced Technical Studies builds upon students' previous technical training through a combination of core courses, major requirements, approved major electives and SIUC general education requirements.

The 46 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 46 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

First Year

GEA	Science (select)	3	3
GEB	Social Science (select)	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 107	Intermediate Algebra	-	3
GEE 107 or 201 or 236	Human Health and Well Being (select)	2	-
Electives or	Technical Specialization	7	5
		18	17

Second Year

GEA	Science (select)	3	-
GEB	Social Science (select)	3	3
GEC	Humanities (select)	-	3
GED 102	English Composition II	-	3
GED 152	Interpersonal Communication or		
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (Activity)	-	2
Electives or	Technical Specialization	9	8
		18	19

\*GE Total = 46 hours. See advisor to determine eligibility for Capstone option.

Third and Fourth Years

ATS core courses -- 12 hours required	
ATS 364	Work Center Management 3
ATS 416	Applications of Technical Information 3

Two of the following:

ATS 332	Labor Management Problems 3
ATS 383	Data Interpretation 3
ATS 421	Professional Development 3
	12

Specialization Requirements - 24 hours

Must include at least 15 hours of 300-400 level coursework. Individually designed with students' faculty advisor.

Internship, Independent Study, or approved equivalent - 12 hours required.

Approved career electives - 27 hours

TOTAL: 120 hours

Representative First Job Titles: Automotive Sales and Services Representative, Construction Foreman, Graphic Artist.

The Agricultural Economics/Agribusiness curriculum is designed to prepare men and women for attractive careers related to the business and public policy aspects of agriculture. Courses offered include agribusiness management, finance, marketing, prices, policy, farm management, economic development and natural resource management. In order to accomplish the objectives of providing the student with a basic understanding of business-economic decision principles applied to agriculture, the program includes courses from the Department of Economics, College of Business and Administration and the College of Agriculture. To accommodate the various needs of students, there are two options available in the agribusiness economics major: a) 40 hours in agriculture (The Agriculture Option) which provides a broad training in agriculture and b) 32 hours in agriculture (The Business-Economics Option) which provides less training in agriculture and more in economics and/or business.

Among career opportunities are grain merchandising, livestock marketing, farm credit, farm management, agribusiness management, sales of farm supplies (chemicals, machinery, feed, seed, petroleum), administration of farm programs, economic development specialist, agricultural extension and real estate sales and appraisal.

First Year		Fall	Spring
*GEA 106	Chemistry for Non-Science Majors	-	3
*GEA 115	Introductory Biology	3	-
GEB	Social Science <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	-	3
*GED 101	English Composition	3	-
*GED 102	English Composition II	-	3
GEE	Human Health and Well Being <sup>1</sup>	2	2
*MATH 139	Finite Mathematics	3	-
*ABE 204	Introduction to Agriculture Economics <sup>2</sup>	-	3
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices	1	-
		<u>15</u>	<u>17</u>
Second Year		Fall	Spring
PLSS 200	Principles of Field Crop Production	3	-
GEB	Social Studies <sup>1</sup>	3	-
GEC	Humanities <sup>1</sup>	3	3
*GED 153	Public Speaking	-	3
*MATH 140	Short Course in Calculus	-	4
*ECON 214, 215	Economics - Macro, Micro	3	3
	Electives <sup>3</sup>	3	3
		<u>15</u>	<u>16</u>

\*Required courses for a major in Agricultural Economics/Agribusiness.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>ABE 204 can be substituted as GEB credit.

<sup>3</sup>Accounting, quantitative methods, or agriculture recommended. Two courses in accounting are desirable.

### Third and Fourth Years

The last two years of the agricultural economics/agri-business curriculum are devoted to advanced courses in agricultural economics, agri-business, economics and business to meet the goals and objectives of the student. About twenty hours of free electives are included in the last two years of this curriculum.

### Agribusiness Economics (Agricultural Economics/Agri-business) As A Major

Class size 20-50; senior year 15-30. Students having an aptitude for social science, business, resource management or agriculture will find the program interesting and challenging. Those transferring from junior colleges can complete an Agricultural/Economics/Agri-business major in two years. No minor required. Credit for internships available. Internships typically occur over the summer but may be taken during any semester. Masters degree available in Agricultural Economics and Ag Services.

**Representative First Job Titles:** Agricultural Sales, Sales Management, Commodity Merchandiser, Agricultural Program Administrator, Agricultural Commodities Inspector, Farm loan Officer, Farm Management, Agricultural Economist, Agricultural Management Specialist, Agricultural Marketing Specialist, Agricultural Market Reporter, Economic Development Specialist.

**AGRICULTURE GENERAL**  
(Agricultural Education Specialization)  
College of Agriculture  
(Bachelor of Science)

Dr. James Legacy, Prof.  
AGED Coordinator  
Telephone - 618-536-7733  
Agriculture Building, Room 158B

Students who major in general agriculture at SIUC get the best of many worlds. They may pick and choose from among the best courses, the best teachers, and the best activities in the Department of Agricultural Education and Mechanization where they can specialize in either education, information, mechanization, or production.

Completion of a four-year course of study in the Agricultural Education Specialization leads to certification as a teacher of agricultural occupations. Students have the opportunity to specialize in one of the following areas: Agribusiness, Power and Machinery, Horticulture, and Agriculture Resources.

Employment opportunities for agricultural education majors are excellent not only as teachers in high schools and community colleges, but the breadth of training also provides educational background needed for adult training programs provided by high schools, colleges, extension service, and industry. Many international agricultural positions are open to persons with this training. This curriculum also provides the educational background sought by many agribusiness firms for sales and management training positions.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 106	Chemistry for Non-Science Majors <sup>1</sup>	-	3
GEA 115	Biology	3	-
GEB	Social Studies (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GED 107	Intermediate Algebra <sup>3</sup>	3	-
GEE 201	Healthful Living <sup>2</sup>	2	-
AGEM 171-4	Intro to Agricultural Mechanization	-	4
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices	1	-
	Electives	-	2
		<u>15</u>	<u>18</u>
<u>Second Year</u>			
GEA	Science (select)	3	-
GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GEB 114 or	Intro. to American Government & Politics or		
GEB 301	Modern America from 1877 to Present <sup>2</sup>	-	3
GEC	Literature (select)	-	3
GEC	Humanities (select) <sup>2</sup>	3	-
GED 153	Public Speaking <sup>2</sup>	3	-
GEE	P.E. Activity <sup>2</sup>	1	1
PLSS 200	Principles of Field Crop Production	-	3
AGEM 314	Agricultural Information Programs	3	-
ABE 204	Introduction to Ag. Economics	-	3
	Electives <sup>4</sup>	-	3
		<u>16</u>	<u>16</u>

<sup>1</sup>A student with background and interest in chemistry is recommended to take a higher level of chemistry.

<sup>2</sup>Courses required for certification include GEB 202; GEB 212, or 301; GED 101, GED 102; GED 153; GEE 100-114 (2 hrs.) GEE 201; and one additional English course from GEC, GED or department.

<sup>3</sup>College Algebra recommended.

<sup>4</sup>Student should consult with agriculture counselor regarding options available for agriculture electives.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives and electives. Important - see requirements for entrance into the Teacher Education Program.

Agricultural Education

A student may select one of four agricultural specialty options for major emphasis. Information about these specialties may be secured from the department.

No minor required. No foreign language required. Approximate class size 30. Masters degree available in Agricultural Education. Methods and student teaching will be stressed junior and senior years. Courses in both the College of Agriculture and the College of Education are included.



**AGRICULTURE GENERAL**  
 (Agricultural Information Specialization)  
 College of Agriculture  
 (Bachelor of Science)

Dr. James Legacy, Professor  
 Telephone - 618-536-7733  
 Agriculture Building, Room 223

Students who major in general agriculture at SIUC get the best of many worlds. They may pick and choose from among the best courses, the best teachers, and the best activities in the Department of Agricultural Education and Mechanization where they can specialize in either education, information, mechanization, or production.

The Agricultural Information Specialization is intended for those students who plan to be involved in agricultural education programs in extension, post-secondary educational institutions, and industry. Persons desiring to be certified for public secondary teaching should follow the Agricultural Education major.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
*GEA 106	Chemistry for Non-Science Majors <sup>1</sup>	-	3
*GEA 115	Biology	3	-
GEB	Social Studies	-	3
GEC	Humanities <sup>4</sup>	3	3
*GED 101	English Composition	3	-
*GED 102	English Composition II	-	3
GED 107	Intermediate Algebra <sup>2</sup>	3	-
GEE	Human Health and Well Being <sup>4</sup>	-	2
AGEM 171-4	Intro to Agricultural Mechanization	-	4
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices	1	-
		<u>16</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>4</sup>	3	-
*GEB 108 or	The Sociological Perspective or		
GEB 202	Introduction to Psychology	3	-
GEB	Social Studies <sup>4</sup>	-	3
GEC	Humanities <sup>4</sup>	-	3
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being <sup>4</sup>	1	1
AGEM 314	Agricultural Information Programs	-	3
PLSS 200	Principles of Field Crop Production	-	3
ABE 204	Introduction to Ag. Economics <sup>3</sup>	3	-
	Electives	3	3
		<u>16</u>	<u>16</u>

\*Required or strongly recommended courses for Agricultural Information Specialization.

<sup>1</sup>A student with background and interest in chemistry is recommended to take a higher level of chemistry.

<sup>2</sup>College Algebra recommended.

<sup>3</sup>ABE 204 can be substituted as GEB credit.

<sup>4</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

**Third and Fourth Years**

The last two years of a student's program concentrates on specific professional objectives and electives.

**Agricultural Information**

No minor required. No foreign language required. Approximate class size 30. Master's degree available in Agricultural Education and Mechanization.

**Representative First Job Titles:** Agricultural Communications Specialist in Newspaper, Radio, Television, Advertising or Agricultural Photojournalism; Agricultural Microcomputer Application Specialist, Assistant County Extension Advisor; Product Education Specialist; Assistant Manager (Farm Supply Business); Agricultural Industry Representative; Agricultural Manager; Sales Representative.

Students who major in general agriculture at SIUC get the best of many worlds. They may pick and choose from among the best courses, the best teachers, and the best activities in the Department of Agricultural Education and Mechanization where they can specialize in either education, information, mechanization, or production.

The Agricultural Mechanization Specialization is designed to prepare individuals for attractive careers in agriculture and related businesses, in industries that are related to agriculture, or to continue their professional development by entering graduate school. A few career opportunities include: grain elevator operations; farm supply sales; operational positions in the processing industry; power use advisors with electric power supplying agencies and companies; field testing of farm equipment; product education positions; service representatives for the various power and machinery companies; farming, and farm management. Due to the extensive mechanization and technology in agriculture and the related industries, employment opportunities are excellent.

Courses in agricultural mechanization are offered in construction and repair processes; agricultural power and machinery; agricultural electrification; agricultural buildings and structures; soil and water conservation; and agricultural materials processing, handling, and storage.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
*GEA 106	Chemistry for Non-Science Majors	-	3
*GEA 115	Biology	3	-
*GED 101	English Composition	3	-
*GED 102	English Composition II	-	3
GEE	Human Health and Well Being <sup>1</sup>	2	2
AGEM 171-174	Intro to Agricultural Mechanization	-	4
*ANS 121	Science of Animals that Serve Mankind	3	-
*ANS 122	Production and Processing Practices	1	-
*MATH 108 & 109	College Algebra and Trigonometry	3	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies <sup>1</sup>	3	-
GEC	Humanities <sup>1</sup>	3	3
*GED 153	Public Speaking	-	3
*ABE 204	Introduction to Ag Economics	3	-
*PHYS 203 a,b	College Physics	3	3
PLSS 200	Principles of Field Crop Production	-	3
	Electives	2	-
		<u>14</u>	<u>12</u>

\*Required or strongly recommended courses for Agricultural Mechanization majors.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

### Third and Fourth Years

The last two years of the individual's program concentrate on work that best leads the individual toward his or her professional goals. The individual will complete 38 semester hours in agriculture of which 18 hours are in agricultural mechanization and 27 semester hours are approved free electives. Elective courses may be taken in agriculture or supporting areas.

Individuals do not need to have an agricultural background to study in the Agricultural Mechanization Specialization.

Internships are encouraged for the summer terms. No minor required. No foreign language required. Masters degree available. Class size 20-50; senior year 15-30. Department sponsors special workshops on campus.

Representative First Job Titles: Farm Machinery Sales and Service, Power Use Advisor, Agricultural Commodities Inspector, Agricultural Commodity Warehouse Examiner, Agricultural Industry's Representative, Farm Manager, Industrial Relations Specialist, Industrial Property Management Specialist, Agricultural Manager, Agribusiness Technician, Agricultural Engineer, Soil and Water Conservationist, Agriculture Business Manager.

AGRICULTURE GENERAL  
(Agricultural Production Specialization)  
College of Agriculture  
(Bachelor of Science)

Dr. Robert L. Wolff, Chair  
Chief Academic Advisor  
Telephone - 618-536-7733  
Agriculture Building, Room 223

Students who major in general agriculture at SIUC get the best of many worlds. They may pick and choose from among the best courses, the best teachers, and the best activities in the Department of Agricultural Education and Mechanization where they can specialize in either education, information, mechanization, or production.

The specialists in agricultural production prepare for the many agricultural production-related careers in farming and agricultural services, business and industry.

Students in this major gain basic preparation for many of the agricultural careers: general farming, agricultural services, agricultural extension, agricultural communication, agricultural business, agricultural industry and agricultural production.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology	4	-
GEB	Social Studies (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>1</sup>	-	3
MATH 107 or	Intermediate Algebra or		
MATH 108	College Algebra	3-5	-
AGEM 171-4	Intro to Agricultural Mechanization	-	4
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices	1	-
CHEM 140a	Chemistry	-	4
		<u>14-16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 153	Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
BOT 200	General Botany and Lab	4	-
CHEM 140b	Chemistry	4	-
PLSS 200	Principles of Field Crop Production	3	-
AGEM 372	Agricultural Production Machinery	-	3
ABE 204	Introduction to Ag. Economics <sup>2</sup>	-	3
		<u>16</u>	<u>17</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section General Education for the Transfer Student.

<sup>2</sup>Agribusiness Economics 204 substitutes as GEB credit as well as counting as hours toward the major.

Requirements include a minimum of 24 semester hours of courses in four departments within the College of Agriculture plus additional elective courses in agriculture or forestry to complete a total of 29 semester hours. An additional 31 semester hours of electives are required and may be taken in Agriculture or other areas of study.

Agricultural Production

No minor required; no foreign language required.



ALLIED HEALTH CAREERS SPECIALTIES

College of Technical Careers  
(Associate in Applied Science)

Frederic Morgan, Coordinator  
Telephone - 618-453-7211  
Technical Careers Building  
Room 16

Allied Health Careers Specialties is a highly individualized program which prepares graduates for service in medical facilities where they may be employed as a single or multi-competent technician. In general, students take a common core of coursework during the first year. This core includes courses such as physiology, human anatomy, medical terminology, English composition, speech and college algebra. The remainder of the degree is in specialty courses and clinical studies. The clinical studies are based upon this basic coursework. The majority of the clinical studies will be completed off-campus in health care facilities. The program leads to an associate degree.

In addition to meeting University admission requirements, students must also contact the program coordinator above for details on admission to the program. Enrollment in the program is limited due to limited clinical facilities.

Students in the clinical portion of the program should expect to spend approximately \$135.00 per clinical specialty for uniforms, materials, and insurance, in addition to tuition and fees. Students must furnish transportation to off-campus clinical experiences.

For specific information on the program and its specialized application, contact the coordinator.

Also see: Radiological Technology and Respiratory Therapy.

**ANIMAL SCIENCE**  
(Equine Science Specialization)  
College of Agriculture  
(Bachelor of Science)

Dr. Robert D. Arthur, Chair  
Telephone - 618-453-2329  
Agriculture Building, Room 127

Instruction, demonstration, and consultation are provided in dairy, horse, livestock and poultry production, meats and animal hygiene. Courses are offered in all phases of animal production and management including meats, animal hygiene, reproduction, animal breeding and nutrition.

The student has the opportunity to select courses in other areas of agriculture or related fields, such as business, communications, or physical sciences. This selection allows the student to include in his or her education the agronomic, agricultural economic, and agricultural engineering phases of agriculture, pre-veterinary medicine, or business as related to animal production.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Zoology	4	-
GEB	Social Studies <sup>1</sup>	3	3
GEC	Humanities <sup>1</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being <sup>1</sup>	2	2
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices of the Animal Industry	1	-
ABE 204	Agribusiness Economics	-	3
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies	-	3
GEC	Humanities	3	3
GED 153	Public Speaking	-	3
AG	Agriculture Electives	3	3
CHEM 140 a,b	Chemistry <sup>2</sup>	4	4
ANS 331	Physiology, Growth, and Development of Farm Animals	4	-
PHSL 208	Physiology Lab	1	-
		<u>15</u>	<u>16</u>

<sup>1</sup>See General Education for the Transfer Student for information on SIUC's General Education requirements.

<sup>2</sup>Substitutes for GEA Chemistry.

Third and Fourth Years

Courses during the last two years of a student's program concentrate on requirements for the specialization. Most of the student's agricultural courses for the major will be in animal science but students can also select courses from agronomy, horticulture, forestry, agricultural mechanization, agricultural education, microcomputers in agriculture, agribusiness and economics and farm management. Other classes help the student to meet basic University requirements. During the last two years, each student is required to complete a practicum in the equine industry.

Animal Science As A Major

The animal science major is backed up with extensive facilities for several species of livestock, and every student has the opportunity to get involved in work, research or observation at the University Farm. The core of our animal science program is the 2,000 acre farm system which includes special centers for beef, dairy, horses and swine. Many students work at the various livestock centers and the laboratories to help defray the cost of education as well as to gain valuable experience. An intern course also enables a student to work in special areas (away from campus) and receive credit. Graduates are prepared for employment in many phases of animal agriculture. The department maintains close contact with the industry and assists in placing graduates in permanent positions.

No minor required. No foreign language required. Most of teaching staff have advanced degrees (Ph.D.). Graduate programs are available. Class size 20-60; senior year 10-30.

Representative First Job Titles: General Manager, Farm Manager, Trainer/Assistant Trainer, Stallion or Broodmare Manager/Assistant Manager, Equine Health Technician, Assistant Marketing Director, Superintendent of Horses or Herdsman, Racetrack Official, Events Manager or Assistant Manager.

ANIMAL SCIENCE  
(Production Specialization)  
College of Agriculture  
(Bachelor of Science)

Dr. Robert D. Arthur, Chair  
Telephone - 618-453-2329  
Agriculture Building, Room 127

Instruction, demonstration, and consultation are provided in dairy, horse, livestock and poultry production, meats and animal hygiene. Courses are offered in all phases of animal production and management including meats, animal hygiene, reproduction, animal breeding and nutrition.

The student has the opportunity to select courses in other areas of agriculture or related fields such as business, communications, or physical sciences. This selection allows the student to include in his or her education the agronomic, agricultural economic, and agricultural engineering phases of agriculture, pre-veterinary medicine, or business as related to animal production.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Zoology	4	-
GEB	Social Studies <sup>1</sup>	3	3
GEC	Humanities <sup>1</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being <sup>1</sup>	2	2
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices of the Animal Industry	1	-
ABE 204	Agribusiness Economics	-	3
		16	17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies	-	3
GEC	Humanities	3	3
GED 153	Public Speaking	-	3
AG	Agriculture Electives	3	3
CHEM 140 a,b	Chemistry <sup>2</sup>	4	4
ANS 331	Physiology, Growth, and Development of Farm Animals	4	-
PHSL 208	Physiology Lab	1	-
		15	16

<sup>1</sup>See General Education for the Transfer Student for information on SIUC's General Education requirements.

<sup>2</sup>Substitutes for GEA Chemistry.

Third and Fourth Years

Courses during the last two years of a student's program concentrate on requirements for the specialization. Most of the student's agricultural courses for the major will be in animal science but students can also select courses from agronomy, horticulture, forestry, agricultural education, microcomputers in agriculture, agricultural mechanization, agribusiness and economics and farm management. Other classes help the student to meet basic University requirements.

Animal Science As A Major

The animal science major is backed up with extensive facilities for several species of livestock, and every student has the opportunity to get involved in work, research or observation at the University Farm. The core of our animal science program is the 2,000 acre farm system which includes special centers for beef, dairy, horses and swine. Many students work at the various livestock centers and the laboratories to help defray the cost of education as well as to gain valuable experience. An intern course also enables a student to work in special areas (away from campus) and receive credit. Graduates are prepared for employment in many phases of animal agriculture. The department maintains close contact with the industry and assists in placing graduates in permanent positions.

No minor required. No foreign language required. Most of teaching staff have advanced degrees (Ph.D.). Graduate programs are available. Class size 20-60; senior year 10-30.

Representative First Job Titles: Animal Husbandman, Animal Physiologist, Animal Breeding Expert, Swine Herdsman, Animal Industry Representative, Animal Hygiene Specialist, Farm Manager, Dairy Cattle Manager, Product Evaluator, Animal Control Biologist, Livestock Manager, Animal Nutrition Specialist, Poultry Manager.



**ANIMAL SCIENCE**  
(Science and Pre-Veterinary Medicine Specialization)  
College of Agriculture  
(Bachelor of Science)

Dr. Robert D. Arthur, Chair  
Telephone - 618-453-2329  
Agriculture Building, Room 127

Instruction, demonstration, and consultation are provided in dairy, horse, livestock and poultry production, meats, and animal hygiene. Courses are offered in all phases of animal production and management including meats, animal hygiene, reproduction, animal breeding and nutrition.

Completing the science and pre-veterinary option of the Animal Science major qualifies one for a B.S. degree, meets the course requirements for admission to a veterinary medicine program and serves as an excellent foundation for graduate work in Animal Science.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being <sup>5</sup>	2	2
ANS 121	Science of Animals that Serve Mankind	3	-
ANS 122	Production and Processing Practices of Animal Industry	1	-
BIOLOGY	(core suggested)	4	4
MATH 108, 109	College Algebra and Trigonometry <sup>1</sup>	3	3
	Agriculture Electives	-	3
		<hr/> 16	<hr/> 18
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies	-	3
GEC	Humanities	-	3
ABE 204	Agribusiness Economics <sup>4</sup>	3	-
ANS 331	Physiology, Growth and Development	4	-
CHEM 222a, b	Introduction to Chemical Principles <sup>2</sup>	4	4
PHSL 208	Physiology Lab	1	-
PHYS 203a,b	College Physics <sup>3</sup>	3	3
PHYS 253a,b	College Physics Lab	1	1
	Agriculture Elective	-	3
		<hr/> 16	<hr/> 17

<sup>1</sup>Substitutes for GED 107 (Math).

<sup>2</sup>Substitutes for GEA 106 (Chemistry).

<sup>3</sup>Substitutes for GEA 101 (Physics).

<sup>4</sup>ABE 204 can be substituted as GEB credit.

<sup>5</sup>See General Education for the Transfer Student for information on SIUC's General Education requirements.

### Third and Fourth Years

In addition to completing General Education requirements, chemistry, biochemistry and microbiology courses, the last two years of a student's program concentrate on specialization requirements. Most of the student's agricultural courses for the major will be in animal science but students can also select courses from agronomy, horticulture, forestry, agricultural education, microcomputers in agriculture, agricultural mechanization, agribusiness and economics, and farm management.

### Animal Science As A Major

The animal science major is backed up with extensive facilities for several species of livestock, and every student has the opportunity to get involved in work, research or observation at the University Farm. The core of our animal science program is the 2,000 acre farm system which includes special centers for beef, dairy, horses and swine.

Many students work at the various livestock centers and the laboratories to help defray the cost of education as well as to gain valuable experience. An intern course also enables a student to work in special areas (away from campus) and receive credit. Graduates are prepared for employment in many phases of animal agriculture. The department maintains close contact with the industry and assists in placing graduates in permanent positions.

No minor required. No foreign language required. Most of teaching staff have advanced degrees (Ph.D.). Graduate programs are available. Class size 20-60; senior year 10-30.

Representative First Job Titles: Animal Husbandman, Animal Physiologist, Animal Breeding Expert, Swine Herdsman, Animal Industry Representative, Animal Hygiene Specialist, Farm Manager, Dairy Cattle Manager, Product Evaluator, Animal Control Biologist, Livestock Manager, Animal Nutrition Specialist, Poultry Manager.

The undergraduate program in anthropology at SIUC gives students a broad and well-rounded exposure to the field. A variety of courses is offered in all four sub-fields; that is, archaeology, physical anthropology, linguistics, and socio-cultural anthropology. The core of the program is a set of four courses that introduce the student to the basic questions and issues of the sub-fields and the methods and techniques used to address them. This core is supplemented by specialty courses, such as those on societies in different geographic areas, economic and ecological anthropology, the anthropology of law, conservation archaeology, applied anthropology, human evolution, human genetics and demography, folklore, religion, language and culture, primate behavior, and origins of civilization. Several applied or "hands-on" courses are available for students to get actual experience in the laboratory and the field, as well as a practicum in museum studies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
Elective		3	-
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communications or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
FL	Foreign Language <sup>2</sup>	4	4
ANTH 300D,A	Sociocultural & Physical Anthropology <sup>4</sup>	3	3
ANTH 300B or C	Linguistic Anthropology or Archaeology	-	3
MATH or CS	Mathematics or Computer Science <sup>3</sup>	3	-
		<u>16</u>	<u>15</u>

<sup>1</sup> See General Education for the Transfer Student.

<sup>2</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college during Fall 1978 or later. However, four of these hours may be used for GEC credit. Students intending to pursue a graduate education should realize that a foreign language would likely be required for graduate school admission; for these students two years of foreign language is recommended.

<sup>3</sup> One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>4</sup> Sociocultural Anthropology is central to the core curriculum and should be taken as soon as possible. Any two of 300A, B, and C may be taken the second year. All four must be taken as a requirement for the major.

#### Anthropology As A Major

Resources for anthropology students include a large university library, a university museum, a fully equipped computer center, and the Center for Archaeological Investigations which carries out numerous projects. In addition, the anthropology department has physical anthropology, archaeology, and linguistic laboratories.

The anthropology faculty has a wide array of field and research experience in all sub-fields of the discipline. Faculty have conducted field research in Latin American and the Caribbean, Africa, Eastern and Southwestern United States, South and Southeast Asia, and the Pacific Islands. Some also have applied their anthropological knowledge to solving practical problems in various parts of the world.

Opportunities exist for undergraduates to get involved in anthropology outside the classroom. An archaeology field school is offered every summer, and students often work on varied field and laboratory research projects. An undergraduate Anthropology Club sponsors such activities as trips to nearby archaeological sites, lectures, and the annual picnic. In addition, visiting anthropologists from other universities present talks, and the SIUC faculty and graduate students regularly give informal lunchtime lectures about their current research.

Representative First Job Titles: Secondary or College Teacher, Museum Curator, Social Worker, Archaeologist, Contract Archaeologist, Applied Linguist, Park Service Historian, Population Analyst, Physical Anthropologist, Overseas Sales Representative, Personnel Officer, Archivist, Community Development Planner, Medical Anthropologist, Exhibit Preparator, Archival Worker.

This is not strictly a drafting program. A student in this program will gain as much knowledge and skill as can be provided in two years. The courses are divided between Design/Theory and Production/Technology. This will allow the graduate to be on an in-line track towards such specific positions as job captain, production leader, specification writer, architectural observer, architectural estimator, designer, or computer operator/programmer.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 153	Public Speaking	-	3
ARCH 111	Architectural Drafting	6	-
ARCH 112	Architectural Graphics	3	-
ARCH 113	Architectural History	3	-
ARCH 124	Architectural Drawings I	-	5
ARCH 125	Architectural Design I	-	4
TC 105a,b	Technical Mathematics	4	-
TC 107a,b	Applied Physics	-	4
		<u>19</u>	<u>19</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
ARCH 214	Architectural Drawings II	6	-
ARCH 215	Architectural Design II	4	-
ARCH 216	Architectural Structures I	4	-
ARCH 217	Architectural Systems	2	-
ARCH 219	Architectural Site Planning	2	-
ARCH 220	Architectural Specifications	-	2
ARCH 224	Architectural Drawings III	-	6
ARCH 225	Architectural Design III	-	4
ARCH 226	Architectural Structures II	-	4
ARCH 229	Architectural Estimating	-	2
		<u>18</u>	<u>18</u>

#### Electives

ARCH 316	Architectural Structures III	3
ARCH 318	Beginning CAD	3
ARCH 328	Computer Aided Drafting	3
ARCH 338	Computer Aided Design	3
ARCH 354	Architectural Project Development	8

Architectural Technology requires a minimum grade of 'C' for all major courses.

A minimum of 74 hours of credit must be completed for graduation.

#### Architectural Technology As A Major

Instruction is provided by graduate architects. Some are licensed and/or have Masters of Architecture degrees. Some of the faculty are members of the American Institute of Architects and/or the Construction Specifications Institute. Years of experience allow the faculty to teach courses that enable the student to understand: the architectural and design professions; components of the construction industry; the design and production process; the historical, mathematical and physical factors involved in all. This program covers building materials, systems and construction and preparation and interpretation of technical communications (architectural drawings, and architectural delineations).

In the courses in Computer Aided Drafting and Design, there are varied types of stations including color and three dimension in order to give the student the best opportunities in this discipline.

Allowance should be made in the student's budget of approximately \$450.00 for equipment and supplies.

Representative First Job Titles: Architectural Draftsman or Designer, Inspector, Specification Writer, Coordinator, Work Supervisor, Estimator.



ART

(Drawing)  
 (Painting)  
 (Printmaking)  
 (Sculpture)  
 (Ceramics)  
 (Metals)  
 (Fibers/Weaving)  
 College of Communications and Fine Arts  
 (Bachelor of Fine Arts)

L. Brent Kingston, Director  
 School of Art and Design  
 Telephone - 618-453-4315  
 Allyn Building, Room 109

Joyce Jolliff, Academic Adviser  
 Telephone - 618-453-4315  
 Allyn Building, Room 103

The Bachelor of Fine Arts degree program leads toward demonstrated competency in a particular studio discipline. It requires 135 semester hours for graduation; 46 hours in general education, 15 hours in art history and 75 hours in studio art.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science	-	3
GEC	Humanities <sup>1</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being	-	2
AD 100 a & b	Two-Dimensional and Three-Dimensional Design	3	3
AD 107	Fundamentals of Art <sup>1</sup>	3	-
AD 110	Intro to Drawing I	3	-
AD 120	Intro to Drawing II	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science	3	-
GEB	Social Science Course	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
AD 200	Intro to Drawing III	3	-
AD 201	Beginning Painting	-	3
AD 203	Beginning Sculpture	3	-
AD 204, 205 or 206	Beginning Ceramics, Metals, or Fibers	-	3
AD 207 a & b	Intro to Art History	3	3
AD 300	Intermediate Drawing	-	3
		<u>15</u>	<u>15</u>

<sup>1</sup> All specializations in the School of Art and Design receive six hours of GEC substitution for Art 100 a or b and Art 207a.

Art As A Major

The first two years are devoted primarily to study in core courses in art, design, art history and required and selected courses in general education. The remainder of the program involves intense junior- and senior-level study and practice in the selected art specializations. All students are required to participate in a B.F.A. seminar and present a senior exhibition. The School of Art and Design will evaluate all transfer credit that pertains to B.F.A. curricula.

Studio courses will be evaluated for transfer credit on the basis of presentation of the work (or professional quality slides of it) executed in the course(s). Beginning in Fall 1990, admission will be based on a portfolio review to be conducted no later than upon completion of 100a, 100b, 110 and 120.

The 135 semester hour program requirement is in keeping with the professional emphasis of the Bachelor of Fine Arts degree. An extra semester, or additional work during summer sessions, is usually required in order to complete the degree program.

Each year the School of Art and Design presents the Rickert-Ziebold Trust Award. It is a competition open to all graduating seniors. Those judged outstanding by the faculty share a \$20,000 annual award.

The School of Art and Design at Southern Illinois University at Carbondale is accredited by the National Association of Schools of Art and Design.

Representative First Job Titles: Many B.F.A. graduates go on to graduate school pursuing the Master of Fine Arts degree in their selected discipline. Others establish their own studios as independent artists and craftspersons or accept positions in discipline-related fields.

## ART

(Art History)  
(General Studio)  
College of Communications and Fine Arts  
(Bachelor of Arts)  
(Art Education)  
College of Communications and Fine Arts  
(Bachelor of Arts)  
College of Education  
(Bachelor of Science)

L. Brent Kington, Director  
School of Art and Design  
Telephone - 618-453-4315  
Allyn Building, Room 109

Joyce Jolliff, Academic Adviser  
Telephone - 618-453-4313  
Allyn Building, Room 103

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

The B.A. program in art education prepares students for earning the Illinois Standard Special Certificate to teach art on grade levels Kindergarten through twelve. Students learn studio practices, art history, basic art criticism, and aesthetics as these apply to the art classroom. The B.A. program in general studio enables undergraduate students to pursue studies in studio practices within more than one studio area of the School of Art and Design. The B.A. program in art history enables students to develop knowledge of art history, together with a strong studio component, and understanding of aesthetics leading to possible graduate studies, museum and gallery positions, and higher education instructional and research positions. The program contains 66 hours in art.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	-
GEB 114 or 301	American Government or American History <sup>3</sup>	-	3
GEC	Humanities <sup>2</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE 201	Healthful Living	-	2
AD 100 a & b	Basic Studio	3	3
AD 107	Fundamentals of Art	3	-
AD 110	Intro to Drawing I	3	-
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science	3	-
GEB	Social Science (select)	3	-
GEB 202	Introduction to Psychology <sup>3</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
AD 120	Introduction to Drawing II	-	3
AD 201	Beginning Painting	-	3
AD 203	Beginning Sculpture	3	-
AD 207 a & b	Intro to Art History	3	3
AD 204, 205 or 206	Beginning Ceramics, Metals, or Fibers	-	3
		<u>15</u>	<u>15</u>

<sup>1</sup>Three hours of Science are to be taken during the third year.

<sup>2</sup>Certain specializations require particular courses in the GEC area; art education requires a literature course and art history requires eight hours of French or German. All specializations in the School of Art and Design receive six hours of GEC substitution for Art 100 a or b and Art 207 a. During their third and fourth years, students in art education take 25 hours of professional education courses and 20 hours of the following: art education courses (10 hours), art history courses (3 elective hours), and studio courses (7 elective hours). During their third and fourth years, art history students take 30 hours from a rich variety of art history courses, and eleven hours of courses from outside the department.

<sup>3</sup>Students whose major specialization is art education must fulfill certain requirements in General Education. They must have at least a 'C' in GED 101 and 102 and also in their GEC literature course. From GEB, they must select GEB 202, psychology, and GEB 300, American History, or GEB 114, American Government. From GEC, they must select GEC 213, East Asian Civilization. From GEE, they must select GEE 201, Healthful Living, and two hours of activity.

<sup>4</sup>Art education students must take Art 204, Beginning Ceramics; Art 205, Beginning Jewelry and Metalsmithing; and either Art 202, Intro to Printmaking or Art 206, Beginning Fibers.

## Art Education As A Major

Students may pursue Art Education within either the College of Communications and Fine Arts or the College of Education. A student interested in the major should become aware of the requirements for entrance into the Teacher Education Program.

There are many unique features of the automotive technology program. One of the most outstanding features is our ability to meet the vast number of occupational goals of our students. Our graduates have obtained employment as service station owners, service technicians, service advisers and writers, service managers, parts managers, and owners of automobile dealerships. Beyond the associate degree, students may choose to continue their education and obtain a bachelor's degree and thus double their occupational opportunities. Positions are available as manufacturers district service manager, automotive instructor, technical writer, general service manager and training center director, to name a few.

Another unique feature is that SIUC's automotive technology program was the first program in Illinois to be Master certified by meeting the rigid standards of the National Institute for Automotive Service Excellence.

The student is expected to provide his/her tool kit consisting of both domestic and metric tools and supplies. The cost of the tool set is approximately \$400 to \$600.

During the first year, students are required to enroll in a series of core courses which provide them with the opportunity to obtain and develop those skills and technical information considered essential to all service technicians. During the second year students may choose any four of eight possible areas. In most cases, these courses will deal with advanced instruction in areas covered in the core courses.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	3	-
GED 153	Public Speaking	-	3
AUT 101	Automotive Engines & Fuel Systems Lab	3.5	-
AUT 121	Basic Automotive Engines&Fuel Systems Theory	3	-
AUT 103	Brakes and Chassis Lab	3.5	-
AUT 123	Brakes and Chassis Theory	3	-
AUT 115	Related Shop Lab	1	-
AUT 105	Engine Electrical Lab	-	3.5
AUT 125	Engine Electrical Theory	-	3
AUT 107	Drive Trains Lab	-	3.5
AUT 127	Drive Trains Theory	-	3
TC 105A	Technical Mathematics	-	2
		<u>17</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Elective	-	3
TC 107a,b	Applied Physics	4	-
AUT *	Automotive Lab & Theory	13	13
GED 102	English Composition II	-	3
		<u>17</u>	<u>19</u>

\*200-Level Automotive Courses: With the aid of an advisor and availability of courses, the student must choose four areas of study (two per semester) from the following list of courses.

	<u>Lab</u>	<u>Theory</u>
Automatic Transmissions	AUT 201-3.5	AUT 221-3
Automotive Body and Chassis Electrical	AUT 203-3.5	AUT 223-3
Automotive Air Conditioning	AUT 204-3.5	AUT 224-3
Electronic Fuel and Emission Controls	AUT 205-3.5	AUT 225-3
Brakes and Suspension Systems	AUT 207-3.5	AUT 227-3
Engine Rebuilding	AUT 208-3.5	AUT 228-3
Engine Electronics	AUT 209-3.5	AUT 229-3
Diesel Fuel and Electrical Systems	AUT 210-3.5	AUT 230-3

A TWO YEAR ASSOCIATE DEGREE COOPERATIVE PROGRAM  
AUTOMOTIVE SERVICE EDUCATIONAL PROGRAM

Charles Romack  
ASEP Supervisor  
Telephone - 618-985-4024  
Carterville Campus

The General Motors Automotive Service Educational Program (ASEP) is a two year technical program designed to provide highly competent automotive service specialists for GM dealerships. The approved curriculum will be delivered in a format and sequence identified and designed by General Motors representatives and the faculty of the automotive technology program at SIUC. The program leads to an associate in applied science degree with a major in automotive technology. The program requires student attendance in the classrooms and laboratories of SIUC and cooperative work experience in GM dealerships.

The entire program is 24 months with approximately one-half of the time designed for a technical academic background at SIUC. The remaining time is allocated for on-the-job experience at sponsoring GM dealerships. Each block of curriculum course areas is followed by an immediate dealership work experience time period which reinforces the academic curriculum. It is essential for the success of the program that academic/laboratory and practical work experience are closely aligned for maximum student learning and retention.



<u>First Year</u>		<u>Credit</u>	<u>Hours</u>	<u>Weeks</u>
AUT 101	Engine & Fuel System-Lab	3.5	112	8
AUT 121	Engine & Fuel Systems-Theory	3	48	8
AUT 125	Engine Electrical	3	80	4
AUT 229	Engine Electronics	3	80	4
GED 101	English Composition	3	48	16
TC 105a	Technical Math	2	32	8
AUT 219	Co-Op Work Experience	7	680	17
AUT 221	Automatic Transmissions-Theory	3	42	7
AUT 201	Automatic Transmissions-Lab	3.5	98	7
AUT 123	Brakes & Suspension	3	100	5
GED 153	Public Speaking	3	40	8
GEB	Social Science Elective	3	40	8
		40	1400	45

<u>Second Year</u>		<u>Credit</u>	<u>Hours</u>	<u>Weeks</u>
AUT 219	Co-Op Work Experience	7	760	19
AUT 223	Body & Chassis Electrical	3	80	4
AUT 224	Automotive Air Conditioning	3	80	4
AUT 205	Elec. Fuel & Emissions-Lab	3.5	112	8
AUT 225	Elec. Fuel & Emissions-Theory	3	48	8
GED 102	English Composition II	3	32	16
TC 107a	Applied Physics	2	32	8
TC 107b	Applied Physics	2	32	8
AUT 219	Co-Op Work Experience at Dealership	4	640	16
AUT 219	Co-Op Work Experience	4	480	12
		30.5	1656	47

#### ADVANCED TECHNICAL AUTOMOTIVE STUDIES THROUGH THIRD YEAR SPECIALIZATIONS

Any student who has successfully completed the associate in applied science degree in automotive technology either at SIUC, a community college or other accredited post-secondary institution may continue advanced technical automotive studies for a third year specialization. These 300-level (junior year) automotive courses may also be applied toward the bachelor of science degree in Advanced Technical Studies, provided other degree requirements have been completed. Two specializations are available.

##### Advanced Studies in Automotive Electronics

AUT 301-A	5	Electronic Engine Controls
AUT 301-B	5	Computer Controlled Fuel & Emission Systems
AUT 301-C	5	Body & Chassis Electronics
AUT 301-D	5	Comfort Control Systems

##### Advanced Studies in Automotive Power Trains

AUT 302-A	5	Engine Machining Techniques
AUT 302-B	5	Diesel Fuel Injection Service
AUT 302-C	5	Conventional & Front Wheel Drive Power Trans.
AUT 302-D	5	Uni-body & Front Wheel Suspension & Brake Sys.

Each area of study in these specializations requires twenty clock hours of laboratory per week for eight weeks. Pre-requisite for these specializations is completion of the associate degree program or consent of the program coordinator.

In addition to the third year specialization, students have the option of designing a course of study that meets their specific occupational goals and also earn a bachelor of science degree in Advanced Technical Studies.

#### BACHELOR OF SCIENCE DEGREE OPTIONS AT SIUC

Graduates of associate in applied science programs in automotive technology at SIUC or other accredited post-secondary institutions have a variety of options in pursuing the bachelor's degree at SIUC. These include:

A four year program designed for those interested in management positions in the automotive industry. This is the bachelor of science degree program in Advanced Technical Studies with an emphasis on automotive management or automotive service operations.

A four year teacher training program designed to prepare students as automotive instructors. This is the bachelor of science degree in vocational education studies.

A specialized four year cooperative program with the Oldsmobile Division of General Motors is designed to develop graduates as district service managers. This program is also offered under the bachelor of science degree program in Advanced Technical Studies, but admission requires concurrence of the corporation.

Additional automotive educational opportunities available at SIUC include a cooperative program with MOOG/EVERCO which is designed to train technical representatives.

The program of professional flight instruction at SIUC is designed for students who wish to pursue the AAS Aviation Flight/B.S. in Aviation Management program. Admission to SIUC's BS in Aviation Management normally requires completion of an SIUC or equivalent associate degree in a technical aviation curriculum. As a result, freshmen students who wish to pursue the BS in Aviation Management must apply for admission to the Aviation Flight degree program.

**NOTE:** Admission to the Aviation Flight program at SIUC is determined by a selective admission process whereby the most qualified students are selected from applicants. All students who wish to pursue Aviation Flight as a major or students who wish to pursue Aviation Flight as a second major must complete the Aviation Flight application process in addition to the application to SIUC.

Aviation flight at SIUC is conducted at the Southern Illinois Airport, approximately three miles from the main campus. Free bus transportation to and from the airport is provided by the University. The SIUC Aviation Flight program is an FAA 141 approved certificated Pilot School with examining authority, providing comprehensive flight training which includes instruction for the most basic certificate (Private Pilot) to the most advanced (Airline Transport Pilot).

Additional costs are incurred by students pursuing professional aviation. Realistically, students should plan on spending approximately \$15,000 in order to obtain the flight qualifications needed for employment. These flight costs are in addition to tuition and fees, room and board, etc. Flight instruction required in the Aviation Flight curriculum includes the Private Pilot, Commercial/Instrument, and Multi-Engine licenses and ratings.

**SUGGESTED  
AVIATION FLIGHT CURRICULUM (see note)**

FIRST YEAR		SECOND YEAR	
<u>Semester I</u>		<u>Semester III</u>	
AF 200	3	AF 205	3
AF 201	5	AF 204	5
ATA 101	3	GED 101	3
ATA 200	4	GED 107	3
	<u>15</u>		<u>14</u>
<u>Semester II</u>		<u>Semester IV</u>	
AF 202	3	AF 260	4
AF 203	5	AF 206	4
GED 153	3	GED 102	3
GEA 330	3	Physics 203a, 253a or	
	<u>14</u>	TC 107a & b	4
			<u>15</u>
		<u>Summer Semester</u>	
NOTE: May require a summer registration		AF 207	2

**Post-Associate Aviation Flight Courses**

Additional courses are available for graduates of the associate degree program who wish to become FAA certified flight instructors for single engine, multi-engine and instrument. Additional costs are also associated with these courses.

**NOTE:** Availability of post-associate courses is subject to the availability of instructional staff and equipment.

\* Also see Aviation Management.

\*\* Transfer students with more than 26 semester hours of coursework and previous flight experience should contact the Aviation Counselor to determine whether they can apply directly to the bachelor's degree program or should apply for admission to the Aviation Flight associate degree program.

Upon graduation, the student receives the Associate in Applied Science degree, and depending on his or her area of concentration, is qualified to obtain the Federal Aviation Administration (FAA) Airman Airframe and Powerplant certificate as an A & P maintenance technician.

Skilled technicians are in demand in the rapidly-growing aviation industry, both in airlines and general aviation. The industry demands people who possess a wide range of knowledge and ability provided by general education as well as special technical training.

The student studies reciprocating and jet powerplants, hydraulics, fuel systems, ignition-starting systems, carburetion and lubricating systems, instruments, and powerplant testing in coordinated classroom and laboratory work. The program is fully accredited by the Federal Aviation Administration.

<u>FIRST SEMESTER</u>		<u>CR. HR.</u>	<u>LEC. HR.</u>	<u>LAB HR.</u>
GED 101	English Composition	3	3	0
*TG 105A	Technical Math	2	2	0
AMT 111	Materials Processing	4	3	2
AMT 112	Aircraft Electricity	4	2	5
AMT 113	Federal Aviation Regulations	2	2	2
AMT 114	Aircraft Weight and Balance	2	2	2
AMT 201	Applied Science	2	2	2
TOTALS		19	16	13

<u>SECOND SEMESTER</u>				
AMT 116	Aircraft Instruments	3	2	2
AMT 210	Aircraft Electrical Systems	2	1	3
AMT 211	Reciprocating Powerplant	5	3	6
AMT 212	Carburetion, Lubrication	5	3	4
AMT 213	Ignition Systems	5	3	3
TOTALS		20	12	18

<u>THIRD SEMESTER</u>				
GED 102	English Composition II	3	2	0
AMT 203	Aircraft Aerodynamics	2	2	2
AMT 206	Metals Processing	3	2	3
AMT 214	Propellers	3	2	2
AMT 215	Powerplant Testing	5	3	4
AMT 216	Jet Propulsion Powerplant	6	4	4
TOTALS		22	15	15

<u>FOURTH SEMESTER</u>				
GEB	Elective	3	3	0
GEB	Elective	3	2	0
GED 152	Interpersonal Communication	3	3	0
AMT 110	Aircraft Structures	4	2	5
AMT 204	Aircraft Hydraulics	4	2	4
AMT 205	Cabin Environment and Jet Transport Systems	6	4	4
TOTALS		23	16	13

<u>SUMMER SESSION (8 weeks only)</u>				
AMT 225	Aircraft Inspections	6	5	15
AMT 230	Powerplant Inspections	6	5	15
TOTALS		12	10	30

\*Students who have intermediate algebra and plane geometry are advised to take a more advanced mathematics course.

A minimum of 84 hours credit is required for the Associate Degree in Applied Science. Students who wish to qualify for the FAA Airframe and Powerplant License are required to take eight weeks of summer school.



### Aviation Maintenance Technology As A Major

Aviation maintenance technology facilities are located at the Southern Illinois Airport, three miles NNW of the Carbondale campus and three miles ENE of Murphysboro, Illinois.

Students entering the aviation maintenance technology program for the first time must purchase a basic tool kit and special study materials costing approximately \$450.00.

The Aviation Maintenance Technology program is acclaimed by many branches of the aviation industry and government agencies as the best school in the nation. It prepares students on animated training panels representing the modern jet transports such as: Boeing 707, 727, 747 and Douglas DC8, DC9, and DC10 aircraft.

Students may join various student organizations such as Alpha Eta Rho International Aviation Fraternity, the Rotary Wing Association of America, a flying club, an avionics club and even a radio control model airplane club. Members of these organizations often sponsor events like fly-ins, air shows, and field trips to sites of aviation activities.

Executives in the aviation industry constitute an advisory committee which serves the program.

Representative First Job Titles: A&P Mechanic, Maintenance Technician.

The College of Technical Careers offers a bachelor of science in aviation management. The aviation management major is designed to build upon technical training and experience in aviation maintenance, flight, avionics technology, air traffic control, aircraft operations support or other aviation related fields. An AAS degree in an aviation field is preferred.

The program of study for the aviation management major combines SIUC general education requirements, program major requirements, approved major electives, and Advanced Technical Studies core courses in a comprehensive and flexible curriculum. Students may pursue the Federal Aviation Administration approved Airway Science curriculum and the United Airlines/SIUC cooperative curriculum through this program. The 46 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 45 to 30.

**First Year\*\***

GEA	Science (select)	3	3
GEB	Social Science (select)	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 107	Intermediate Algebra	-	3
GEE 107 or 201			
or 236	Human Health and Well Being (select)	2	-
Electives or	Technical Specialization	7	5
		<u>18</u>	<u>17</u>

**Second Year\*\***

GEA	Science (select)	3	-
GEB	Social Science (select)	3	3
GEC	Humanities (select)	-	3
GED 102	English Composition II	-	3
GED 152	Interpersonal Communication or		
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (Activity)	-	2
Electives or	Technical Specialization	9	8
		<u>18</u>	<u>19</u>

\*GE Total = 46 hours. See advisor to determine eligibility for Capstone option.

\*\*First and second year courses can also follow one of the SIUC AAS degree programs in aviation or the Airway Science curriculum.

**Third and Fourth Years**

ATS core courses -- 12 hours required	
ATS 364	Work Center Management 3
ATS 416	Applications of Technical Information 3

**Two of the following:**

ATS 332	Labor Management Problems 3
ATS 383	Data Interpretation 3
ATS 421	Professional Development 3
	<u>12</u>

**Aviation Management Specialization Requirements -- 15 hours required**

ATS 370	Airport Planning 3
ATS 371	Aviation Industrial Regulations 3
ATS 372	Airport Management 3
ATS 373	Airline Management 3
ATS 374	General Aviation Operations 3
ATS 375	Legal Aspects of Aviation 3
ATS 376	Aviation Maintenance Management 3
ATS 377	Aviation Safety Management 3
ATS 378	National Airspace System 3
ATS 386	Fiscal Aspects of Aviation Mgmt. 3
ATS 401	Current Issues in Aviation Mgmt. 3
	<u>15</u>

Aviation Management Specialization electives - 9 hours required.  
 (Must be approved by advisor).

Internship, Independent Study, or approved equivalent - 12 hours required.  
 Approved career electives - 26 hours (AAS in an aviation-related field preferred).

**TOTAL: 120 hours**

Avionics, or aircraft electronics, is a rapidly growing field requiring highly skilled technicians for work in the development, installation, and maintenance of the sophisticated avionics systems required for effective utilization of modern day aircraft by the aviation industry. The avionics technician finds opportunities for employment with the airline industry, general aviation, and in aircraft manufacturing, where employees will install, maintain, test and repair airborne communications and navigation systems, airborne radar systems, and related equipment.

All instruction is programmed in a balanced combination of classroom lecture and actual "hands on" laboratory experience under the supervision of instructors who have extensive experience and expertise in their respective fields.

The student will have courses in basic direct current, alternating current, electrical power systems, airborne, auxiliary power systems, electrical generation and distribution, load transfer, solid state devices, aircraft communications and navigation systems, instrumentation systems, and aircraft integrated flight systems, receivers, and transceiver, pulse and microwave systems, antenna types, wave propagation and transmission lines, and Federal Aviation Administration and Federal Communication Commission regulations.

In addition to regular University tuition and fees, the student is required to purchase basic tool kits and study materials at an approximate cost of \$450.00.

<u>First Semester</u>		<u>CR.</u>	<u>LEC.</u>	<u>LAB</u>
ATA 120	Avionics Circuit Analysis	8	8	0
ATA 125	Avionics Laboratory I	5	0	10
ATA 101	Avionics Systems	3	3	0
TC 105 a,b	Technical Mathematics	4	4	0
TOTALS		20	15	10
<u>Second Semester</u>				
ATA 130	Avionics Electronics Circuits	5	5	0
ATA 135	Avionics Electronics Cir.-Lab	5	0	10
ATA 210	Aircraft Electrical Systems	2	1	3
GED 152	Interpersonal Communications	3	3	0
GED 101	English Composition	3	3	0
TOTALS		18	12	13
<u>Third Semester</u>				
ATA 203	Avionics Shop Practices	3	3	0
ATA 204	Avionics Shop Lab	3	0	6
ATA 235	Flight System Theory	6	6	0
ATA 236	Avionics Laboratory	5	0	10
GED 102	English Composition II	3	3	0
TOTALS		20	12	16
<u>Fourth Semester</u>				
ATA 233	Aircraft Communications & Navigation System Theory	5	5	0
ATA 234	Avionics Laboratory	6	0	12
ATA 237	Avionics Logic Circuits & Pulse System Theory	5	5	0
ATA 238	Avionics Laboratory	5	0	10
TOTALS		21	10	22
<u>Post Associate Courses*</u>				
ATA 302	Avionics Laboratory	3	-	-
ATA 303	FCC Regulations	2	-	-
ATA 304	Avionics Radar System Theory	4	-	-
ATA 350	Microcomputers for Aviation Professionals	4	-	-
ATA 360	Avionics Data Bussing & Elt. Flt. Instr. Sys.	5	-	-
ATA 365	Avionics Data Bussing & Elt. Flt. Laboratory	4	-	-
ATA 370	Reliability, Maintainability, Fault Prediction and Analysis	5	-	-

\*To meet federal and industry requirements, the student should plan to take these additional courses offered as a post-associate specialty.

A minimum of 78 hours credit is required for the associate degree.

**Representative First Job Titles:** Line Avionic Repairperson, Shop Repairperson, Maintenance Foreman, Company Representative.



**BIOLOGICAL SCIENCE<sup>1</sup>**  
 College of Education  
 (Bachelor of Science)

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

This curriculum is designed to give the student a broad, yet intensive, education in the biological sciences preparatory for various professions, especially the teaching of biology at the secondary level. The work may be taken in either the College of Science or the College of Education. The science requirement for this concentration is the same in both colleges.

The biological sciences curriculum consists of courses selected from General Education Area A and the Departments of Botany, Microbiology, Physiology, and Zoology. A student selecting biological sciences as his or her concentration does not need to take a secondary concentration.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 301	American History <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition <sup>3</sup>	3	-
GED 102	English Composition II <sup>3</sup>	-	3
GED 153	Public Speaking	3	-
BOT 200	General Botany and Lab <sup>3</sup>	-	4
MATH 111	Pre-Calculus <sup>3,4</sup>	5	-
ZOOL 220a,b	Diversity of Animal Life	4	4
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 114	American Government	3	-
GEB 202	Introduction to Psychology	-	3
GEC	English Elective in Humanities	3	-
GEC	Humanities (select) <sup>2</sup>	3	-
GEE	Activity	2	-
GEE 201	Healthful Living	2	-
BOT 204	Plant Diversity and Lab	-	4
CHEM 222a,b	Introduction to Chemical Principles & Lab <sup>3</sup>	4	4
PHSL 310	Introductory Human Physiology	-	5
		<u>17</u>	<u>16</u>

<sup>1</sup> See also the program under the College of Liberal Arts.

<sup>2</sup> Refer to the section General Education for the Transfer Student.

<sup>3</sup> Approved substitutes for General Education.

<sup>4</sup> Or, Mathematics 108 and 109, or 140, or 141.

**Biological Science As A Major**

Foreign Language is not required for students pursuing the Bachelor of Science in Education degree.

For specific major requirements see the Undergraduate Catalog.

Courses required for teacher certification include: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213).

Biology has long been known as the "Queen of the Sciences." This title emphasizes its breadth and interdisciplinary nature. To solve the problems of biology requires study in a number of subject matter areas. The biology curriculum is designed to give the student a broad, yet intensive education preparatory for various professions as well as the teaching of biology at the secondary level. The work may be taken in either the College of Science or the College of Education. The science requirement for this concentration is the same in both colleges. The curriculum consists of courses selected from the Departments of Plant Biology, Microbiology, Physiology, and Zoology.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	-	1
*FL	Foreign Language <sup>4</sup>	4	4
*MATH 108, 109	College Algebra and Trigonometry <sup>3,4</sup>	3	3
*ZOOL 220a, b	Diversity of Animal Life (Invertebrate, Vertebrate)	4	4
		<u>17</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	6	-
GEC	Humanities (select) <sup>2</sup>	-	2
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being <sup>2</sup>	-	3
*BOT 200	General Botany and Lab <sup>4</sup>	4	-
*BOT 204	Plant Diversity and Lab <sup>4</sup>	-	4
*CHEM 222a, b	Introduction to Chemical Principles <sup>4</sup>	4	4
PHSL 310	Introductory Human Physiology <sup>4</sup>	-	5
		<u>17</u>	<u>18</u>

### Third and Fourth Years

The last two years of a student's program should include completion of three additional hours in GEA, GEB, or GEC, and the following courses in biological sciences: Microbiology 301, 302 (7 hours), any two of Biology 305, Biology 306, Biology 307, Biology 308, or Biology 309 (6 hours), and any electives in biological sciences at the 400-level, for 6 hours.

\*Approved substitutes for General Education.

<sup>1</sup>See also the program (B.S.) under the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup>Math 111 or 140 or 141 substitutes for Math 108, 109.

<sup>4</sup>Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

### Biological Sciences As A Major

The increasing complexity of the world and the nature of its problems emphasize the importance of the study of biology. The problems of the world that are most forcibly felt are biological--population increase, nutrition, food production, energy supplies, medicine, sanitation, waste disposal, toxicities, and a host of others. Although advanced work (M.S. or Ph.D.) has become a basis for professional preparation in the biological sciences, many technician positions exist in industry for people who cannot immediately pursue graduate study or who do not care to do so.

Representative First Job Titles: Venereal Disease Investigator, Aide-Veterinary Clinic, Pharmaceutical Sales, Fishery Bacteriologist, Quality Control Specialist, Medical Laboratory Assistant, Medical Bacteriologist, Researcher-Chiropractic College, Nutrition Specialist, Plant Protection Scientist, Technical Marketing Representative, Research Technician, Technical Library Operator, Biological Warfare Officer, Technical Sales, Soil Conservation Technician, Soil Bacteriologist, Commodities Inspector, Food and Drug Inspector, Bio-Specimen Technician, Aquatic Biologist, Wildlife Biologist, Environmental Analyst, Fish and Wildlife Game Warden.

The Bachelor of Science degree program with a major in Business and Administration is intended for those students with personal and professional goals which entail a blending of coursework offered by the College of Business and Administration with a secondary concentration comprised of 20-23 semester hours of coursework offered by other schools and colleges of the University. This combining of interests--business with an outside field--can result in a unique program. For example, a student with international business interests can combine business and administration with foreign languages; a student interested in going into the restaurant business can combine coursework in food and nutrition with business and administration. The outside field (or secondary concentration) must be consistent with a specific career objective or career development plan and at least 15 semester hours must be structured to achieve this objective. Individual programs are subject to the approval of the Dean of the College of Business and Administration.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	3
GEB	Social Science <sup>1</sup>	3	-
*GEB 202	Introduction to Psychology <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	3	3
*GED 101	English Composition <sup>1</sup>	3	-
*GED 102	English Composition II <sup>1</sup>	-	3
*MATH 139	Finite Mathematics	3	-
*MATH 140	Short Course in Calculus	-	4
		<u>15</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	-	3
*GED 152, 153	Public Speaking or Interpersonal Comm. <sup>1</sup>	3	-
*ACCT 220	Financial Accounting	3	-
*ACCT 230	Managerial Accounting	-	3
*CS 212 or	Intro. to Computer Programming <sup>3</sup>		
CIP 229	Computing for Business Admin. <sup>3</sup>	-	3
*ECON 214	Macro Economics <sup>2</sup>	3	-
*ECON 215	Micro Economics <sup>2</sup>	-	3
*FIN 270	Legal & Social Environment of Business <sup>3</sup>	3	-
*MGMT/ECON 208	Economic and Business Statistics	3	-
*MGMT 202	Business Communications	-	3
		<u>15</u>	<u>15</u>

\*Required course for a major in COBA.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, "General Education for the Transfer Student."

<sup>2</sup>ECON 214 or 215 counts toward GEB credit.

<sup>3</sup>Course will be approved by articulation agreement with each college.

### Third and Fourth Years

As a declared Business and Administration major, the student will take upper level business courses which will prepare the student in the student's chosen area. These courses include the remaining Core requirements, 12 additional credits in COBA, and at least 20 credits in the secondary concentration.

### Business and Administration As A Major

Secondary concentration required; foreign language not required.

Graduate degrees available; MBA, Masters in Accountancy (M.Acc.), DBA.

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements.

The Department is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

See College of Business and Administration listing for their retention policy and the 40% rule.

**BUSINESS ECONOMICS**

College of Business and Administration (COBA)  
(Bachelor of Science)

Dr. Iqbal Mathur  
Chairperson, Dept. of Finance  
Telephone - 618-453-2459  
Henry J. Rehn Hall, Room 232

The Business Economics major offered through the College of Business and Administration emphasizes the application of economic concepts and the use of critical analysis in the solution of economic and managerial problems.

This undergraduate program is an excellent general preparation for future managerial and staff assignments in a variety of business and public organizations. The program also prepares students for graduate study in economics as well as for the Master of Business Administration (MBA) degree.

Those students who desire professional careers as business and managerial economists are advised to plan to complete one to four years of post graduate study.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	3
GEB	Social Science <sup>1</sup>	3	-
*GEB 202	Introduction to Psychology <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	3	3
*GED 101	English Composition <sup>1</sup>	3	-
*GED 102	English Composition II <sup>1</sup>	-	3
*MATH 139	Finite Mathematics	3	-
*MATH 140	Short Course in Calculus	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	-	3
*GED 152, 153	Public Speaking or Interpersonal Comm. <sup>1</sup>	3	-
*ACCT 220	Financial Accounting	3	-
*ACCT 230	Managerial Accounting	-	3
*CS 212 or	Intro. to Computer Programming <sup>3</sup>		
CIP 229	Computing for Business Admin. <sup>3</sup>	-	3
*ECON 214	Macro Economics <sup>2</sup>	3	-
*ECON 215	Micro Economics <sup>2</sup>	-	3
*FIN 270	Legal & Social Environment of Business <sup>3</sup>	3	-
*MGMT/ECON 208	Economic and Business Statistics	3	-
*MGMT 202	Business Communications	-	3
		<u>15</u>	<u>15</u>

\*Required course for a major in COBA.

<sup>1</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, "General Education for the Transfer Student."

<sup>2</sup> ECON 214 or 215 counts toward GEB credit.

<sup>3</sup> Course will be approved by articulation agreement with each college.

**Third and Fourth Years**

As a declared Business Economics major, the student will take upper level business courses which will prepare the student for an exciting career in the Business Economics area. These courses include the remaining Core requirements and 21 credits in the Business Economics area.

**Business Economics As A Major**

Neither minor nor foreign language required.

Graduate degrees available; Masters in Accountancy (M.Acc.), DBA.

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements.

The program is accredited by the American Assembly of Collegiate Schools of Business (AACSB). See College of Business and Administration listing for their retention policy and the 40% rule.

**Representative First Job Titles:** Account Executive, Business & Economics Statistician, Business Planning Officer, Economic Analyst, Economic Forecaster, Investment Analyst, New Business Researcher, Organization Planning Officer, Systems Evaluator, Marketing Representative, Operating Plans and Procedures Officer, Operations Research Analyst, Labor Economist, Labor Relations Officer, Workman's Compensation Officer, Benefits Analyst, Industrial Economist, Industrial Labor Relations Specialization Officer, Business Analyst, Loan Administrator, Loan Examiner.



The Department of Chemistry and Biochemistry has a long and distinguished record for its programs at the undergraduate level. These courses are designed to give thorough training in theory and practice. Three undergraduate degrees are offered allowing a student to select a program best suited to his/her future goals.

The Bachelor of Science degree in Education is administered by the College of Education. It is provided for those who wish to become secondary school chemistry teachers.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 114	American Government	-	3
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	P.E. Activity	2	-
GEE 201	Healthful Living	-	2
GE	Electives	-	2
CHEM 222a,b	Introduction to Chemical Principles <sup>3</sup>	4	4
MATH 111	Pre-Calculus <sup>3</sup>	5	-
		<u>17</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEB 202	Introduction to Psychology	3	-
GEB 301	U.S. History <sup>2</sup>	-	3
GEC	English Elective in Humanities (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 153	Public Speaking	-	3
CHEM 226	Introduction to Quantitative Chemical Principles	5	-
MATH 150	Calculus I	4	-
PHYSICS 203a/ 253a/	Collete Physics/Lab	-	4
		<u>15</u>	<u>16</u>

<sup>1</sup>See also the program under College of Science.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

<sup>3</sup>Approved substitutes for General Education.

For specific major requirements, see the Undergraduate Catalog.

#### Chemistry As A Major

The following courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). General Education science courses must include one laboratory class.

The Department of Chemistry and Biochemistry has a long and distinguished record for its programs at the undergraduate level. These courses are designed to give thorough training in theory and practice. Three undergraduate degrees are offered allowing a student to select a program best suited to his or her future goals.

The Bachelor of Science degree from the College of Science is for those who will prepare for graduate school or who plan to be professional chemists. Those completing this degree meet the certification requirements of the American Chemical Society.

The Bachelor of Arts degree, also from the College of Science, offers the student greater choice in selecting his or her program. One option gives the student the minimum preparation for graduate work in Chemistry or Biochemistry; another prepares for medicine, dentistry and other health sciences. A third option in administration is also offered. Co-sponsored by the College of Science and Business and Administration, this option prepares chemistry students for careers in management, marketing, and production rather than research and development.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	Humanities (select) <sup>3</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
BIOL	Biological Sciences (not GE-A) <sup>2</sup>	3	3
*CHEM 222a,b	Introduction to Chemical Principles	4	4
MATH 111	Pre-Calculus <sup>2</sup>	5	-
MATH 150	Analytic Geometry and Calculus <sup>2</sup>	-	4
		<hr/> 15	<hr/> 17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Sciences (select) <sup>3</sup>	3	-
GE-D 153	Public Speaking	-	3
CHEM 226a,b	Intro to Quantitative Chemistry Principles	3	2
CHEM 344	Organic Chemistry	3	-
CHEM 345	Laboratory Techniques	2	-
CHEM 346	Organic Chemistry	-	3
CHEM 349	Laboratory Techniques	-	2
MATH 250	Calculus II	-	3
*FL	(German Recommended) <sup>2</sup>	4	4
		<hr/> 15	<hr/> 17

\*Approved substitutes for General Education.

<sup>1</sup> See also the program under the College of Education.

<sup>2</sup> Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences. German, French or Russian are recommended if language requirement is not previously satisfied.

<sup>3</sup> Refer to the section General Education for the Transfer Student.

### Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives, and on fulfilling remaining General Education requirements. The B.S. in the College of Science requires three semesters of calculus based physical chemistry, a course in instrumental analysis and advanced courses from biochemistry, inorganic chemistry, organic chemistry or physical chemistry. The B.A. degree is slightly less demanding and the available options allow a program to be tailored to the needs of the individual.

### Chemistry As A Major

Students receive their classroom instruction from among 25 faculty members, all with Ph.D. degrees. Our building is quite new, and our teaching equipment is modern. We take pride in the quality of professional training that is available to our students. Those who are interested in careers in research or college teaching will continue their education in an appropriate graduate school. Others may enter professional schools or select immediate employment in the industry. The chemist typically finds work in private or government laboratories, and his or her activities may be in research and development, sales, or analysis and control of manufacturing processes.

**Representative First Job Titles:** Research-Pharmaceutical, Biochemist, Biochemical Technologist, Research Chemist, Quality Control Chemist, Analytical Chemist, Organic Chemist, Inorganic Chemist, Physical Chemist, Food Chemist, Soil Chemist, Agricultural Chemist, Paint Chemist, Chemical Laboratory Technologist, Dye Chemist, Geochemist, Manufacturer's Representative, Nuclear Chemist, Product Studies and Testing Chemist, Textile Chemist, Water Purification Chemist, Environmental Analyst, Toxicologist, Pollution Control Chemist.

The visual and aural world of still and moving images: this is the world of Cinema and Photography. From the history, theory, and appreciation of past work in motion pictures and still photography, students move into the challenges of using still and moving images to document, to express, and to communicate the artistic perspective that these media of light and shadow make dramatic. The curriculum in Cinema and Photography is structured to allow both professional and fine arts applications of these exciting approaches to visualization, allowing preparation also for educational careers in film and photography along with an exploration of the social implications of still and moving images. In each instance, students may tailor the program to meet particular interests and career plans.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
		<u>14</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Studies (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	3
GE Elective	From A, B or C (select) <sup>1</sup>	3	-
*C&P 310 or 360	History of Still Photography or Film Analysis	3	-
*C&P 311 or 368	Contemporary Photography or Intro to Cinema Theory	-	3
*C&P 320 or 355	Basic Photography or Film Production I	4	-
*C&P 322 or 356	Color Photography or Film Production II	-	4
		<u>16</u>	<u>16</u>

<sup>1</sup> Refer to section General Education for the Transfer Student.

\*Requirements for Cinema and Photography major.

#### Cinema And Photography As A Major

This department is recognized by national photographic organizations as one of the leading departments in the country.

A grade of 'C' is required in prerequisite courses and a 2.0 average must be maintained in cinema and photography courses in order to remain in the major.

No minor required. No foreign language required. The Master of Fine Arts degree in Cinema and Photography is also available.

Students must successfully complete the core requirements, and portfolios and/or films must be submitted for entrance into certain courses.

Students purchase supplies for many cinema and photography courses. In courses which involve analysis and screening of a number of films, a screening fee is assessed. Lab fees may be required for certain other courses.

Only transfer credit of an exceptional nature has been accepted to fulfill the major requirements in Cinema and Photography.

The University reserves the right to retain examples of the work of each student in each photography class and to make and retain prints of all films made as part of course work. Such photographs and films become part of a permanent departmental collection from which exhibitions may be prepared.

Representative First Job Titles: Studio Assistant, Illustrator, Cameraperson, Visual Information Specialist, Color Technician, Sales Manager, Advertising Agent, Newsfilm Editor, Film Production Staff, Film Planner, Free Lance Photographer, Documentary Film Specialist, Quality Control Officer, Photographer, Multi-Media Specialist, Film Editor, Production Assistant, Assistant Sound Recorder/Mixer, Lighting Technician, Independent Filmmaker, Independent Producer, Photojournalist, Stylist, Graphic Arts Technician, Communications Specialist, Medical Illustrator, Teacher, Screenwriter, Cinematographer, Production Manager, Assistant Cinematographer, Special Effects Photographer, Film Animator.



## CIVIL ENGINEERING

College of Engineering and Technology  
(Bachelor of Science)

Dr. Braja M. Das  
Telephone - 618-536-2368  
Technology Building, Room D23

See also: Electrical Engineering, Mechanical Engineering, and Mining Engineering.

Civil Engineering is a profession in which principles of the mathematical, physical, and engineering sciences, combined with experience and practice, are used to develop safe and economical designs for buildings, bridges, dams and hydraulic systems, environmental engineering systems, and other beneficial projects. Civil Engineering is one of the oldest branches of the engineering field and is often called a "people-serving" profession.

The four-year undergraduate program leading to the Bachelor of Science degree in Civil Engineering has five areas of specialization: structural engineering, hydraulic engineering, environmental engineering, geotechnical engineering, and applied mechanics. Additional technical electives enable students to concentrate on specialty areas that support their career goals.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
ENGR 102	Engineering Graphics	2	-
GEB	Social Sciences (select) <sup>1,2</sup>	-	3
GEC	Humanities (select) <sup>1,2</sup>	3	3
GED 101	English Composition <sup>1,2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GEE	Human Health & Well Being (select) <sup>1</sup>	-	2
CHEM 222a,c	Intro. to Chemical Principles and Lab <sup>3</sup>	4	3
MATH 150, 250	Calculus I & II <sup>3</sup>	4	4
		16	18
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
ENGR 222	Computational Methods for Engineers	2	-
ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
GEA 115	Introductory Biology <sup>1,2,4</sup>	3	-
GEB	Social Studies (select) <sup>1,2</sup>	-	3
GEC	Humanities (select) <sup>1,2</sup>	-	3
GED 153	Public Speaking <sup>1,2</sup>	3	-
MATH 251, 305	Calculus III and Differential Equations I	3	3
PHYS 205a,b	University Physics		
PHYS 255a,b	and Lab <sup>3</sup>	4	4
		17	16

<sup>1</sup>See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved general education courses.

<sup>2</sup>Due to accreditation standards, students transferring with a baccalaureate-oriented associate degree will need 16 sem. hours of Social Sciences and Humanities; eight or nine sem. hours of oral and written communications, and 18 sem. hours of basic science before graduation from SIUC. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 sem. hours of Social Sciences and Humanities from a community college will be counted toward this 16 hour requirement.

<sup>3</sup>Substitutes for General Education requirements.

<sup>4</sup>This course is not required for students transferring with a baccalaureate-oriented associate degree and 18 sem. hours of Chemistry and Physics.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in Engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the college's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include six sem. hours of English Composition; three sem. hours of Speech, eight sem. hours of University Physics, seven sem. hours of Chemistry; 11-14 sem. hours of Math, including Calculus; two sem. hours of Analytical Mechanics (Statics); and three sem. hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

**Career and Employment Opportunities:** Civil engineers are in demand in many fields. The number and variety of employment opportunities allow graduates considerable flexibility in job selection. Positions exist in construction companies, consulting engineering and architectural firms, transportation, public utility and manufacturing companies, aerospace companies, and governmental agencies on every level.



Programs of study in foreign languages leading to the Bachelor of Arts degree in the College of Liberal Arts (with or without teacher certification) are offered in Classics, Foreign Language and International Trade, French, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree in the College of Liberal Arts for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. The student who has taken two years of one foreign language in high school (or equivalent) has the option to earn proficiency credit through taking a proficiency exam in Latin at the Testing Center or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. The Foreign Language Department will honor CLEP exams in French, German and Spanish. As an alternative or for additional credit, students who can enter at the 200 level or above are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	-	3
GEB	Social Science (select)	3	3
GEC	Humanities (select)	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (Activity)	2	-
CLAS 133a,b or	Elementary Latin <sup>1,2</sup> or	3-4	3-4
CLAS 130a,b or	Elementary Classical Greek <sup>1,2</sup> or		
CLAS 202a,b or	Intermediate Latin <sup>1,2</sup> or		
CLAS 201a,b	Intermediate Greek <sup>1,2</sup>		
		<u>14-15</u>	<u>15-16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
GEB	Social Science (select)	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE 107 or 201 or 236	Human Health and Well Being (select)	-	2
CLAS	Classics Electives <sup>4</sup>	3-4	3-4
CLAS	Latin or Greek Language	3	3
MATH or CS	Mathematics or Computer Science <sup>3</sup>	3	-
		<u>15-16</u>	<u>14-15</u>

<sup>1</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students. However, four of these hours may be used for GEC credit.

<sup>2</sup>Required by the major--two years of one language or one year of each.

<sup>3</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement. Students with more than one year of high school Latin or Greek should carry at least one substantial course in the Classics major each semester.

<sup>4</sup>Required by the major (see Undergraduate Catalog).

#### Classics As A Major

A major in Classics consists of 36 semester hours in courses on all levels. \*Electives may be chosen from specified courses in the departments of Anthropology, Art, History, Philosophy, Political Science, and Religious Studies. A minor in Classics consists of 15 semester hours.

NOTES: Foreign Language majors must satisfy College of Liberal Arts requirements. Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

\*Students are advised not to enroll for both Elementary Greek and Elementary Latin the same semester.

Representative First Job Titles: Teacher, Translator, Simultaneous Interpreter, Consecutive Interpreter, Visitors' Guide, Communications Specialist, Public Information Officer, Escort Interpreter, Conference Interpreter, International Relations Officer, Sales Representative, Writer, Editor, Publications Staff, Speech Writer, Archaeological Worker, Archival Worker, Museum Curator, Cultural Studies Specialist, Researcher, Exhibit Preparator.

## CLOTHING AND TEXTILES

(Apparel Design)  
Department of Vocational Education Studies  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Mrs. Sue Ridley  
Coordinator  
Telephone - 618-453-3321  
Quigley Hall, Room 311

The apparel design program in the Division of Comprehensive Planning and Design gives students training for design occupations either in an industrial setting or in a custom shop. Many careers in design-related businesses are also available to the graduates of this program. The variety of courses offered is outstanding which provides the student with opportunity to develop individual skills and competencies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 101, 106 or 110	Science (select)	-	3
GEA 115, 117 or 118	Biological Science	3	-
GEB	Electives	3	-
GEB 211	Contemporary Economics	-	3
GEC	Humanities (select philosophy or literature)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE 107 or 201 or 236	Human Health and Well Being (select)	-	2
AD 100a <sup>1</sup>	Two Dimensional Design	-	3
VES 336	Survey of Clothing	3	-
VES 338a	Beginning Clothing Construction	3	-
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	-
GEB 202	Introduction to Psychology	3	-
GEC	Elective (select)	3	-
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select activity)	-	2
AD 110	Introduction to Drawing I	3	-
AD 206	Beginning Fibers	-	3
VES 337	Clothing for Consumers	3	-
VES 345	Textiles	-	4
		<u>15</u>	<u>15</u>

<sup>1</sup>AD 100a will substitute for GEC 101. Apparel design students must take AD 100a.

### Third and Fourth Years

If not completed at the junior college level, VES 338a (Beginning Clothing Construction) must be taken the first semester the transfer student is at SIUC. Other courses taken during the last two years will include the professional apparel design courses within the department and professional electives.

This specialization is intended for the student interested in professional preparation in apparel design or allied design positions in either industrial or commercial fashion businesses. The courses available to the student cover textile information, fashion design, and skills required for developing original designs into patterns and completed garments. Courses in clothing and textiles are complemented by ones in art, business, and other areas in order to provide a suitable background for various career opportunities.

Representative First Job Titles: Family Expenditures Education Specialist, Consumer Market Analyst, Consumer Relations Officer, Apparel Designer, Fashion Coordinator, Patterns Designer, Tailor, Clothing Economist, Fashion Merchandising Expert, Advertising Assistant, Retail Store Manager, Cost Analyst, Customer Services Specialist, Sales Agent, Purchasing Manager, Marketing Specialist, Textile Selector, Textile Laboratory Assistant, Customer Relations Specialist, Pattern Maker, Industrial Relations Specialist, Price Economist, Manufacturer's Representative.

## CLOTHING AND TEXTILES<sup>1</sup>

(Retailing)

Department of Vocational Education Studies  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Mrs. Sue Ridley  
Coordinator  
Telephone - 618-453-3321  
Quigley Hall, Room 311

The retailing program at Southern Illinois University is offered through the Department of Vocational Education Studies. Professional and free elective hours make it possible for the student to choose the courses of greatest personal value.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 101, 106 or 110	Science (select)	-	3
GEA 115, 117 or 118	Biological Science	3	-
GEB	Social Sciences (electives)	3	3
GEB 202	Introduction to Psychology	-	3
GEC	Humanities (select philosophy or literature) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE 107 or 201 or 236	Human Health and Well Being (select)	-	2
VES 336	Survey of Clothing	3	-
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	-
GEB 211	Contemporary Economics	3	-
GEC	Elective (select)	3	-
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication and Public Speaking	-	3
GEE	Human Health and Well Being (select activity)	-	2
ACCT 210 or 220	Principles of Accounting	-	3
VES 337	Clothing for Consumers	3	-
VES 345	Textiles	-	4
VES 347	Fashion Motivation	3	-
		<u>15</u>	<u>15</u>

<sup>1</sup>AD 100a will substitute for GEC 101. Retailing students must take AD 100a.

### Third and Fourth Years

Courses during the last two years will include additional work in marketing, management and related business courses; core, electives and professional courses within the Clothing and Textiles Department; and elective hours. The retailing major should have some experience in a sales position before the junior year.

This specialization prepares students for a profession in retail stores, either as buyers or department managers. Other related retailing positions which are also available to the student include personnel, training, inventory control, and security.

Representative First Job Titles: Family Expenditures Education Specialist, Consumer Market Analyst, Consumer Relations Officer, Apparel Designer, Fashion Coordinator, Patterns Designer, Tailor, Clothing Economist, Fashion Merchandising Expert, Advertising Assistant, Retail Store Manager, Cost Analyst, Customer Services Specialist, Sales Agent, Purchasing Manager, Marketing Specialist, Textile Selector, Textile Laboratory Assistant, Customer Relations Specialist, Pattern Maker, Industrial Relations Specialist, Price Economist, Manufacturer's Representative.

COMMERCIAL GRAPHICS--DESIGN

College of Technical Careers  
(Associate in Applied Science)

John L. Yack  
Program Coordinator  
Telephone - 618-453-8863  
Blue Barracks

The advertising business is a growing field, presenting tremendous employment opportunities for men and women who have creative and artistic ability. Trained people are needed to develop story illustrations, advertising layouts, billboard design, point-of-purchase displays, package designs, direct mail pieces, annual report designs, television commercials, title cards, finished lettering, fashion illustrations, airbrush and photo retouching and many others.

Students in this program develop multiple art skills so that they may qualify for initial positions in many different areas of advertising art and design. Each individual has a base upon which to build a career according to his or her own special interests and talents. Students are admitted to 300 level courses based on the quality of work they do in the first two years.

Each graduating CGD student is required to attain a 90% or better achievement on a vocabulary proficiency test, and to have compiled a professionally acceptable portfolio of work.

The student should expect to spend approximately \$1,500 - \$2,000 for supplies, equipment, and materials over a two-year period.

An advisory committee whose members are active in the advertising and graphic design professions serves the program.

All faculty are professionals attracted from agencies or studios, hence are uniquely adept in the practical aspects of design.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	3	-
GED 153	Public Speaking	-	3
*CG 109	Basic Photography for Graphic Design	-	2
CG 110	Survey of Graphic Design	3	-
CG 120	Artistic Anatomy and Color Perception I	4	-
CG 122	Technical Drawing for Graphic Design	4	-
CG 124	Graphic Layout and Typography I	4	-
CG 130	Artistic Anatomy and Color Perception II	-	4
CG 132	Airbrush and Photo Retouching	-	4
CG 133	Copyfitting	-	1
CG 134	Graphic Layout and Typography II	-	4
*CG 150	Computer Applications for Commercial Graphics-Design	-	2
		<u>18</u>	<u>20</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	200 Level Elective (Psychology recommended)	3	-
CG 210	Advertising Graphics	6	-
CG 224	Publication Graphics	6	-
CG 222	Graphic Design and Advertising Illustration	-	6
CG 215	Dimensional Design	-	6
CG 230	Job Orientation Seminar	-	1
TC 102	Technical Writing (special course for majors)	2	-
		<u>17</u>	<u>13</u>

Third Year      Advanced Technical Studies Electives (baccalaureate degree)

CG 310	Advanced Illustration for CG-D <sup>1</sup>	6
CG 312	Advanced Airbrush/Tech. Illus. for CG-D <sup>1</sup>	6
CG 315	Advanced Dimensional Design for CG-D <sup>1</sup>	3
CG 350	Advanced Computer Applications for CG-D <sup>1</sup>	3

\*Elective

<sup>1</sup> Deparmental offerings may vary each semester.

A minimum of 69 hours is required for this program.

Applicants are admitted to the University with a Pre-Commercial Graphics Design designation for the fall semester, and are then contacted by the program. At this point, they must submit a portfolio of required examples in addition to taking a workshop. Those students who show that they are the best prepared will be invited to enroll in the program. Counselors or art teachers may request a video tape (VHS 28:30) presentation or demonstration by a faculty member, time permitting. There is no charge for this service.

Representative First Job Titles: Graphic Designer, Layout Artist, Sketch Artist, Paste-up Artist, Package Designer, Freelance Artist, Illustrator, Mechanical Artist, Publication Designer, Airbrush Illustrator, Photo-retoucher, Assistant to Art Director.



**COMMUNICATION DISORDERS AND SCIENCES**  
 (Clinical Specialization)  
 (Public School Specialization)  
 College of Communications and Fine Arts  
 (Bachelor of Science)

Gene J. Brutton, Chairperson  
 Telephone - 618-453-4301  
 Communications Building, Room 1003

The program in Communication Disorders and Sciences has as its objective the training of qualified personnel to work with children and adults whose speech, language or hearing is impaired. The pre-professional undergraduate curriculum is broad in scope and presents the student with the necessary background for the professional program offered at the Master's level. Both state and national certification require the Master of Science degree.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115	Biology	3	-
GEB 108	The Sociological Perspective	3	-
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GEA, B, or C	Select <sup>1</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or	Interpersonal Communication or		
GED 153	Public Speaking	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	(select) <sup>1</sup>	3	-
GEB 262	Marriage and Family	3	-
GEC	English Elective in Humanities	3	-
GEE Activity	(select) <sup>1</sup>	2	-
GEE 201	Healthful Living	2	-
PSYC 301	Child Psychology	-	3
CDS 105	Introduction to Communication Disorders <sup>2</sup>	-	3
CDS 200	Phonetics <sup>2</sup>	3	-
CDS 203	Introduction to Speech-Language		
	and Hearing Science <sup>2</sup>	-	3
	Departmental Electives <sup>2</sup>	-	7
		<u>16</u>	<u>16</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> A student may take these courses either fall or spring as offered by the department.

Preparation for teacher certification should include the following General Education courses: GEB 202, Introduction to Psychology; GEE 201 (Healthful Living); GED 101; GED 102; GED 301; GED 153; GEE 100-114 (2 hours); and one additional English course from GEC, GED or English department.

**Communication Disorders and Sciences As A Major**

In the departmental major of 37 semester hours, the third and fourth years as an undergraduate presents the student with pre-professional training that relates to normal and disordered aspects of speech, language, and hearing. Graduate work is primarily devoted to training in differential diagnosis, assessment and the management of communication disorders in clinical or school settings.

Extensive clinical experience (minimum of 300 clock hours) is obtained through work at the University's Clinical Center, Carbondale Memorial Hospital, the Marion Veterans Administration Hospital, Head Start, Tri-County Special Education Cooperative, Jackson County Nursing Home, Center for Comprehensive Services, public schools and other area hospitals or agencies.

Students will be encouraged to plan programs of study to meet academic and practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association.

**Representative First Job Titles:** (All require certification/Master of Science degree): Speech and Language Clinician, Speech and Language Pathologist, Speech and Hearing Therapist, Audiologist, Speech and Hearing Consultant, Hearing Aid Specialist.

## COMPUTER INFORMATION PROCESSING

College of Technical Careers  
(Associate of Applied Science)

Byron Johnson  
Program Coordinator  
Telephone - 618-453-7227  
Faner Building, A-2037

The growth of information processing in both the expansion of installations and the complexity of hardware and software has increased the need for competent information processing personnel. The curriculum in computer information processing at the College of Technical Careers prepares students for employment as business computer programmers and systems analysts. Skills which the graduate obtains include competency in programming languages (such as COBOL, RPG and Assembler) and associated areas (such as accounting and systems design).

Students enrolled in the program have access to a modern large-scale IBM computer with batch and interactive facilities and an IBM PC Lab. The hardware and software configurations are representative of large computer installations in industry. The data center is available for student use approximately 100 hours per week.

The associate degree program can be completed in two academic years at Southern Illinois University at Carbondale or in combination with community colleges or other acceptable extra-institutional educational experiences. Students beginning the program in the spring semester may require five semesters to complete the degree. Students should plan to spend small amounts for special laboratory materials.

Students completing this program may seek employment as entry level business applications programmers and systems analysts or may continue their studies by enrolling in a bachelor's degree program, such as the Advanced Technical Studies major in the College of Technical Careers.

An advisory committee of professional people and educators meet annually on campus to review the program to assure its continuing responsiveness to the current needs of today's industry.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
CIP 101	Introduction to Information Processing	3	-
CIP 102	Introduction to Programming	3	-
CIP 103	Information Processing Mathematics	3	-
CIP 111	COBOL Programming I	-	3
CIP 131	Information Processing Applications	-	3
TC 120	Fiscal Aspects of Technical Careers I	3	-
TC 220	Fiscal Aspects of Technical Careers II	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CIP 121	RPG Programming	3	-
CIP 212	COBOL Programming II	3	-
CIP 213	Information Processing Project	-	6
CIP 222	Assembler Language Programming	-	4
CIP 232	Systems Design and Development	3	-
CIP 233	Job Control Language and Utilities	4	-
CIP 281	Career Development	-	2
Elective	Social Elective	3	-
Elective	Technical Elective	3	3
		<u>19</u>	<u>15</u>

### Computer Information Processing As A Major

A minimum of 60 hours of credit must be completed for graduation. A minimum grade of 'C' is required in all courses with a CIP prefix and GED 101, 102 and 152, 153.

Students may begin the program in the spring semester, but five semesters may be required for completion.

### Computer Information Processing As A Minor

Fifteen hours of work in computer information processing courses are required for a minor. A list of required courses is available from the program coordinator.

Representative First Job Titles: Computer Programmer, Systems Analyst.

The Department of Computer Science also offers a second undergraduate program which leads to a Bachelor of Arts degree. The Bachelor of Arts program is oriented toward preparing students for careers across a wide spectrum of fields in which computers play a significant role. The program achieves this by requiring each student to develop a secondary concentration in a field which matches the individual's career goals.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1,2</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	1	-
CS 202	Introduction to Computer Programming <sup>3</sup>	-	3
CS 215	Discrete Structures I <sup>3</sup>	-	3
MATH 108	College Algebra	3	-
MATH 140	Short Course in Calculus <sup>3</sup>	-	4
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
CS 220	Advanced Programming Techniques <sup>3</sup>	3	-
CS 302	Assembly Language Programming <sup>3</sup>	-	3
ENGL 290	Intermediate Expository Writing	3	-
FL	Foreign Language <sup>4</sup>	4	4
MATH 282 or 283	Introduction to Statistics <sup>3</sup>	3	-
		<u>16</u>	<u>13</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>GEC 208 Elementary Logic is recommended.

<sup>3</sup>Required by the major.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

Computer Science Courses: CS 202 is a first course in programming using the language PASCAL. CS 220 is a data structures course which also uses PASCAL. CS 302 is an intensive course in assembly language programming. CS 215, a discrete structures course, is a prerequisite to 220 and 302.

Mathematics Courses: The calculus requirement for a Bachelor of Arts in Computer Science is four hours as defined by Math 140. Note that a student with insufficient background must take a college algebra course such as Math 108 prior to taking CS 215.

Computer Science As A Major: The department offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate curriculum which prepares students for professional and technical careers in government and industry or for graduate work leading to advanced degrees. The curriculum includes such topics as programming, computer hardware and software systems, simulation, graphics, artificial intelligence, database systems, and computer applications to business and science. Students will be advised in computer science courses by the department so that they may profitably pursue their academic and professional interests.

Representative First Job Titles: Business Applications Programmer, Programmer/Analyst, Systems Analyst, Software Engineer, Database Specialist, Consultant.



The Department of Computer Science offers two degree programs to undergraduate students. The curriculum specified for the Bachelor of Science degree is more flexible, broadly based, and provides preparation for a wide range of careers as well as for graduate training in computer science. The Bachelor of Arts degree program is oriented toward preparing students for careers across a wide spectrum of fields in which computers play a significant role.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1,2</sup>	3	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	1	-
CS 202	Introduction to Computer Programming <sup>3</sup>	-	3
CS 215	Discrete Structures I <sup>3</sup>	-	3
MATH 111	Pre-Calculus <sup>4</sup>	5	-
MATH 150	Calculus I <sup>3</sup>	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>			
GEB	Social Science (select) <sup>1</sup>	-	3
	Lab Science <sup>3,5,6</sup>	3-4	3-4
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
CS 220	Advanced Programming Techniques <sup>3</sup>	3	-
CS 302	Assembly Language Programming <sup>3</sup>	-	3
ENGL 290	Intermediate Expository Writing <sup>3</sup>	3	-
MATH 221	Introduction to Linear Algebra <sup>3</sup>	-	3
MATH 250	Calculus II <sup>3</sup>	4	-
		<u>15-16</u>	<u>15-16</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>GEC 208 Elementary Logic is recommended.

<sup>3</sup>Required by the major.

<sup>4</sup>Will substitute for general education mathematics.

<sup>5</sup>Consult with the department's undergraduate program director for the approved list of lab science courses.

<sup>6</sup>These courses may substitute for general education requirements.

**Computer Science Courses:** CS 202 is a first course in programming using the language PASCAL. CS 220 is a data structures course which also uses PASCAL. CS 302 is an intensive course in assembly language programming. CS 215, a discrete structures course, is a pre-requisite to 220 and 302.

**Mathematics Courses:** The basic calculus requirement for a B.S. degree in Computer Science is eight hours as defined by Math 150 and 250. Math 251, the third calculus course, is not required, but it can be taken as an elective. Note that a student with insufficient background must take a pre-calculus course such as Math 111 prior to taking Math 150 and CS 215.

**Science Courses:** The department requires a two-semester sequence of laboratory science or engineering courses chosen from an approved list which is maintained by the department's undergraduate program director. Two additional science or engineering courses are required. Some of these courses may substitute for general education requirements.

**Computer Science As A Major:** The department offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate curriculum which prepares students for professional and technical careers in government and industry or for graduate work leading to advanced degrees. The curriculum includes such topics as programming, computer hardware and software systems, simulation, graphics, artificial intelligence, database systems, and computer applications to business and science. Students will be advised in computer science courses by the department so that they may profitably pursue their academic and professional interests.

**Representative First Job Titles:** Data Processing Programmer, Scientific Programmer, Systems Programmer, Programmer/Analyst, Systems Analyst, Software Engineer, Database Specialist, Data Communications Specialist, Artificial Intelligence Developer, Graphic Applications Programmer, Digital/Electronics Designer, Research Associate, Consultant.



These courses provide training which will enable the individual to qualify for positions of greater opportunity and responsibility after relatively short periods of apprenticeship or trade experience in the fields of construction supervision, cost estimating, management, and building construction.

Field trips to nearby cities to study and observe various types of construction are made each school year. Allowance should be made for the purchase of small amounts of equipment and supplies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	-	3
CST 100	Construction Orientation	1	-
CST 102	Construction Drawing and Blueprint Reading	4	-
CST 103	Concrete Technology	-	4
CST 104	Surveying in Construction	4	-
CST 110	Residential Framing and Exterior Finish	5	-
CST 203	Construction Materials	-	3
CST 208	Construction Estimating	-	3
TC 105a,b	Technical Mathematics	4	-
TC 107a,b	Applied Physics	-	4
		<u>18</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
TC 102 or 153	Technical Report Writing or Public Speaking	-	2 (3)
CST 105	Construction Codes, Specifications, Inspection and Safety	2	-
CST 111	Remodeling and Renovation	-	3
CST 125	Structural Mechanics	3	-
CST 207	Construction Management	-	3
CST 209	Mechanical Systems	4	-
CST 210	Remodeling and Renovation	-	3
CST 211	Commercial Construction	3	-
CST 225	Structural Mechanics II	-	3
TC 120	Fiscal Aspects of Technical Careers	3	-
Elective	Social Studies or Humanities	-	3
		<u>15</u>	<u>17 (18)</u>

The following advanced construction courses are available beyond the AAS requirement during the summer term:

CST 303	Advanced Concrete Technology
CST 307	Computer Applications in Construction
CST 325	Quality Assurance in Construction

#### Construction Technology As A Major

Residential and light commercial building construction offers a multitude of opportunities in the areas of management and supervision.

The student will learn basic energy efficient construction principles including active and passive solar applications, surveying, drafting and properties of construction materials. He or she will be able to develop construction details and working drawings, and to make construction cost estimates, including labor, materials, and schedules. The student will learn code requirements and specifications affecting mechanical equipment such as plumbing, heating, air conditioning, and illumination. He or she will acquire the knowledge necessary for basic management and business positions through the study of business fiscal management, technical writing, physical sciences, and mathematics.

The student in this program will have the benefit of a well-equipped wood utilization laboratory.

A minimum of 67 hours credit is required for the associate degree.

Representative First Job Titles: Carpenter, Construction Engineering Aide, Building Materials Salesperson, Estimator, Construction Foreman, Assistant to Contract Supervisor, Inspector, Assistant Project Manager.

**CONSUMER ECONOMICS AND FAMILY MANAGEMENT**  
 (Consumer Services in Business Option)  
 College of Technical Careers  
 (Bachelor of Science)

Dr. Fred R. Isberner, Coord.  
 Telephone - 618-453-8898  
 Technical Careers Building  
 Room 126

This specialization prepares students for professional opportunities in consumer affairs in industry and government. Special emphasis is placed on the role of the consumer in the market place and the consumer's relationship to private enterprise and government agencies. A key focus of the program is the application of concepts and the critical analysis of problems and issues affecting the consumer's interests and choices.

The 46 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an AAS degree may be eligible for the Capstone option. This option reduces the hours required in general education from 46 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
*GEB 108	Sociological Perspective <sup>1</sup>	3	-
GEC	Humanities (select)	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 153	Public Speaking <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE 107 or 201			
or 236	Human Health and Well Being (select)	2	-
Elective		-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	-	3
*GEB 202	Introduction to Psychology <sup>1</sup>	3	-
*GEB 211	Contemporary Economics <sup>1</sup>	-	3
GEC	Humanities (select)	3	3
GEE	Human Health and Well Being (Activity)	2	-
GEA, B, C	(select)	3	-
Electives	(accounting recommended)	5	6
		<u>16</u>	<u>15</u>

<sup>1</sup>Required General Education courses.

Third and Fourth Years

The last two years of a student's program concentrate on specialized objectives and departmental requirements. These include the following areas: consumer resources and problems, housing concerns, consumers in the market, family financial management, business law, and public relations. In the senior year, students participate in an internship and take a course preparing them to identify consumer affairs positions.

Graduates may work in a variety of industries (insurance, banking, airlines, utility companies, food retailers, food processors) and governmental agencies (local consumer affairs offices, FTC, FDA).

Representative First Job Titles: Consumer Services Specialist, Consumer Relations or Customer Relations Officer, Consumer Affairs or Information Specialist, Consumer Educator, Community Liaison Specialist.

**CONSUMER ECONOMICS AND FAMILY MANAGEMENT**  
 (Family Service Consultant Option)  
 College of Technical Careers  
 (Bachelor of Science)

Dr. Fred R. Isberner, Coord.  
 Telephone - 618-453-8898  
 Technical Careers Building  
 Room 126

This specialization is designed to give students a knowledge and understanding of the family's management and allocation of resources. This option prepares students for employment in public and private welfare agencies, cooperative extensions, local government and other programs. The low-income family is of particular interest in this specialization. Elective courses should reflect the student's personal employment goals. The program is tailored to meet the theoretical as well as applied concepts in preparing students to serve individuals and families of various ages, physical abilities, and income levels.

The 46 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an AAS degree may be eligible for the Capstone option. This option reduces the hours required in general education from 46 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
GEB 108	Sociological Perspective <sup>1</sup>	3	-
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 153	Public Speaking <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE 107 or 201 or 236	Human Health and Well Being (select)	2	-
Electives		-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	-	3
GEB 202	Introduction to Psychology <sup>1</sup>	3	-
GEB 211	Contemporary Economics <sup>1</sup>	-	3
GEC	Humanities (select)	3	3
GEE	Human Health and Well Being (Activity)	1	1
GEA, B, C	(select)	-	3
F&N 100	Fundamentals of Nutrition	3	-
Electives		6	3
		<u>16</u>	<u>16</u>

<sup>1</sup>Required General Education courses.

**Third and Fourth Years**

Education during the third and fourth years emphasizes departmental requirements and advanced courses in Consumer Economics and Family Management. They include the following areas: consumer resources and problems, housing concerns, family financial management, management for low-income families, consumer health, marriage and family living, and family counseling. In the senior year, students participate in an internship experience.

**Representative First Job Titles:** Money Manager, Hospital Patient Representative, Social Services Agency Worker, Senior Citizens Agency Counselor, Budget or Credit Counselor, Consumer and Family Finance Specialist.

The dental hygienist is an important member of the dental health team, and is the only one other than the dentist who is permitted by law to work directly in the mouth of the patient. Both men and women enjoy the profession. Many dental hygiene graduates work in private practice. In this setting, the dental hygienist must be licensed and work under the supervision of a licensed dentist. The hygienist's area of responsibility includes oral prophylaxis (scaling and polishing of the teeth), chairside assisting, x-ray examinations, laboratory techniques, office and administration procedures, dental health education, and other areas of preventive dentistry. Alternative employment opportunities include teaching, public health dentistry, civilian employment at military installations, sales and marketing for dental companies, management positions in dental clinics or related health care facilities, and consulting for long term health care facilities. Future changes in statutes may open possibilities for alternatives to private practice. Several states currently allow independent contracting in private practice.

This program is fully accredited by the Council on Dental Education of the American Dental Association. Available facilities restrict first-year enrollment to 50 students. Interested persons should contact New Student Admission Services and the dental hygiene admissions clerk. Special application materials are included in requirements for admission to the program.

All application materials to the University and to the program for Fall 1991 should be on file by January, 1991. Applications received later than this will be considered as space is available. Individual applications will be reviewed as they become complete. Applications are reviewed until the class is filled. The earlier a candidate has submitted all necessary information, the greater the opportunity for acceptance.

The dental hygiene student has expenses of about \$2600 in addition to University tuition and fees. This covers the cost of instruments, uniforms, liability insurance, and a basic professional library; in addition they spend time at the School of Dental Medicine in Alton, Illinois, for an internship experience.

GEA 106 chemistry for non-science majors or equivalent plus GED 101 English composition or equivalent must be completed before entering the dental hygiene program in the fall. These need not be completed prior to applying to the program. They are not used in the admissions process, but are prerequisites for dental hygiene courses in the fall.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
AHC 141	Anatomy and Physiology	4	-
MICRO 201	Elementary Microbiology	-	4
DH 126	Oral Anatomy and Tooth Morphology	3	-
DH 133	Histology and Embryology	-	2
DH 137	Pre-Clinical Dental Hygiene	5	-
DH 138	Pathology	-	2
DH 147	Preventive Dentistry	1	-
DH 208	Clinical Dental Hygiene	-	4
DH 211a	Seminar	-	1
DH 218a	Dental Radiology	2	-
DH 226	Anatomy of the Head and Neck	2	-
DH 218b	Dental Radiology	-	2
DH 240	Pharmacology	-	2
		<u>17</u>	<u>17</u>
<u>Summer Session (8 weeks)</u>			
DH 209	Dental Hygiene Clinic	3	
DH 211b	Seminar	1	
DH 217	Dental Nutrition	2	
DH 241b	Periodontology	<u>2</u>	
		<u>8</u>	
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	-	3
DH 201	Dental Materials	4	-
DH 238	Oral Pathology	2	-
DH 248 and 348	Dental Public Health and Community Dentistry and Practicum	2	2
DH 310a,b	Clinical CH and Radiology	6	6
DH 311a,b	Senior Seminar	1	1
DH 315	Ethics, Jurisprudence and Office Management	-	2
GEB 108	The Sociological Perspective	-	3
GED 152	Interpersonal Communications	<u>3</u>	-
		<u>18</u>	<u>17</u>

A minimum of 83 hours is required for this program.

Representative First Job Titles: Dental Hygienist, Researcher, Health Administrator, Registered Dental Hygienist, Dental Hygiene Educator, Public Health Dental Hygienist.



Dental Technology is concerned with the construction of replacements for natural teeth which have been lost by disease or accident. A technologist trained in this art is called a Dental Technician.

The relationship of the dental technician to the dentist is similar to that of the pharmacist to the physician or the optician to the eye specialist. Important members of the dental health team, students find their skills and knowledge are invaluable. They work from a prescription from the dentist and are employed in the dental office or in dental laboratories varying in size from one to as many as 100 people.

The Dental Technology program includes extensive study covering all phases of dental technology and leads to an associate in applied science degree. The program was designed so that students would receive not only technical training but also general education courses to prepare them for a socially complex world. It is for this reason that approximately one-third of the total curriculum consists of general education courses.

The technical curriculum covers a complete study of dental morphology, fabrication of dental restorations and appliances in all the prosthetic phases of dentistry, dental materials, dental laboratory management and other related subjects. Students who enjoy working with their hands will find dental technology to be an especially rewarding career.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 101	Conceptual Insights, Modern Communication Systems	-	3
GEA 106	Chemistry for Non-Science Majors	3	-
GED 101	English Composition	3	-
DT 102*	Tooth Anatomy	4.5	-
DT 103a*	Complete Dentures I	4.5	-
DT 103b*	Complete Dentures II	-	4.5
DT 104a*	Removable Partial Dentures I	4.5	-
DT 104b*	Removable Partial Dentures II	-	4.5
DT 113a	Science of Dental Materials	-	2
DT 128	Oral Anatomy	-	1
DT 143	Orientation to Dental Technology	1	-
DT 110*	Dental Occlusion	-	4.5
		20.5	19.5
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CIP 229	Computing for Business Administration	-	3
GED 152	Interpersonal Communication	-	3
DT 113b	Science of Dental Materials	2	-
DT 202*	Dental Orthodontics & Pedodontics	4.5	-
DT 204a*	Crown and Bridge I	4.5	-
DT 204b*	Crown and Bridge II	4.5	-
DT 205	Dental Laboratory Management	1	-
DT 206a*	Dental Ceramics I	-	4.5
DT 206b*	Dental Ceramics II	-	4.5
DT 210*	Applied Prosthodontics	-	4.5
TC 120	Fiscal Aspects of Technical Careers I	3	-
		19.5	19.5

\*Five-week module.

#### Dental Technology As A Major

This program is the second oldest dental technology program in the country, and is the first of its kind in the state of Illinois to be accredited by the Commission on Dental Accreditation of the American Dental Association. The program has maintained 'full approval' accreditation status since it was founded in the summer of 1956.

The Commission's standards are sufficiently high to ensure that the graduate of such an accredited program has the best education it is possible to give in the time allocated. The faculty is highly qualified for teaching this portion of the dental field, having enjoyed many years of experience in dental education and technology education. This is backed by years of practical experience in the entire field. Graduates are eagerly sought by the owners of the many ethical laboratories throughout the United States and foreign countries.

The student should expect to spend about \$900.00 for a dental kit, laboratory jacket, Delta Tau Club, and recognized graduate exam fee over a two-year period.

Representative First Job Titles: Dental Technician, Sales Representative, Technical Representative.

**DESIGN**  
 (Product)  
 (Visual Communication)  
 School of Art and Design  
 College of Communications and Fine Arts  
 Bachelor of Arts

L. Brent Kington, Director  
 School of Art and Design  
 Telephone - 618-453-4315  
 Allyn Building, Room 109

Joyce Jolliff, Academic Adviser  
 Telephone - 618-453-4313  
 Allyn Building, Room 103

The faculty and students of the design program are a part of the School of Art and Design. Design is defined as devising innovative courses of action to change existing situations into preferred situations. This definition translated into the educational purpose of the design program means that our prime responsibility and goal is to develop students with conceptual and design capabilities to cope effectively with multi-faceted design problems.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 110	Earth Science (recommended)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE 107 or 201 or 236	Human Health and Well Being	2	-
AD 100a	2-Dimensional Design	3	-
AD 100b	3-Dimensional Design	-	3
AD 107	Fundamentals of Art	3	-
AD 110	Introduction to Drawing I	3	-
AD 122	Drawing for Communication	-	3
		<u>14</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 104	The Human Experience: Anthropology		
or 108	The Sociological Perspective		
or 205	Consumer Decision-Making (recommended)	-	3
GEC 205	Innovation for the Contemporary Environment	3	-
GED 153	Public Speaking (recommended)	3	-
GEE	Human Health (activity only)	2	-
AD 249	2D/3D Presentation	-	3
AD 207a,b	Introduction to Art History	3	3
AD 302a or	Beginning Etching, or	-	3
AD 302b or	Beginning Lithography, or		
AD 302c	Beginning Silkscreen		
CP 425	Studio Workshop (photo for design majors)	3	-
AD 213 or	Basic Materials and Processes (PD majors) or	3	-
AD 222	Type as Image (VC majors)		
AD 232 or	Graphic Reproduction (VC majors) or		
AD 253	Human Factors (PD majors)	-	3
		<u>17</u>	<u>15</u>

### Third and Fourth Years

If not completed at the junior college level, GEC 205 should be taken the first semester the transfer student is at SIUC. Other courses taken the last two years will include additional design core, professional preparatory and elective courses. Two options are available: product design and visual communication. AD 222 and 232 are prerequisites for the first of four courses in visual communication which must be taken in sequence. If these courses are not available at the community college, the student should expect to be enrolled at SIUC three years to complete the degree.

Studio courses will be evaluated for transfer credit on the basis of presentation of the work (or professional quality slides of it) executed in the course(s). Beginning in Fall 1991, admission will be based on a portfolio review to be conducted no later than upon completion of 100a, 100b, 110 and 122.

**Product Design:** Product designers create articles that are useful, safe, economical, attractive, and appropriate for specific human needs. They visualize and develop a wide range of items, from simple tools to complex microelectronic hardware, rehabilitation equipment to transportation systems. Under faculty supervision, students learn to use the theories, techniques, and materials common to the profession, defining the problem, assessing the need, developing the solution, and creating the product.

**Visual Communication:** Graphic designers work in advertising, packaging, promotions, publication, and/or exhibition design, for private industry, public concerns, or as free-lance designers. The program couples aesthetics with concept development, visualization techniques, a knowledge of tools and processes, and an understanding of message content, design methods, planning, and management.

**Representative First Job Titles:** Designer, Junior Art Director, Art Director, Retouch Artist/Designer, Comp Artist, Illustrator, Display Designer, Package Designer, Computer Graphics Designer/Specialist, Typographics Designer and Television Storyboard Artist.

**EARLY CHILDHOOD**  
(Child and Family Services)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Billy Dixon, Chairperson  
Telephone - 618-536-2441  
Wham Building, Room 327

Within a major in Early Childhood, the curriculum offers a specialization in Child and Family Services. These courses offer basic background leading to positions as nursery school director or teacher in private schools, and day care centers; director or non-certified teacher in residential living facilities for exceptional children; child care specialists with social, public health and welfare agencies; home economics extension specialists in child care; and recreational leaders.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
*GEB 108	The Sociological Perspective	-	3
*GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 152	Interpersonal Communication	-	3
GEE	Human Health and Well Being (select)	-	2
GEE 236	Nutritional Ecology	2	-
		<u>14</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	-
GEB	(select)	-	3
GEC	Humanities (select)	3	-
GED 107	Intermediate Algebra	-	3
GEE	P.E. Activity	-	2
GE	Additional coursework from A, B, or C	-	3
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	3	-
Elective		3	4
		<u>15</u>	<u>15</u>

\*Required General Education courses. See section on General Education for the Transfer Student.

Early Childhood As A Major

No minor required.

Flexibility of program provides for specialization in the areas of direct care of children, teaching, and community development related services.

Graduate degree available.

Faculty have varied interests in child development/family relations, retardation, motivation of the child, sex education, child abuse.

Excellent facilities--Child Development Laboratory with observation booth, and only infant care laboratory in the state.

Representative First Job Titles: Nursery School Director, Day Care Center Director, Child Care Specialist, Home Economics Extension Specialist, Recreational Leader, Residential Life Supervisor, Preschool Director, Child Behavior Education Specialist, Child Welfare Education Specialist, Child Placement Education Specialist, Family Welfare Education Specialist, Cultural Education Specialist, Sales Trainee, Children's Programs Organizer, Child Development Specialist, Minority Groups & Race Relations Education Specialist, Population Education Specialist, Teacher (Pre-School).

EARLY CHILDHOOD  
(K-3)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Billy Dixon, Chairperson  
Telephone - 618-536-2441  
Wham Building, Room 327

Following are the requirements for the Bachelor of Science degree with a concentration in early childhood education which meet the minimum requirements for a standard Elementary School Certificate.

In addition to general University and College of Education requirements, a student must meet all prerequisites to student teaching and should study the section in the Undergraduate Catalog which lists such requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (select) <sup>1</sup>	3	-
GEB 114	American Government	-	3
GEC 100 or *MUS 101	Music	-	3
GEC 101	Introduction to Art	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	P.E. Activity	1	1
GEE 201	Healthful Living	-	2
		<hr/> 16	<hr/> 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
GEB 202	Introduction to Psychology	3	-
GEB 301	History of U.S.	-	3
GEC	Literature (select or English required)	3	-
GEC 213	Course in Non-Western Civilization	-	3
MATH 114	Algebraic and Arithmetic Systems	4 (3)	-
MATH 314	Math for Elementary Teachers	-	3
PE 202	Physical Activity for Children and Youth	3	-
Elective	Area of Concentration <sup>2</sup>	-	3
		<hr/> 16 (15)	<hr/> 15

\*Strongly recommended

<sup>1</sup>See section on General Education for the Transfer Student.

<sup>2</sup>Teacher certification requirements include an 18-hour Area of Concentration in math, science, humanities or social studies (9 hours must be upper level).

Early Childhood Education (K-3) As A Major

Students who plan to teach grades K-3 should major in Early Childhood Education.

Students should also refer to the section in this handbook specifying the requirements for entrance into the Teacher Education Program.

Excellent facilities--Child Development Laboratory with observation booth, and only infant care lab in the state.



EARLY CHILDHOOD EDUCATION

(Preschool/Primary)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Billy Dixon, Chair  
Telephone - 618-536-2441  
Wham Building, Room 327

For the last decade educators have become increasingly aware of the importance of providing quality care and guidance for the preschool child. This program, offered by the College of Education, has been designed for persons interested in the education of children 0-8 years of age. Students following this program will meet state certification requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 202	Introduction to Psychology <sup>3</sup>	3	-
GEC	Humanities (Art or Literature) <sup>2,3</sup>	3	-
GED 101	English Composition <sup>3</sup>	3	-
GED 102	English Composition II <sup>3</sup>	-	3
MATH 114	Algebraic & Arithmetic Systems	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	P.E. Activity <sup>3</sup>	-	2
GEE 201	Healthful Living <sup>3</sup>	-	2
MUS 101	Music Fundamentals <sup>3</sup>	3	-
MATH 314	Geometry for Elementary Teachers	-	3
		<u>18</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEB 114 & 301	American Government and U.S. History <sup>3</sup>	3	3
GEC	Humanities (select) <sup>1</sup> (Art or Literature)	3	3
GEC	Elective <sup>3</sup> (East Asian Civilization)	-	3
CI 227	Marriage and Family Living	3	-
CI 237	Early Child Development I	3	-
PSYC 301	Child Psychology	-	3
		<u>15</u>	<u>18</u>

<sup>1</sup> See section on General Education for the Transfer Student. Must have 12 hours of science for state certification.

<sup>2</sup> Under Humanities, Music 101 is to be substituted for GEC 100. Art may be GEC 101, 204, or Art 100.

<sup>3</sup> Teacher certification requirements include GEB 202; GEB 114, 301; MUS 101; GEC 213; an art class; GED 101; GED 102 and a third English course; GEE 201; and GEE activity.

Science selection must include a laboratory course. A non-western or third world culture course is required (GEC 213). Additional general education courses required. Additional study in either math, science, social science or humanities to equal 18 hours (9 hours must be upper division coursework).

Refer to the Undergraduate Catalog for additional information on this program.

Specific General Education courses listed are required for this program.

Faculty have varied interests in Child Development/Family Relations, retardation, motivation of the child, sex education.

Excellent facilities--Child Development Laboratory with observation booth, and only infant care lab in the state.

The Economics major consists of 33 semester hours. Of these, 18 hours are required courses. With 15 hours remaining, a student can choose courses in the following areas: Comparative Systems, Economic Development, Economic History, Economic Theory, Econometrics, Human Resources, International Economics, Money and Banking, Political Economy, Public Finance. The flexibility permitted by the electives available makes possible a program tailored to meet the needs of individual career preparation plans.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107 or MATH 111	Intermediate Algebra or Precalculus	3-5	-
GED	Speech (select) <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
MATH 140 or MATH 150	Short Course in Calculus (if took GE-D 107) or Calculus I <sup>2</sup> (if took MATH 111)	- 14-16	4 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select)	-	3
GEC	Humanities (select) <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
*ECON 214, 215	Introduction to Macro and Micro Economics <sup>4</sup>	3	3
FL	Foreign Language <sup>3</sup>	4	4
Elective <sup>5</sup>		3 15	3 16

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>The mathematics requirement for economics majors is Math 140 or 150. This also fulfills a Liberal Arts requirement.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>4</sup>Part of Economics major requirement. Economics 214 also satisfies part of GEB requirements.

<sup>5</sup>Elective hours should be used in the following ways: 1) students may explore areas of interest or 2) arrange a program tailored to meet specific career objectives. For example students interested in a career in business or government should consider taking elective courses in accounting and other business subjects and computer science. Those considering graduate study in economics are encouraged to take several courses in mathematics.

#### Economics As A Major

Students majoring in economics find jobs in various areas of business, including banking and finance, industry, trade, and utilities to name a few. Many economics majors go to work for government agencies at all levels--federal, state, and local. For example, several SIUC graduates with economics majors have been hired by the Illinois Bureau of the Budget and other state agencies. Majoring in economics is also widely considered to be excellent preparation for graduate study in business, law or any of the social sciences. The requirements for a major in economics are very flexible with 26-33 hours of electives.

#### To Counselors

We recommend that high school students thinking of majoring in economics in college take as much English (composition and literature), mathematics, government, and history as possible. If economics is offered, that, of course, is recommended too. For community college students interested in economics, we recommend principles of macro and micro economics, English, and mathematics in addition to (or part of) general education courses.

Representative First Job Titles: Market Research Analyst, Econometrician, Economic Analyst, Economic Forecaster, Finance Administrator, Budget Analyst, Gov't Economic Enterprises Studies Officer, International Banking Officer, International Trade Economist, Investment Analyst, Loan Administrator, Industrial Economist, Manufacturer's Representative, Production Supervision, Price Economist, Transportation Economist, Labor Economist, Business Planner, Economic Geographer, Legislative Aide, Population Economic Analyst, Right-of-Way Agent, Tax Economist, Urban Economist.

See also: Civil Engineering, Mechanical Engineering, and Mining Engineering.

The Department of Electrical Engineering offers courses in the major areas of electrical and computer engineering. Students who choose the Electrical Engineering major prepare themselves for professional and technical employment or graduate studies leading to advanced degrees. Employment opportunities exist within a wide range of organizations such as governmental laboratories; consumer goods manufacturers; and telecommunications, electric power, computer and microelectronic companies. Flexibility in this major allows students to choose among courses in application and theory of circuits, systems, communications, digital systems, controls, electronics, instrumentation, electromagnetics and power systems. The Electrical Engineering major is fully accredited by the Accreditation Board for Engineering and Technology (ABET).

First Year		Fall	Spring
ENGR 222	Computational Methods for Engineers	-	2
GEB	Social Sciences (select) <sup>1,2</sup>	3	3
GEC	Humanities (select) <sup>1,2</sup>	3	3
GED 101	English Composition <sup>1,2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
CHEM 222a,c	Intro. to Chemical Principles and Lab <sup>3</sup>	4	3
MATH 150, 250	Calculus I & II <sup>3</sup>	4	4
		17	18
Second Year		Fall	Spring
EE 225	Introduction to Digital Systems	3	-
EE 235	Electric Circuits	-	4
ENGR 260a	Mechanics of Rigid Bodies (Statics)	2	-
GEA 115	Introductory Biology <sup>1,2,4</sup>	3	-
GEB	Social Studies (select) <sup>1,2</sup>	3	-
GEC	Humanities (select) <sup>1,2</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
MATH 251, 305	Calculus III and Differential Equations I	3	3
PHYS 205a,b	University Physics		
PHYS 255a,b	and Lab <sup>3</sup>	4	4
		18	16

<sup>1</sup>See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved general education courses.

<sup>2</sup>Due to accreditation standards, students transferring with a baccalaureate-oriented associate degree will need 16 sem. hours of Social Sciences and Humanities; eight or nine sem. hours of oral and written communications, and 18 sem. hours of basic science before graduation from SIUC. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 sem. hours of Social Sciences and Humanities from a community college will be counted toward this 16 hour requirement.

<sup>3</sup>Substitutes for General Education requirements.

<sup>4</sup>This course is not required for students transferring with a baccalaureate-oriented associate degree and 18 sem. hours of Chemistry and Physics.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in Engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the college's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include six sem. hours of English Composition; three sem. hours of Speech, eight sem. hours of University Physics, seven sem. hours of Chemistry; 11-14 sem. hours of Math, including Calculus; and two sem. hours of Analytical Mechanics (Statics). Calculus is a prerequisite for most junior-level courses.

**Representative First Job Titles:** Electrical Engineer, Product Development and Design Engineer, Product Application and Test Engineer, Sales, Operations Research Analyst, Patent Engineer, Communications Engineer, Computer Engineer, Power Engineer, Systems Engineer, Electronics Engineer, Software Engineer, Control Engineer, Digital Signal Processing Engineer.



The electronics management major combines advanced technical training with development of supervisory and management skills. Electronics management graduates enter a variety of electronic careers specialties including communications, automotive, avionics, personal computers, and biomedical applications. Beginning freshmen should apply to the appropriate associate degree major and plan to enter the electronics management program upon completion of the associate degree.

The bachelor of science degree in electronics management allows students with an associate in applied science degree to build upon their technical training through a combination of core courses, major requirements, approved major electives and SIUC general education requirements. The 46 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 46 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

**First Year**

GEA	Science (select)	3	3
GEB	Social Science (select)	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 107	Intermediate Algebra	-	3
GEE 107 or 201			
or 236	Human Health and Well Being (select)	2	-
Electives or	Technical Specialization	7	5
		<u>18</u>	<u>17</u>

**Second Year**

GEA	Science (select)	3	-
GEB	Social Science (select)	3	3
GEC	Humanities (select)	-	3
GED 102	English Composition II	-	3
GED 152	Interpersonal Communication or		
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (Activity)	-	2
Electives or	Technical Specialization	9	8
		<u>18</u>	<u>19</u>

\*GE Total = 46 hours. See advisor to determine eligibility for Capstone option. See Electronics Technology option for AAS requirements.

**Third and Fourth Years**

ATS core courses -- 12 hours required		
ATS 364	Work Center Management	3
ATS 416	Applications of Technical Information	3

**Two of the following:**

ATS 332	Labor Management Problems	3
ATS 383	Data Interpretation	3
ATS 421	Professional Development	3
		<u>12</u>

**Electronics Management Specialization Requirements - 15 hours**

ELT 301	Biomedical Instrumentation Lecture*	5
ELT 302	Optical Electronics Lecture	4
ELT 303	Microcomputer Const. & Trblsh. Lecture	5
ELT 304	Communication Systems	4
ELT 305	Microcomputer Repair	4
ELT 311	Biomedical Instrumentation Lab*	6
ELT 312	Optical Electronics Lab	2
ELT 313	Microcomputer Const. & Trblsh. Lab	6
ELT 314	Communication Systems Lab	4
		<u>15</u>

NOTE: At least one set of ELT lecture and lab courses is required. Competency tests will be administered during the first lecture period.

\*Biomedical option requires completion of 15-hour internship.

Electronics Management Specialization Electives-9 hours courses must be approved by advisor.

Internship, Independent Study or approved equivalent - 12 hours.

Approved career electives - 26 hours

TOTAL: 120 hours

**Representative First Job Titles:** Electronics Technician, Service Representative, Instrumentation Engineer, Technical Sales Representative, Customer Engineer, Quality Control Engineer.



Electronics Technology is not only a unique program in its high technical level of student preparation, but also in the fact that SIUC is one of the few state institutions that offers both a two year and four year degree in Electronics Technology. The student may obtain the two year degree and enter the job market or continue in the College of Technical Careers for a four year electronics degree. The program provides instruction for the education of electronics technologists who are capable of taking their place in the industry in a wide range of electronics positions. This program is a practical as well as a theoretical approach to electronics.

Students will gain a thorough understanding of AC-DC and active element circuits so that they can design, construct, test and analyze new types of circuitry. They will learn digital circuits and CAD as well as industrial systems to include Robotics in a theory-laboratory situation where they will develop the ability to solve problems and report test results in data sheets, graphs and technical papers. They will use diagnostic analysis to troubleshoot and repair electronics equipment.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	-	3
GED 153	Public Speaking	-	3
ELT 101	AC-DC Circuit Analysis Theory	5	-
ELT 111	AC-DC Circuit Analysis Lab	6	-
ELT 121	Electronics Devices	3	-
ELT 102	Electronics Circuits Theory	-	5
ELT 112	Electronics Circuits Laboratory	-	6
ELT 224	Computer System Applications	-	3
TC 105a,b	Technical Mathematics	4	-
		<u>18</u>	<u>20</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
TC 102	Technical Writing	-	2
TC 107a,b	Applied Physics	4	-
ELT 201	Telemetry and Industrial Circuits Theory	5	-
ELT 202	Digital Electronics Theory	-	5
ELT 211	Telemetry and Industrial Circuits Lab	6	-
ELT 212	Digital Electronics Laboratory	-	6
ELT 221	Electronics Systems Analysis	3	-
CIP 323	PASCAL Programming OR		
CS 202	Intro. to Computer Programming OR		
CS 212	Intro. to Business Computing	-	3
		<u>18</u>	<u>16</u>

Electronics Technology As A Major

Graduates are employed by major corporations such as: General Electric, Emerson Electric, AT&T Bell Research Laboratories, IBM, General Tire and Rubber Company, Digital Equipment Corporation, Texas Instruments, Rockwell, General Telephone (Automatic Electric), Motorola, McDonnell-Douglas, Zenith and many other major electronics companies. About 60% of these graduates work in direct support and the remaining indirect support of electronics engineers.

During the first year of the program, most instruction is directed toward basic principles of electricity and electronics. This is followed by digital circuits to include Microprocessors and Computer Aided Design and Industrial Systems which includes Robotics and other principles used in the electronics industrial world. Throughout the four semesters of study, students will have a minimum of ten hours of laboratory experiences (hands on) per week. Each laboratory class requires projects the student will design and construct. Second year students select projects related to personal interest within the framework of the class. While hands on experience is stressed, it by no means implies that theory is underemphasized. Each student receives eight hours per week of electronics theory lectures. Curriculum of both lectures and laboratories are constantly changing based on input from a very active Advisory Committee which is made up of representatives from IBM, AT&T, Texas Instruments, ITC/3M, ALCOA, Zenith, Motorola, GE-FANUC, Emerson Electric, and McDonnell-Douglas.

Workbooks and supplies required for laboratory courses cost approximately \$150.00. A minimum of 72 hours of credit must be completed for graduation.

Students who wish to complete a four year degree may do so in the College of Technical Careers. Advanced electronics courses are available in biomedical electronics, optoelectronics, microcomputer construction, communication systems electronics and computer maintenance. While it is possible to enter the four year degree program as a transfer student, it is highly recommended that each student enter the associate degree program in electronics at SIUC to ensure all skills are obtained that are expected in the advance electronics courses.

Representative First Job Titles: Electronics Technician, Bench Technician, Repair Analysis Technician, Bio-Medical Technician, Technical Sales Representative, Customer Engineer, Quality Control Engineer, Field Technician, Field Engineer.

**ELEMENTARY EDUCATION (K-9)**  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Billy Dixon, Chairperson  
Telephone - 618-536-2441  
Wham Building, Room 327

Following are the requirements for the Bachelor of Science degree with a concentration in elementary education which meet the minimum requirements for a standard Elementary School Certificate.

In addition to general university and College of Education requirements, a student must meet all requirements pertaining to prerequisites to student teaching and should study the section in the Undergraduate Catalog which lists such requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (elective)	-	3
GEC 101	Introduction to Art <sup>1</sup>	3	-
GEC 213	Humanities (Non-Western Civilization)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	P.E. Activity	2	-
Elective	Area of Concentration <sup>2</sup>	-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB 114	Introduction to American Government and Politics	3	-
GEB 202	Introduction to Psychology	3	-
GEB 301	U.S. History	-	3
GEC	Literature (select or English required)	3	-
GEE 201	Healthful Living	-	2
Elective	Area of Concentration <sup>2</sup>	-	4 (3)
MATH 114	Algebraic and Arithmetic Systems	3 (4)	-
MATH 314	Math for Elementary Teachers	-	3
MUS 101	Music Fundamentals (or GEC Music)	-	3
		<u>15 (16)</u>	<u>15 (14)</u>

<sup>1</sup> See section on General Education for the Transfer Student.

<sup>2</sup> Teacher certification requirements include an 18-hour Area of Concentration in math, science, humanities or social studies (9 hours must be upper level).

**Elementary Education (K-9) As A Major**

Students who plan to teach children from grades K-9 and specifically grades 4-6 should major in Elementary Education.

All students should refer to the section in the handbook specifying the requirements for entrance into the Teacher Education Program.

Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the technician and the engineer at the end of the spectrum closest to the engineer.

All curricula in Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. These include the Civil Engineering Technology, Electrical Engineering Technology, and Mechanical Engineering Technology curricula.

The CET specialization is for students interested in careers with construction companies, state and federal highway departments, architectural/engineering/surveying consulting firms, mining companies, railroads, testing laboratories, and governmental agencies. Graduates may participate in such civil engineering activities as surveying and the design and construction of airports, bridges, highways, dams, power plants, pipelines, mines, water and wastewater treatment plants, residential complexes, railroads and recreational facilities.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115, 117 or 118	Biological Science	-	3 or 4
GEB	Social Science (select)	-	3
GEC	Humanities (select)	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (select)	2	-
CHEM 115	Chemistry	3	-
ET 103	Engineering Drawing I	-	3
MATH 111	Pre-Calculus <sup>1</sup>	5	-
MATH 150	Calculus I	-	4
		<u>16</u>	<u>16 or 17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	Humanities (select)	-	3
GED 153	Public Speaking	3	-
ET 202	Structural Graphics	2	-
ET 260a	Principles of Mechanics, Statics	3	-
ET 390	Cost Estimating	-	3
MATH 250	Calculus II	4	-
PHYS 203a,b &			
PHYS 253a,b	College Physics and Lab <sup>1</sup>	4	4
ENGR 222	Computational Methods	-	2
MGMT 202	Business Communications	-	3
		<u>16</u>	<u>15</u>

<sup>1</sup>Substitutes for General Education.

#### Engineering Technology As A Major with a specialization in Civil Engineering Technology.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in engineering technology used in determining the major grade point averages are courses with the prefix ET. This is part of the college's Retention Policy.

A minor is not required. Foreign language is not required.

For the Bachelor's degree in CET the requirements are: 27 semester hours of mathematics and basic science; 30 semester hours of communications, humanities and social studies; 67 semester hours of required and elective technology courses. A minimum of 30 semester hours in Engineering Technology must be taken in residence at SIUC.

#### Career and Employment Opportunities in CET

Employment opportunities for graduates with B.S. degrees in Civil Engineering Technology are excellent. Graduates are employed by architectural/engineering/surveying firms, construction firms, state and local highway departments, and mining companies. Graduates are eligible to become licensed as Registered Land Surveyors after gaining appropriate post-graduation experience and passing required state licensing examinations.

Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the technician and the engineer at the end of the spectrum closest to the engineer.

All curricula in Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. These include the Civil Engineering Technology, Electrical Engineering Technology, and Mechanical Engineering Technology curricula.

The EET program is designed for students interested in careers in electronics, manufacturing, power generation, communication industries, and computer technologies. Students study electrical circuits, logic design, communications, microprocessors, and microcomputers. Other courses prepare them for participation in the planning and installation of power distribution systems and the operation and maintenance of complex electrical systems.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115, 117 or 118	Biological Science	-	3 or 4
GEB	Social Science (select)	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE 107 or 201 or 236	Human Health and Well Being (select)	2	-
CHEM 115	Chemistry	3	-
MATH 108	College Algebra <sup>1</sup>	3	-
MATH 109	Trigonometry <sup>1</sup>	-	3
		<u>14</u>	<u>15 or 16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select)	-	3
GEC	Humanities (select)	-	3
GEE	Human Health and Well Being (Activity)	-	2
ET 238	Digital Electronics	4	-
ET 245a	Electrical Systems for Industry	4	-
MATH 150	Calculus I	4	-
MATH 250	Calculus II	-	4
PHYS 203a,b &			
PHYS 253a,b	College Physics and Lab <sup>1</sup>	4	4
		<u>16</u>	<u>16</u>

<sup>1</sup>Substitutes for General Education.

#### Engineering Technology As A Major with a specialization in Electrical Engineering Technology.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in Engineering Technology used in determining the major grade point averages are courses with the prefix ET. This is part of the college's Retention Policy.

A minor is not required. Foreign language is not required.

For the Bachelor's degree in EET the requirements are: 28 semester hours of mathematics and basic science; 30 semester hours of communications, humanities and social studies; 67 semester hours of required and elective technology courses; and seven semester hours of specified electives. A minimum of 30 semester hours in Engineering Technology must be taken in residence at SIUC.

#### Career and Employment Opportunities in EET

Employment opportunities for graduates with B.S. degrees in Electrical Engineering Technology are excellent. Graduates are employed in the communications industry, electronic and electrical industries; by transportation industries and consulting firms; in the power and energy industries, in machinery manufacturing companies, and in many other areas.



Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the technician and the engineer at the end of the spectrum closest to the engineer.

All curricula in Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. These include the Civil Engineering Technology, Electrical Engineering Technology, and Mechanical Engineering Technology curricula.

The MET program is designed to prepare graduates for a career in power and manufacturing industries. Graduates are provided with a diverse background in several mechanical technologies, focusing on such areas as fluid power, thermal science, computer-aided drawing, mechanical design technology, and mechanical aspects of manufacturing systems.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115, 117			
or 118	Biological Science	-	3 or 4
GEB	Social Science (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE 107 or 201			
or 236	Human Health and Well Being (select)	2	-
CHEM 115	Chemistry	3	-
ET 103,104	Engineering Drawing I,II	3	3
MATH 111	Pre-Calculus <sup>1</sup>	5	-
MATH 150	Calculus I	-	4
		<u>16</u>	<u>16 or 17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	Humanities (select)	-	3
GED 153	Public Speaking	-	3
GEE	Human Health and Well Being (Activity)	2	-
ENGR 222	Computational Methods	-	2
ET 245a	Electrical Systems for Industry	4	-
ET 260a,b	Principles of Mechanics (Statics&Dynamics)	3	3
MATH 250	Calculus II	4	-
PHYS 203a,b &			
PHYS 253a,b	College Physics and Lab <sup>1</sup>	4	4
		<u>17</u>	<u>15</u>

<sup>1</sup>Substitutes for General Education.

#### Engineering Technology As A Major with a specialization in Mechanical Engineering Technology.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in Engineering Technology used in determining the major grade point averages are courses with the prefix ET. This is part of the college's Retention Policy.

A minor is not required. Foreign language is not required.

For the Bachelor's degree in MET the requirements are: 27 semester hours of mathematics and basic science; 30 semester hours of communications, humanities and social studies; 67 semester hours of required and elective technology courses. A minimum of 30 semester hours in Engineering Technology must be taken in residence at SIUC.

#### Career and Employment Opportunities in MET

Employment opportunities for graduates with B.S. degrees in Mechanical Engineering Technology are excellent. Graduates are employed by electric utilities, manufacturing firms, architectural/engineering firms, and other industries involving mechanical products or equipment.

The English Education major is designed to give the student a thorough background in composition, language, and literature. The various forms of English, American and world literature, contemporary and historic, are studied. The undergraduate major is preparatory for teaching at the secondary level, graduate study, or positions requiring effective communication of ideas.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB 114	American Government	3	-
GEB 202	Introduction to Psychology	-	3
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (Activity)	2	-
Electives <sup>3</sup>		<u>2</u>	<u>4</u>
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB 301	U.S. History <sup>2</sup>	-	3
GEC 330	Classical Mythology	-	3
GED 153	Public Speaking	3	-
GEE 201	Healthful Living	2	-
ENGL 290	Intermediate Expository Writing	3	-
Electives <sup>3</sup>		<u>5</u>	<u>6</u>
		16	15

<sup>1</sup>See also the program under the College of Liberal Arts.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup>Elective hours should be used in the following ways: (1) students may explore areas of interest; (2) they may select a minor.

#### In Addition

GPA 2.50 minimum for Teacher Education Program.

The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). General Education science courses must include one laboratory class.

**ENGLISH**  
(General)  
(Pre-Graduate Study)  
(Preprofessional)  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Richard Peterson  
Chairperson  
Telephone - 618-453-5321  
Faner Building, Room 2370

The general background in English is designed for the student who desires a broadly based flexible education leading to a Bachelor of Arts degree with a concentration in English, American and world literatures, including study in the various forms and periods of literature. This specialization is preparatory for graduate study and for occupations placing more than usual emphasis upon effective communication and organization of ideas (e.g., journalism, publishing).

If you have an excellent undergraduate record, a taste for literary analysis and criticism, and a desire to teach young adults rather than adolescents, you might want to consider college teaching as a career. This specialization, which allows a great deal of flexibility in choosing upper-division courses, is specifically designed for the student planning to attend graduate school. The program is designed to give the student a thorough background in composition, language, and literature, both contemporary and historic.

The preprofessional specialization in English is designed for the student who wants to write clearly and effectively and to read with greater understanding. In its emphasis upon language and communication, this program may be particularly attractive to pre-law students. Surveys also show that the English major's verbal abilities are highly desirable in business and government. Courses in literature are included to refine the student's awareness of language, capacity for analytic thinking, and understanding of human behavior.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC 330	Classical Mythology <sup>2</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	<u>2</u>	<u>2</u>
		14	17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	-
ENGL	English Literature <sup>2</sup>	-	3
ENGL	American Literature <sup>2</sup>	3	-
FL	Foreign Language	4	4
MATH or CS	Math or Computer Science <sup>4</sup>	-	3
Elective <sup>5</sup>		<u>3</u>	<u>4</u>
		16	14

<sup>1</sup> See General Education for the Transfer Student.

<sup>2</sup> Required by the major.

<sup>3</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>4</sup> One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>5</sup> Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

English As A Major

A major goal of general education, pre-graduate study and preprofessional specializations is to educate students to write clearly and effectively, to read precisely with insight and understanding and to know the history, the artistry, and the humane values of our linguistic and literary heritage. Students who wish to declare English as a concentration should consult the department's director of undergraduate programs as soon as they know they will major in English. If possible, transfer students should contact a departmental advisor before their first registration at SIUC. Any of the English options may be modified by entry into the departmental honors program.

Representative First Job Titles: Editor, Customer Services Personnel, Publications Personnel, Executive Secretary, Copywriter, Correspondent, Critical Writer, Feature Writer, Program Assistant, Reporter, Assistant Librarian, Rewriter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Interpreter.

The major in English may be pursued through the College of Liberal Arts or the College of Education if you are considering teaching English in secondary schools as a profession. The program is designed to give the student a thorough background in composition, language, and literature. The various forms of English, American and continental literature, contemporary and historic, are studied. The undergraduate major is preparatory for teaching, graduate study, or positions requiring effective communication of ideas.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	-
GEB 202	Introduction to Psychology <sup>2</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED	Math (select) <sup>1</sup>	-	4
GED 101	English Composition <sup>1,2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GED 153	Public Speaking <sup>2</sup>	-	3
GEE	Human Health and Well Being--activity (select) <sup>1,2</sup>	-	2
GEE 201	Healthful Living <sup>2</sup>	<u>2</u>	<u>-</u>
		14	18
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB 114 or 301	Intro. to Am. Gov't or U.S. History	3-4	-
GEC or FL	Humanities (select) <sup>1</sup> or Foreign Language <sup>3</sup>	3-4	3-4
ENGL	English Literature <sup>4</sup>	-	3
ENGL	American Literature <sup>4</sup>	3	-
MATH or CS	Math or Computer Science <sup>5</sup>	-	3
Elective <sup>6</sup>		<u>3</u>	<u>4</u>
		15-17	13-14

\*See also the program under the College of Education.

<sup>1</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup> Required for teacher certification.

<sup>3</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>4</sup> Required by the major.

<sup>5</sup> One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>6</sup> Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

#### English As A Major

Students who wish to declare English as a concentration should consult the department's director of undergraduate programs as soon as they know they will major in English. If possible, transfer students should contact a departmental advisor before their first registration at SIUC.

Students interested in this program should make themselves aware of the requirements for entering the Teacher Education Program, explained elsewhere in this text. The Department of English requires a 2.50 G.P.A. in the major and successful ('C' or better) completion of English 300, Introduction to Language Analysis, for recommendation to Unconditional Status in the Teacher Education Program.

Any of the English options may be modified by entry into the departmental honors program.



Students who wish to pursue and refine an interest in literature and language through their creative abilities may choose this specialization. The equivalent of seven courses, beyond the core curriculum required of all English majors, are offered on-campus, culminating in a senior writing project--a directed written project such as a collection of short stories or poems, a novel or a play. All instructors of these courses are people who have published their own creative writing and the major thrust of the work will be toward publication. An alternative to the senior project may be an internship in a publishing firm if appropriate arrangements can be made.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC 330	Classical Mythology <sup>2</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	-
ENGL 281,282,283	Beginning Fiction, Poetry, Drama <sup>2</sup>	3	3
FL	Foreign Language <sup>3</sup>	4	4
MATH or CS	Math or Computer Science <sup>4</sup>	-	3
Elective <sup>5</sup>		3	6
		<u>16</u>	<u>16</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Required by the major. The student should select two courses from 281, 282, and 283.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>4</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>5</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

#### English As A Major

Students interested in general writing and creative writing are strongly urged to confer with the director of undergraduate programs in English as soon as possible. The unique design of this specialization requires a great deal of advisement and consultation in order to insure that students go through the proper sequence of courses. If possible, transfer students should contact a departmental advisor before their first registration at SIUC.

Any of the English options may be modified by entry into the departmental honors program.

Representative First Job Titles: Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Announcer, Continuity Writer, Copywriter, Correspondent, Critical Writer, Editorial Writer, Feature Writer, Program Assistant, Reporter, Assistant Librarian, Rewriter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Recreation Specialist, Interpreter.

## FINANCE

(Financial Management Option)

(Financial Institutions Option)

College of Business and Administration (COBA)

(Bachelor of Science)

Dr. Iqbal Mathur

Chairperson, Dept. of Finance

Telephone - 618-453-2459

Henry J. Rehn Hall, Room 134

Finance is the acquisition, management and financing of resources for firms and individuals with due regard to market prices. Within the firm, financial considerations permeate the central decisions of research, engineering, production and marketing. Within governmental activities, sophisticated financial techniques are becoming increasingly important. The financial executive thus takes a key role in the successful management of both business and governmental operations.

The finance curriculum offers two areas of specialization to meet the varied interest of the students: 1) financial management and 2) financial institutions. The financial management program provides the background for a career in the financial operations of business firms and public institutions. The financial institutions specialization is designed for those interested in careers related to financial intermediaries and financial markets.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	3
GEB	Social Science <sup>1</sup>	3	-
*GEB 202	Introduction to Psychology <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	3	3
*GED 101	English Composition <sup>1</sup>	3	-
*GED 102	English Composition II <sup>1</sup>	-	3
*MATH 139	Finite Mathematics	3	-
*MATH 140	Short Course in Calculus	-	4
		<u>15</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	-	3
*GED 152,153	Public Speaking or Interpersonal Comm. <sup>1</sup>	3	-
*ACCT 220	Financial Accounting	3	-
*ACCT 230	Managerial Accounting	-	3
*CS 212 or	Intro. to Computer Programming <sup>3</sup>		
CIP 229	Computing for Business Admin. <sup>3</sup>	-	3
*ECON 214	Macro Economics <sup>2</sup>	3	-
*ECON 215	Micro Economics <sup>2</sup>	-	3
*FIN 270	Legal & Social Environment of Business <sup>3</sup>	3	-
*MGMT/ECON 208	Economic and Business Statistics	3	-
*MGMT 202	Business Communications	-	3
		<u>15</u>	<u>15</u>

\*Required course for a major in COBA.

<sup>1</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, "General Education for the Transfer Student."

<sup>2</sup> ECON 214 or 215 counts toward GEB credit.

<sup>3</sup> Course will be approved by articulation agreement with each college.

### Third and Fourth Years

As a declared Finance major, the student will take upper level business courses which will prepare the student for an exciting career in the Finance area. These courses include the remaining Core requirements and 21 credits in the Finance area.

### Finance As A Major

Neither minor nor foreign language required.

Graduate degrees available; Masters in Accountancy (M.Acc.), DBA.

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements.

The Department is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

See College of Business and Administration listing for their retention policy and the 40% rule.

Representative First Job Titles: Internal Auditor, Finance Administrator, Financial Analyst, Trust Administrator, Wage-Salary Administrator, Systems Analyst, Inventory Controller, Credit Analyst, Investment Analyst, Operations Research Analyst, Budget Administrator, Consumer Researcher, Controller, Credit Manager, Finance Officer, Financial Management Intern, Bursar Assistant (College), Grant Coordinator (College), Assistant Fiscal Officer, Assistant to the Paymaster, Payroll and Assignment Supervisor, Assistant to the Director of Finance, Head Cashier, Financial Planning Agent, Loan Administrator.

The Bachelor of Science in Fire Science Management is presently offered only at off-campus sites. This degree is designed to provide a technical management program of study which is made up of required core courses, program major requirements, approved major electives, and SIUC general education requirements.

Students who meet the University's baccalaureate admission requirements are eligible for admission. Transfer students must have a cumulative 2.0 GPA or better, based on SIUC coursework, to enter.

Students must complete all coursework in the program core and major requirements and elective areas with a 2.0 GPA or better. Additionally, students must fulfill all University requirements including general education, total hour requirements, residency requirements, and grade point average requirements.

Qualified students may be admitted to the Capstone option. This option reduces the number of hours required in general education from 45 to 30. Graduates of two-year occupational programs are encouraged to investigate and pursue the Capstone option. Students holding associate degrees (or equivalent certification) of at least 60 semester hours in non-baccalaureate programs with a minimum grade point average of 2.25 are eligible. Qualified students can fulfill the Bachelor of Science degree requirements by completing 60 additional semester hours of work approved by a Capstone advisor.

General education requirements may be satisfied by completing courses at any accredited institution of higher education or by credit received through CLEP, USAFI, DANTES, or proficiency examinations. Credit for health and physical education will be awarded for 12 or more months of military service.

Provision is made for recognizing many forms of previous educational, military, and occupational experience for credit toward the degree. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's advisor.

Admission to the Bachelor of Science in the Fire Science Management program does not imply admission to any CTC associate degree program.

**Fire Science Management Major (off-campus only)**

This major is designed to provide advanced practical coursework in the areas of management and supervision. It is designed primarily for students who hold or are nearing completion of the Associate in Applied Science degree or its equivalent in a fire science-related field from a technical institute or community college.

Many graduates from the major are employed in supervisory and management positions in the fire service, insurance industry, fire equipment manufacturing industry, and related fields.

General Education Requirements	46
Requirements for Major	48
Core Requirements: ATS 332, ATS 364, ATS 416, ATS 421	12
Fire Science Management Major Requirements: CIP 232, ATS 362, 387, 402, 412, POLS 340, 443, IT 465	24
12 hours of internship, independent study, or approved equivalent	12
Electives	<u>26</u>
TOTAL	120

## FOOD AND NUTRITION

(Food and Nutrition Science)  
Department of Animal Science,  
Food and Nutrition  
College of Agriculture  
(Bachelor of Science)

Dr. Robert D. Arthur, Chair  
Telephone - 618-453-2329  
Agriculture Building, Room 127

These courses give a strong scientific education to those interested in preparing for graduate study in food, nutrition or related disciplines; for research in university, industrial or governmental laboratories; or for educational and promotional work in industry or public health organizations.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115	Biology <sup>1</sup>	3	-
GEB	Social Sciences (select) <sup>2</sup>	3	3
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	-	1
MATH 108, 109	College Algebra and Trigonometry <sup>3</sup>	3	3
PHSL 208, 209	Physiology	-	4
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology <sup>1</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GEA, B, C	(Select) <sup>2</sup>	3	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	2	2
CHEM 222a,b	Introduction to Chemical Principles <sup>4</sup>	4	4
F&N 215	Fundamentals of Nutrition	2	-
	Electives	-	3
		<u>17</u>	<u>15</u>

<sup>1</sup> Required General Education courses.

<sup>2</sup> Refer to the section on General Education for the Transfer Student.

<sup>3</sup> Math 108 meets the University Math requirements.

<sup>4</sup> Chemistry 222a counts as GEA credit.

## Third and Fourth Years

The last two years of a student's program concentrate on chemistry, nutrition, and biological sciences. Students in the food and nutrition science specialization gain experience in various research methodologies and develop a working knowledge of the scientific method.

Representative First Job Titles: Food Technologist, Food and Drug Inspector, Food Buyer, Food Industry Technician, Food Products Salesman, Food Processing Technician, Food Service Supervisor, Quality Control Technician, Agricultural Commodities Inspector, Consumer Safety Inspector, Research for Consulting Firm, and Food and Beverage Control Officer.



## FOOD AND NUTRITION

(General Dietetics)  
Department of Animal Science,  
Food and Nutrition  
College of Agriculture  
(Bachelor of Science)

Dr. Robert D. Arthur, Chair  
Telephone - 618-453-2329  
Agriculture Building, Room 127

These courses give a strong scientific education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and community organizations. They meet the academic requirements of the American Dietetics Association.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 104	Anthropology <sup>1</sup>	-	3
GEB 202	Psychology <sup>1</sup>	-	3
GEB 211	Economics <sup>1</sup>	-	3
GEC	(Select) <sup>2</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 107	Intermediate Algebra <sup>1</sup>	3	-
GEE 236	Nutritional Ecology <sup>1</sup>	2	-
GEE	(Select) <sup>2</sup>	-	2
CHEM 140a,b	Chemistry <sup>3</sup>	4	4
		<u>15</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	(Select) <sup>2</sup>	3	3
GED 102	English Composition <sup>1</sup>	-	3
GED 156	Public Speaking <sup>1</sup>	3	-
CS 212 OR	Data Processing	-	3
CIP 104		-	3
FN 215	Intro to Nutrition	2	-
FN 256	Science of Food	5	-
FN 320	Nutrition	-	3
PHSL 301	Anatomy	-	4
		<u>13</u>	<u>16</u>

<sup>1</sup> Required General Education courses.

<sup>2</sup> Refer to the section on General Education for the Transfer Student.

<sup>3</sup> Chemistry 140a counts as GEA credit.

## Third and Fourth Years

The last two years of a student's program includes courses in nutrition, food science systems, medical nutrition, physiology, biology, biochemistry and psychology.

## Post-Baccalaureate Preparation

Students in dietetics are required by the American Dietetics Association to complete a post-baccalaureate internship or practicum in addition to their academic work. This requirement allows students to gain applied experiences in the environment of the profession. When students successfully complete the academic and experiential components, they are eligible to write the Registration Examination for Dietitians, a successful examinee is a Registered Dietitian and entitled to use the initials "RD" to signify professional competence.

Representative First Job Titles: Dietitian, Dietetic Technician, Food Service Supervisor.

**FOOD AND NUTRITION**

(Hotel, Restaurant and Travel Administration)  
 Department of Animal Science,  
 Food and Nutrition  
 College of Agriculture  
 (Bachelor of Science)

Dr. Robert D. Arthur, Chair  
 Telephone - 618-453-2329  
 Agriculture Building, Room 127

Hotel, Restaurant and Travel Administration (HRTA) is a multi-disciplinary program preparing students for challenging careers in the broad field of hospitality management. The academic emphasis of the program is on providing students with practical principles, management concepts and analytical tools related to the hotel and restaurant industries.

Due to the nature of the hospitality industry, the program recognizes the importance not only of academic theory but also the importance of obtaining appropriate hotel and restaurant industry experiences. The program has a two stage internship program and also uses on-site food service and lodging facilities as part of the academic courses.

Through this program transfer students from community colleges can also complete their baccalaureate degrees. (Refer to Capstone Section).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	-
GEB 211	Substitute with ECON 214 or 215	3	-
GEB	Social Sciences (select)	3	-
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107 OR	Intermediate Algebra <u>OR</u>		
MATH 139	Finite Mathematics	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
F&N 156	Fundamentals of Food	-	3
GEE	Human Health and Well Being	-	2
		<u>15</u>	<u>14</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Intro to Psychology	-	3
GEC	Humanities	3	3
GEA, B, C	Select	-	6
GEE 236	Nutritional Ecology of Man	2	-
ACCT 220	Principles of Accounting	-	3
CS 212	Introduction to Business Computing	3	-
F&N 202	The Hospitality and Tourism Industries	3	-
F&N 206	Food Service Sanitation	2	-
FIN 280	Business Law 1	3	-
		<u>16</u>	<u>15</u>

**Third and Fourth Years**

The last two years of the program concentrate on developing managerial and analytical abilities of students. Courses in all the aspects of hotel, restaurant and tourism management are taken. Each student has to select one of the five elective pathways. They are:

- (1) Resort Management/Tourism
- (2) Human Resource Management
- (3) Nutrition
- (4) Foreign Languages
- (5) General Management

Upon graduating, most students enter graduate management trainee programs lasting between 6-18 months.

**Representative First Job Titles:** Restaurant Manager, Hotel Sales and Marketing Manager, Food and Beverage Purchasing Officer, Front Desk Manager, Catering Manager, Food and Beverage Manager, Assistant Convention Coordinator, Assistant Hotel Manager and Ship's Purser.

**FOREIGN LANGUAGE AND INTERNATIONAL TRADE**  
**College of Liberal Arts**  
**(Bachelor of Arts)**

Dr. Margaret E. Winters, Chair  
 Dr. Eugene Timpe, Director  
 Telephone - 618-536-5571  
 Faner Building, Room 2162

The Foreign Language and International Trade major combines courses from the College of Liberal Arts and the College of Business and Administration. It consists of 30-32 semester hours of business-related courses and approximately the same number of credits in one of these foreign languages: French, German, Japanese, Spanish, Russian and Chinese. An internship late in the program gives the student opportunity to travel and work in an international company or agency.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 202	Psychology <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
FL	Foreign Language <sup>2,3,5</sup>	4	4
GED 107 or MATH 139	Intermediate Algebra or Finite Math	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 250	Politics of Foreign Nations <sup>2</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
ECON 214	Introduction to Macroeconomics <sup>2</sup>	3	-
ECON 215	Introduction to Microeconomics <sup>2</sup>	-	3
FL	Foreign Language <sup>2</sup>	4	4
		<u>16</u>	<u>15</u>

<sup>1</sup>To determine what courses may be taken to satisfy General Education requirements, see the section, General Education for the Transfer Student.

<sup>2</sup>Required for major.

<sup>3</sup>Four hours may be used for GEC credit.

<sup>4</sup>May be used for three credits in GEB.

<sup>5</sup>May be used for partial fulfillment of the College of Liberal Arts requirement.

**Foreign Language and International Trade As A Major**

The Foreign Language and International Trade major gives its graduates the best available training for entry into the international business community. Students take courses which give them background in the business world, the culture, religion, philosophy, politics, history and geography of the country where the language they are studying is spoken.

Besides the major courses, the student must complete all other General Education, College, and University requirements.

**Representative First Job Titles:** Market Researcher, Administrator of State, International, Federal, and Local Government Offices, Professional in areas including Taxes, Logistics, Banking, Insurance, Contracts and Sales.

**FOREIGN LANGUAGES (TEACHING)**

(French, German, Spanish)

College of Education

(Bachelor of Science)

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

Dr. Margaret E. Winters, Chair  
 Foreign Languages  
 Telephone - 618-536-5771  
 Faner Building, Room 2166

Major concentrations leading to the Bachelor of Science degree are offered in French, German, Latin, Russian, and Spanish. Courses are also offered in Chinese, Classical Greek, Italian, Portuguese, Serbo-Croatian, and Vietnamese. (Serbo-Croatian and Vietnamese are offered in cooperation with the Department of Linguistics, etc.). Programs offered in foreign languages can be preparatory for graduate study, teaching, or other positions requiring the ability to speak, read, understand, and interpret foreign languages. The federal government provides opportunities for individuals with such skill.

Many graduates with foreign language skills can find interesting opportunities with private industry, foreign news bureaus, airlines, and travel agencies as well. In addition, university and research institute libraries, and social work agencies offer varied work situations for people with foreign language facility.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB 114	American Government	3	-
GEB 202	Introduction to Psychology	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	PE Activity <sup>1</sup>	2	-
GEE 201	Healthful Living	-	2
FL	Elementary French, German, and Spanish	4	-
FL	Continue above	-	5
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 301	U.S. History <sup>1</sup>	-	3
GEC	English elective in Humanities (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 153	Public Speaking	-	3
GE	Elective	3	-
FL	Intermediate French, German, or Spanish	4	4
		<u>16</u>	<u>16</u>

<sup>1</sup>Refer to section General Education for the Transfer Student.

Courses required for certification include GEB 202; GEB 114; GEB 301; GED 101; GED 102; GED 153; GEE 201; one additional English course from GEC, GED, or department. At least one three semester hour course must be taken in non-western or third world cultures from Humanities or Social Studies (GEC 213). General Education science courses must include one laboratory course.

**Language As A Major**

Students interested in majoring in any of the offered languages should be aware of the requirements for entrance into the Teacher Education Program.

No minor is required. However, minors are available in Chinese, Greek, Latin, East Asian Civilizations, Italian, and Japanese.

Graduate degrees are available.



**FORESTRY**  
 (Forest Resources Management Specialization)  
 College of Agriculture  
 (Bachelor of Science)

Dr. Dwight R. McCurdy, Chair  
 Telephone - 618-453-3341  
 Agriculture Building, Room 184

The goal of the Forest Resources Management specialization is to develop individuals with sufficient understanding of the physical, biological and economic considerations required to make sound management decisions for the multiple-use of forest resources. The program in forest resources management includes instruction leading to careers in forest management and production, multiple-use resource management, and the forest products industries. The specialization is accredited by the Society of American Foresters. Emphasis is upon integrated resource management of natural and renewable resources, coordinating forest utilization methods and conservation practices, and preserving our wildlands heritage. A five-week session (Field Study) is required after the junior year to give the student practical field experience.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology	-	4
GEB	Social Studies (select) <sup>2</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	-	2
BOT 200	General Botany with Lab <sup>1</sup>	4	-
CHEM 140 a & b	Chemistry <sup>1</sup>	4	4
FOR 200	Introduction to Forestry	1	-
MATH 140	Calculus <sup>1</sup>	-	4
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	Humanities (select) <sup>2</sup>	6	3
GED 153	Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	-	2
BIOL 307	Environmental Biology <sup>1</sup>	3	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	1
FOR 331	Forest Ecosystems	-	3
MATH 283	Introduction to Applied Statistics	-	3
PLSS 240	Soil Science	4	-
		<u>17</u>	<u>15</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this major, please refer to the section, General Education for the Transfer Student.

Third and Fourth Years

The last two years of study is concentrated in a series of forestry and related areas which enable the student to develop professional competencies in the management of forest resources. Students gain experience with field applications of professional skills during a five week early summer session immediately following the junior year.

Forestry As A Major

Available to the Department of Forestry for teaching and research are the following: the Crab-Orchard National Wildlife Refuge; the Shawnee National Forest; the Union State Tree Nursery and Forest and many state parks and conservation areas together comprising several hundred thousand acres of forest land, all in the vicinity of the University. Also accessible for wood utilization teaching and research is a modern wood products plant located at the Vocational-Technical Institute east of Carbondale. The Southern Illinois University Experimental Forest and Giant City State Park provide additional facilities for teaching and research, especially during the spring camp. In addition, staff members of the U.S. Forest Service Carbondale Research Center are affiliated with the Department of Forestry and help to enrich the University's forestry program.

Representative First Job Titles: Agricultural Aid, Recreational Resource Planner, Forest Engineer, Silviculture Specialist, Forest Utilization Specialist, Forest Recreation Specialist, Range Manager, Watershed Manager, Wildlife Manager, Forest Products Technologist, Animal Ecologist, Plant Ecologist, Pollution Control Specialist, Forest Conservation Specialist, Public and Environmental Health Forester, Parks Supervisor, Grazing Lands Supervisor, Research Forester, Forest Extension Worker, Timber Manager, Park Ranger, Soil Conservationist, Forest Resources Manager.

The forest science option is intended for students who plan to enter a graduate program in forestry upon completion of the baccalaureate program. The student and his or her advisory committee, consisting of two Department of Forestry faculty members, plan an individualized program to meet the student's educational and professional goals. The program of study may be selected from any subject within the competence of the Forestry Department faculty.

Admission to the program is limited to students with a grade point average of 3.0 or above (on a 4.0 = A scale) and the student must maintain a 3.0 or above average to remain in the program.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology	4	-
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	-	1
BOT 200	General Botany with Lab <sup>1</sup>	-	4
CHEM 140a & B	Chemistry <sup>1</sup>	4	4
FOR 200	Introduction to Forestry	1	-
MATH 140	Calculus <sup>1</sup>	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 102	English Composition II <sup>2</sup>	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	2	2
BIOL 307	Environmental Biology <sup>1</sup>	3	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	1
FOR 331	Forest Ecosystems	-	3
MATH 283	Introduction to Statistics	-	3
PLSS 240	Soil Science	-	4
		<u>18</u>	<u>16</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>To determine what courses may be taken to satisfy general education requirements for this major refer to the section General Education for the Transfer Student.

### Third and Fourth Years

There are four additional forestry courses which are required during the third and fourth years to complete the professional forestry core. The remainder of the third and fourth years are elective, selected by the student and his or her committee to satisfy the student's educational and professional goals.

### Forestry As A Major

Available to the Department of Forestry for teaching and research are the following: the Crab-Orchard National Wildlife Refuge; the Shawnee National Forest; the Union State Tree Nursery and Forest and many state parks and conservation areas together comprising several hundred thousand acres of forest land, all in the vicinity of the University. Also accessible for wood utilization teaching and research is a modern wood products plant located at the Vocational-Technical Institute east of Carbondale. The Southern Illinois University Experimental Forest and Giant City State Park provide additional facilities for teaching and research, especially during the spring camp. In addition, staff members of the U. S. Forest Service Carbondale Research Center are affiliated with the Department of Forestry and help to enrich the University's forestry program.

Representative First Job Titles: Agricultural Aid, Recreational Resource Planner, Forest Engineer, Silviculture Specialist, Forest Utilization Specialist, Forest Recreation Specialist, Range Manager, Watershed Manager, Wildlife Manager, Forest Products Technologist, Animal Ecologist, Plant Ecologist, Pollution Control Specialist, Forest Conservation Specialist, Public and Environmental Health Forester, Parks Supervisor, Grazing Lands Supervisor, Research Forester, Forest Extension Worker, Timber Manager, Park Ranger, Soil Conservationist, Forest Resources Manager.

## FORESTRY

(Outdoor Recreation Resources  
Management Specialization)  
College of Agriculture  
(Bachelor of Science)

Dr. Dwight R. McCurdy, Chair  
Telephone - 618-453-3341  
Agriculture Building, Room 184

The goal of the Outdoor Recreation Resource Management option is to prepare students for entry into professional careers in managing and administering wildlands for outdoor recreation and park uses in a variety of agencies operating programs in diverse geographic and natural settings. The program in Outdoor Recreation Resource Management provides interdisciplinary professional training in developing, maintaining and managing forests and wildlands as recreational areas. The specialization is accredited by the Society of American Foresters. The courses offered are among those recommended by the National Recreation and Park Association. A special feature of the outdoor recreation resource management option is the two-week tour through selected sections of the U.S. to study outdoor recreation and park facilities. This tour normally is programmed in the summer following completion of the third year in the program.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Environmental and Biological Studies (select) <sup>2</sup>	-	3
GEB	Social Studies (select) <sup>2</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	-	2
BOT 200	General Botany with Lab <sup>1</sup>	4	-
CHEM 140a & b	Chemistry (organic/inorganic) <sup>1</sup>	4	4
FOR 200	Introduction to Forestry	1	-
MATH 140	Calculus <sup>1</sup>	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Environmental and Biological Studies (select) <sup>2</sup>	3	-
GEB	Social Studies (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	3	-
GEC 205	Innovation for the Contemporary Environment	-	3
GED 153	Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	1
FOR 331	Forest Ecosystems	-	3
MATH 283	Introduction to Applied Statistics	-	3
PLSS 240	Soil Science	4	-
		<u>16</u>	<u>16</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this major, please refer to the section, General Education for the Transfer Student.

### Third and Fourth Years

Professional and related courses are emphasized during the junior and senior years to develop competence in management of recreational resources of forested environments. A three week summer tour of outdoor recreation facilities is included.

### Forestry As A Major

Available to the Department of Forestry for teaching and research are the following: the Crab-Orchard National Wildlife Refuge; the Shawnee National Forest; the Union State Tree Nursery and Forest and many state parks and conservation areas together comprising several hundred thousand acres of forest land, all in the vicinity of the University. Also accessible for wood utilization teaching and research is a modern wood products plant located at the Vocational-Technical Institute east of Carbondale. The Southern Illinois University Experimental Forest and Giant City State Park provide additional facilities for teaching and research, especially during the spring camp. In addition, staff members of the U. S. Forest Service Carbondale Research Center are affiliated with the Department of Forestry and help to enrich the University's forestry program.

Representative First Job Titles: Agricultural Aid, Recreational Resource Planner, Forest Engineer, Silviculture Specialist, Forest Utilization Specialist, Forest Recreation Specialist, Range Manager, Watershed Manager, Wildlife Manager, Forest Products Technologist, Animal Ecologist, Plant Ecologist, Pollution Control Specialist, Forest Conservation Specialist, Public and Environmental Health Forester, Parks Supervisor, Grazing Lands Supervisor, Research Forester, Forest Extension Worker, Timber Manager, Park Ranger, Soil Conservationist, Forest Resources Manager.



Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, French, Foreign Language and International Trade, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. The student who has taken two years of one foreign language in high school (or equivalent) has the option to earn proficiency credit through taking a proficiency exam in Latin at the Testing Center or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. The Foreign Language Department will honor CLEP exams in French, German and Spanish. As an alternative or for additional credit, students who can enter at the 200 level or above are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

In addition to the personal satisfaction and substantial growth in intellectual resources that come with mastery of a new language, there are numerous types of employment and career possibilities that are opened up by appropriate training in foreign languages. These can be classified as: 1) employment in non-language areas where language proficiency is a supporting factor, and 2) language-centered careers. Government agencies (federal, state, and many local), and businesses that have international dealings, employ great numbers of individuals on the basis of skills that are basically non-linguistic (scientists, engineers, librarians, social workers).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
FR 123a,b or	Elementary French <sup>2</sup>		
FR 201a,b	Intermediate French	4	4
		15	16
<u>Second Year</u>			
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
FR 220a,b	Intermediate French Conversation <sup>4</sup>	2	2
FR 201a,b or	Intermediate French or <sup>3</sup>	4	4
FL 320 & FR 321	Adv. Language Skills & Adv. Conversation	(4)	(3)
MATH or CS	Math or Computer Science <sup>5</sup>	-	3
		15	15

\*See also Foreign Language Education under the College of Education.

<sup>1</sup> See General Education for the Transfer Student.

<sup>2</sup> Two semesters (general eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit. This first year of French does not count toward the major.

<sup>3</sup> Required by the major. Students with more than one year of high school French should take at least one substantial course in the French major each semester.

<sup>4</sup> French 200a,b is recommended but does not usually count towards major or minor requirements.

<sup>5</sup> One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

#### French As A Major

A major in French consists of 36 semester hours in courses above the 100 level with a minimum of 14 hours on the 300 level (to include 320), 14 hours on the 400 level (may include FL 436), and one literature course at the 300 or 400 level is required. A minor in French consists of 18 semester hours in courses above the 100 level (to include 320). Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

Representative First Job Titles: Airline Stewardess, Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Announcer, Continuity Writer, Copywriter, Correspondent, Critical Writer, Editorial Writer, Feature Writer, Program Assistant.



The Department of Geography specializes in Environmental Planning and Cartography and information management. Students may earn the Bachelor of Arts or the Bachelor of Science degree in Liberal Arts or the Bachelor of Science degree in Education. Programs for the Liberal Arts degree are oriented toward graduate work, and careers in industry and governmental agencies. The Bachelor of Science in Education prepares a student for secondary school or community college teaching.

The program offers a variety of courses. A typical program for the freshman and sophomore years is listed below.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB 103	Geography of the Human Environment	3	-
GEB 301	U.S. History <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	-
GEE 201	Healthful Living <sup>2</sup>	-	2
		<u>17</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 330	Weather	3	-
GEB 114	American Government	3	-
GEB 202	Introduction to Psychology	3	-
GEC	English Elective in Humanities (select) <sup>2</sup>	3	-
GED 153	Public Speaking <sup>2</sup>	-	3
GEOG 300	Introduction to Geography	-	3
GEOG 302	Physical Geography	-	3
Electives <sup>2</sup>		<u>3</u>	<u>6</u>
		<u>15</u>	<u>15</u>

<sup>1</sup> See also the program under the College of Liberal Arts.

<sup>2</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). General Education science courses must include one laboratory class. At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213).

#### Geography As A Major

The geography major will take many other courses in the junior and senior years. These include Natural Resources Planning, Water Resources Hydrology, Recreation, Planning, Environmental Systems Analysis, Computer Cartography, Geographic Information Systems, and Regional Planning. The department offers regional geography of Illinois, the United States, and the world. Geography majors must also have a minor (Geology, Forestry, or Economics are typical).

The Department of Geography has an abundance of resources to support its instructional program. Morris Library contains over 100,000 maps. The department also maintains a Cartographic Laboratory where students obtain training in map construction and the Environmental Simulations Laboratory (ESL) which develops software for computer simulation of environmental problems such as weather, air and water pollution, floods and earthquakes. The personal computer facilities of ESL are used extensively for computer assisted instruction.

Finally, southern Illinois provides a natural laboratory for geography students. The diversity in physical landforms and geomorphology, economic and cultural environments provides excellent conditions for students pursuing in-depth studies in southern Illinois.

The Department of Geography specializes in Environmental Planning, and Cartography and information management. Students may earn the Bachelor of Arts or the Bachelor of Science degree in Liberal Arts or the Bachelor of Science degree in Education. Programs for the Liberal Arts degree are oriented toward graduate work and careers in industry, and governmental agencies. The Bachelor of Science in the Education degree program prepares a student for secondary school or community college teaching.

The program offers a variety of courses. A typical program for the freshman and sophomore years is listed below.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 103	Geography of the Human Environment (optional)	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	<u>2</u>	<u>2</u>
		14	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Physical or Biological Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
FL	Foreign Language <sup>2</sup>	4	4
GEOG 300	Introduction to Geography <sup>3</sup>	3	-
GEOG 310	Introductory Cartography <sup>4</sup>	-	3
MATH 108	College Algebra <sup>4,5</sup>	-	3
Elective		<u>3</u>	<u>-</u>
		16	16

\*See also the program in the College of Education.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>3</sup>Required by the major.

<sup>4</sup>Geography requires Math 108 and Math 116 or 139.

<sup>5</sup>Math 108 or Computer Science 102, 129 or 212 satisfy the Liberal Arts mathematics requirements for students beginning college Fall 1978 or later.

#### Geography As A Major

The geography major will take many other courses in the junior and senior years. These include Natural Resources Planning, Water Resources Hydrology, Recreation Planning, Environmental Systems Analysis, Computer Cartography, Geographic Information Systems, and Regional Planning. The department offers regional geography of Illinois, the United States and the world. Geography majors also must have a minor (Geology, Forestry or Economics are typical).

The Department of Geography has an abundance of resources to support its instructional program. Morris Library contains over 100,000 maps. The department maintains a Cartographic Laboratory where students obtain training in map construction.

The Environmental Simulations Laboratory (ESL) develops software for computer simulation of environmental problems such as weather, air and water pollution, floods, and earthquakes. The personal computer facilities of ESL are used extensively for computer assisted instruction.

Finally, southern Illinois provides a natural laboratory for geography students. The diversity in physical landforms and geomorphology, economic and natural resources, and cultural environment provide excellent conditions for students pursuing in-depth studies in southern Illinois.

Representative First Job Titles: Geographer, Environmental Planner, Cartographer, Geographic Information Systems Specialist, Regional Analyst, Photo-Intelligence Specialist, Map Librarian, Location Analyst, Sales Representative, Planner, Conservation Specialist, Recreation Planner.

Geology is the science of the earth. It deals with earth materials, processes and history. Both field and laboratory studies are important aspects of geological work. Employment opportunities for geologists are found within state and federal geological surveys, private and public organizations concerned with the quality and development of water resources, engineering firms, government agencies concerned with planning, land use, geologic hazards, construction, hazardous waste disposal, and the petroleum, coal and other mining industries. Other geologists become teachers at a variety of levels from grade school to college.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Sciences (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (Activity)	2	-
CHEM 222 a,b	Introduction to Chemical Principles <sup>1,4</sup>	4	4
GEOL 220	Physical Geology <sup>1</sup>	3	-
GEOL 221	Historical Geology	-	3
MATH 108,109	College Algebra and Trigonometry <sup>1,4</sup>	3	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Sciences (select)	-	3
GEC	Humanities (select)	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE 107 or 201 or 236	Human Health and Well Being (select)	-	2
FL	German, Russian, French or Spanish recommended <sup>1,4</sup>	4	4
GEOL 310 or	Mineralogy <sup>2</sup> or	4	-
MATH 150	Calculus I <sup>3</sup>	(4)	-
PHYS 203, 253 or 205, 255	College Physics or University Physics <sup>1,3</sup>	4	4
		<u>15</u>	<u>16</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>If more advanced geology courses such as mineralogy are not offered at your school, take calculus, social studies, humanities, plant biology or zoology instead. Our program is designed so that a transfer student can easily finish the geology curriculum in two years provided the student has taken most of the specified courses in chemistry, physics, foreign language and mathematics.

<sup>3</sup>If Physics 205 is taken, the student must enroll concurrently (or previously) in Math 150.

<sup>4</sup>Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

**Third and Fourth Years:** The last two years of a student's program allow some concentration on professional objectives. Students in the Bachelor of Arts degree program would take geology courses, biology courses, social studies, humanities and a large number of elective courses. Students in the Bachelor of Science degree program would take some additional social studies and humanities, biology courses, required geology courses and geology electives, a science or technology elective and free electives. The Department has excellent laboratory facilities. SIUC is located close to a variety of geologic settings suitable for field research and trips.

**Geology As A Major:** Students in geology can work toward a Bachelor of Arts or a Bachelor of Science degree. The B.S. curriculum is recommended for those planning to pursue graduate studies or a professional career in geology. A summer field course in the Rocky Mountains (normally taken between the junior and senior years) is required for the B.S. degree and is strongly recommended for the B.A. degree. The Department has state of the art laboratory and field equipment. Students are permitted to utilize this equipment and are encouraged to use it in independent study projects. With few exceptions, classes for geology majors tend to be small, and students have the opportunity for close contact with the faculty and receive individual attention both within and outside the classroom. The Department assists students in finding suitable graduate programs or jobs in geology and related areas.

**Representative First Job Titles:** Geologist, Astrogeologist, Cartographer, Environmental Scientist, Economic Geologist, Exploration Geologist, Inorganic Geochemist, Organic Geochemist, Isotope Geochemist, Geological Engineer, Geological Oceanographer, Geological Researcher, Geophysical Exploration Scientist, Geophysicist, Groundwater Geologist, Hydrogeologist, Volcanologist, Igneous Petrologist, Metamorphic Petrologist, Petroleum Geologist, Photogeologist, Resource Evaluator, Sedimentologist, Stratigrapher, Surveying Geologist, Geomorphologist, Structural Geologist, Product Studies and Testing Geologist, Seismologist, Paleontologist, Laboratory Assistant, Teacher, Professor.



Programs of study in foreign languages leading to the Bachelor of Arts degree in the College of Liberal Arts (with or without teacher certification) are offered in Classics, French, Foreign Language and International Trade, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree in the College of Liberal Arts for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. The student who has taken two years of one foreign language in high school (or equivalent) has the option to earn proficiency credit through taking a proficiency exam in Latin at the Testing Center or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. The Foreign Language Department will honor CLEP exams in French, German and Spanish. As an alternative or for additional credit, students who can enter at the 200 level or above are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

In addition to the personal satisfaction and substantial growth in intellectual resources that come with mastery of a new language, there are numerous types of employment that are opened up by appropriate training in foreign languages. These can be classified as: 1) employment in non-language areas, and 2) language-centered careers. Government agencies (federal, state, and many local), and businesses that have international dealings, employ great numbers of individuals on the basis of skills that are basically non-linguistic (scientists, engineers, librarians, social workers).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
GER 126a,b	Elementary German <sup>2</sup>	4	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
GER 201a,b	Intermediate German <sup>3</sup>	4	4
MATH or CS	Math or Computer Science <sup>4</sup>	-	3
		<u>15</u>	<u>13</u>

\*See also Foreign Language Education under the College of Education.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit. This first year of German does not count toward the major.

<sup>3</sup>Required by the major. Students with more than one year of high school German should carry at least one substantial course in the German major each semester.

<sup>4</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

#### German As A Major

A major in German consists of 36 semester hours in courses above the 100 level, to include the basic language sequence and one literature course (300 or 400 level). The student must complete 12 hours on the 300 level (to include 320) and 12 hours on the 400 level, plus 4 hours of electives on the 300 or 400 level. A minor in German consists of 18 semester hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 21 semester hours in language courses at SIUC.

Representative First Job Titles: Airline Stewardess, Customer Services Personnel, Executive Secretary, Copywriter, Reporter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Recreation Specialist, Interpreter.



HEALTH CARE MANAGEMENT  
College of Technical Careers  
(Bachelor of Science)

Dr. Elaine M. Vitello, Coordinator  
Telephone - 618-453-8898  
Technical Careers Building  
Room 126

The health care management major provides coursework and experience across the spectrum of health care supervision and management. Many HCM graduates obtain supervisory and administrative positions in various health and medical care facilities such as hospitals, nursing homes, public health departments, and health care training institutions. The bachelor of science in health care management allows students who have completed an A.A.S. degree or diploma program to build upon their technical training through a combination of core courses, major requirements, approved major electives, and SIUC general education requirements.

The 46 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option which reduces the hours required in General Education from 46 to 30. Students also may receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. Field internships and independent study opportunities are available upon approval by the student's faculty advisor.

First Year

GEA	Science (select)	3	3
GEB	Social Science (select)	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select)	2	-
Electives or	Technical Specialization	7	5
		18	17

Second Year

GEA	Science (select)	3	-
GEB	Social Science (select)	3	3
GEC	Humanities (select)	-	3
GED 102	English Composition II	-	3
GED 152	Interpersonal Communication or		
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (select)	-	2
Electives or	Technical Specialization	9	8
		18	19

\*GE Total = 46 hours. See advisor to determine eligibility for Capstone option.

Third and Fourth Years

ATS core courses	-- 12 hours required	
ATS 364	Work Center Management	3
ATS 383	Data Interpretation	3
ATS 416	Applications of Technical Information	3

One of the following:

ATS 332	Labor Management Problems	3
ATS 421	Professional Development	3
		12

Health Care Management Specialization Requirements - Minimum 15 hours

ATS 380	Seminar in Health Care Services	3
ATS 381	Health Care Management	3
ATS 382	Health Economics	3
ATS 384	Equipment and Material Management	3
ATS 385	Fiscal Aspects of Health Facilities	3
ATS 388	Legal Aspects of Health Care	3
		15

Persons who wish to sit for the State Nursing Home Licensure Examination may complete a course of study in nursing home administration (listed below) that is approved under Title 68:Section 310.40 of the Rules for Nursing Home Administrators Licensing Act.

ATS 364	Work Center Management	3
ATS 413	Nursing Home Management	3
ATS 385 AND	Fiscal Aspects of Health Facilities	3
HED 440 OR	Health Issues in Aging	3
REHB 446	Psychosocial Aspects of Aging	3
		12

Health Care Management Specialization Electives - 9 hours

Courses must be approved by advisor.

Internship, independent study, or approved equivalent - 12 hours

Approved career electives - 26 hours

TOTAL: 120 hours

HEALTH EDUCATION  
(Community Health)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Dale Ritzel, Chair  
Telephone - 618-453-2777  
Arena, Room 126

The Department of Health Education offers two specializations within the health education major and two programs of minimal professional preparation. The two specializations are:

1. Health Education in Secondary Schools. For those planning to teach or supervise health education in the secondary schools.
2. Community Health. For those planning to conduct health education and health promotion activities in non-classroom settings.

The two minimal professional preparations are:

1. Health Education in Secondary Schools. For those certified to teach in Illinois secondary schools who wish minimal preparation to teach health education.
2. Driver Education. For those planning to teach driver education in Illinois secondary schools.

These specializations in general constitute minimal preparation for the positions listed. Consequently, all candidates are strongly urged to complete additional work in the field. The Community Health specialization does not lead to teacher certification. The following are recommended courses for this specialization.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
Electives	Including P.E. Activity	2	3
		<hr/> 16	<hr/> 17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GE	Additional course work from A, B, or C (select) <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
Electives		6	3
		<hr/> 15	<hr/> 15

<sup>1</sup>Refer to the section General Education for the Transfer Student.

Third and Fourth Years

For the remaining years of the degree program, the student will concentrate on specific requirements in health education and related areas.

The community health specialization is also an attractive bachelor's degree alternative for students holding an associate in applied science degree in a health field.

**HEALTH EDUCATION**  
(Health Education in Secondary Schools)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Dale Ritzel, Chair  
Telephone - 618-453-2777  
Arena, Room 126

The Department of Health Education offers two specializations within the health education major and two programs of minimal professional preparation. The two specializations are:

1. Health Education in Secondary Schools. For those planning to teach or supervise health education in the secondary schools.
2. Community Health. For those planning to conduct health education and health promotion activities in non-classroom settings.

The two minimal professional preparations are:

1. Health Education in Secondary Schools. For those certified to teach in Illinois secondary schools who wish minimal preparation to teach health education.
2. Driver Education. For those planning to teach driver education in Illinois secondary schools.

These specializations in general constitute minimal preparation for the positions listed. Consequently, all candidates are strongly urged to complete additional work in the field. The following are recommended courses for the specialization in Health Education in secondary schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE 201	Healthful Living <sup>2</sup>	-	2
GEE	PE Activity <sup>2</sup>	-	2
GE	Electives	3	-
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 114	American Government	-	3
GEB 301	U.S. History	3	-
GEC	English Elective in Humanities (required) <sup>2</sup>	3	-
GED 153	Public Speaking <sup>2</sup>	-	3
GE	Additional course from A, B, or C	3	-
Electives		5	7
		14	16

<sup>1</sup>Refer to the section General Education for the Transfer Student.

<sup>2</sup>The following specific General Education courses listed are required for Teacher's Certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GEC 213, a three semester hour course in non-western or third world cultures from either Humanities or Social Science. GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). General Education science courses must include one laboratory class.

The history major consists of 32 semester hours. From this, six courses must be evenly distributed over either two or three fields chosen from American, European, or "Third World" history offerings; i.e., either two courses in each of the three fields or three courses in each of two of the three fields. Illinois state certification requires a minimum of eight semester hours of American History. The student must also complete a total of three courses at the 400 level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 153	Public Speaking	-	3
GEE	Human Health and Well Being--activity	1	-
GEE 201	Healthful Living	-	2
HIST 205A	History of Western Civilization I	3	-
HIST 205B	History of Western Civilization II	-	3
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB 114	American Government	-	3
GEB 301	U.S. History	-	3
GEC	English Elective in Humanities (select) <sup>2</sup>	3	-
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (Activity)	1	-
HIST 300	Origins of Modern America, 1492-1877	3	3
HIST	Electives	<u>6</u>	<u>4</u>
		<u>16</u>	<u>16</u>

<sup>1</sup> See also the program under the College of Liberal Arts.

<sup>2</sup> Refer to the section General Education for the Transfer Student.

#### History As A Major

The following courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 212, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). General Education science courses must include one laboratory class.



## HISTORY\*

College of Liberal Arts  
(Bachelor of Arts)

Dr. David P. Werlich, Chair  
Telephone - 618-453-4391  
Faner Building, Room 3281

The history major consists of 33 semester hours in addition to GE-B 301 American History. Courses in American History, Western Civilization and European History, and research writing are required. History electives are taken in two fields of History. Four courses at the four hundred level must be completed.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
HIST 205	Western Civilization <sup>2</sup>	3	3
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB 301	Modern America - from 1877 to the Present <sup>2</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	3
FL	Foreign Language <sup>3</sup>	4	4
HIST 300	Origins of Modern America, 1492-1877 <sup>2</sup>	3	-
MATH or CS	Math or Computer Science <sup>4</sup>	-	3
Elective		3	3
		<u>16</u>	<u>16</u>

\*See also the program under the College of Education.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Required by the major.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students. However, four of these hours may be used for GEC credit.

<sup>4</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement.

<sup>5</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

### Third and Fourth Years

The history student has great flexibility in designing a third and fourth year program to meet specific career goals. Minimum requirements demand an additional twenty hours in the major, averaging one or two courses a semester. Additional courses may be devoted to studying some field of history in greater depth, or to developing a strong secondary field or job skill. Examples are computer science, foreign languages, secondary education, or journalism. When possible, transfer students should contact the department prior to their first semester of attendance. Transfer students must earn at least 16 semester hours of history credit at SIUC.

### History As A Major

Formerly, people thought that the only thing someone did with a history major was teach. Although that can be a fine career, the fact is that the majority of history majors do not teach. With a background in history many students enter library and archival work, government and diplomatic service or news and special events reporting. Currently, former SIUC history majors occupy positions in institutions ranging from the CIA and Chase-Manhattan Bank, through Sears Roebuck, British Airways, ABC, and Time-Life. The history major is also an excellent preparation for law school and for graduate work in a wide variety of fields.

**Representative First Job Titles:** Administrative Aide, Legal Assistant, Policy Researcher, Archival Worker, Records Manager, Museum Curator, Library Administrative Assistant, Market Researcher, Needs Analyst, Environmental Historian, Genealogical Researcher, Military Historian, Legislative Research Assistant, Editor or Editorial Assistant, Publishing Sales Representative, Peace Corps Volunteer, Historical Society Director, Newscaster, Budget Analyst, Teacher, Overseas Marketing Assistant, Corporate Archivist.

The Industrial Technology program has as its objective the training of qualified personnel who can develop and direct the production of products and services. There are two specializations: manufacturing technology and mining technology; however, the mining technology specialization is presently inactive.

The Industrial Technology program is designed to prepare management-oriented technical professionals in the economic-enterprise system. Industrial technology professionals will be involved with: 1) the application of significant knowledge of theories, concepts, and principles found in the humanities and the social and behavioral sciences including a thorough grounding in communications skills, 2) the understanding and ability to apply principles and concepts of mathematical and physical sciences, and 3) the application of concepts derived from, and current skills developed in, a variety of technical disciplines including, but not limited to, robotics, processes, computer-aided manufacturing, quality control, motion and time study, plant layout, materials handling, industrial safety, production and inventory control, human relations and computer-aided drafting.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115, 117 or 118	Biological Science	-	3 or 4
GEB	Social Science (select) (Psychology) <sup>1</sup>	3	3
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE 107 or 201 or 236	Human Health and Well Being (select)	2	-
IT 208	Fundamentals of Manufacturing Processes	3	-
MATH 111	Pre-Calculus <sup>2</sup>	5	-
MATH 140	Short Course in Calculus	-	4
		<u>16</u>	<u>16 or 17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select)	3	-
GEC	Humanities (select)	3	3
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (Activity)	-	2
CS 212	Introduction to Business Computing	-	3
IT 105	Technical Sketching	3	-
IT 209	Manufacturing Processes Lab	-	3
PHYS 203a,b &			
PHYS 253a,b	College Physics and Lab <sup>2</sup>	4	4
		<u>16</u>	<u>15</u>

<sup>1</sup> Recommended, not required.

<sup>2</sup> Substitutes for General Education requirements.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in Industrial Technology used in determining the major grade point averages are courses with the prefix IT. For transfer students with an Associate in Applied Science degree in an occupational program, the required courses are dependent on the student's previous program. For each specialization (manufacturing and mining), 30 hours in Industrial Technology courses must be taken at SIUC. A Capstone option may be available in the Industrial Technology major.

#### Industrial Technology (Manufacturing) As A Major

Community college occupational and technical credit (data processing, electronics technology, management, marketing, mechanical technology, metals technology, plastics, transportation, building construction, architectural drafting, to name a few) can be accepted as applicable towards degree requirements. This permits the student to obtain a Bachelor of Science degree in a minimum length of time. For the bachelor's degree, the recommended guidelines are met through the completion of 35 semester hours in the Industrial Technology core, and 48 in the technical specialization.

#### Career Opportunities

Employment opportunities for graduates are excellent which permits a wide range of initial job selectivity and more flexibility for later job promotion or job transfer. Federal statistics show that in the present decade, the need for technologists and related workers will continue. Positions needed in all types of industry are associated with production planning and scheduling, process design, quality control, methods analysis, personnel supervision, material and equipment procurement, facility planning, equipment design, job estimation, technical sales, maintenance supervision, and other manufacturing-related functions.

Representative First Job Titles: Manufacturing Manager, Production Planning and Control, Quality Assurance Specialist, Safety Engineer, Industrial Engineer, First Line Supervisor, Operations Planner, Marketing Support Engineer, Manufacturing Engineer, Salary Administrator, Plant Location Engineer.

**INDUSTRIAL TECHNOLOGY**  
(Mining Technology Specialization)  
College of Engineering and Technology  
(Bachelor of Science)

Nikki Martin, Advisement  
Telephone - 618-453-2261  
Technology Building, Room A120

**Industrial Technology (Mining) As A Major (Inactive)**

The world-wide energy crisis has created a growing demand for coal and other mining products and the need for technologists and engineers in the mining industry is expected to increase dramatically in the next decade. To help meet this growing demand, Southern Illinois University at Carbondale offers courses in mining technology which culminate in a Bachelor of Science degree in Industrial Technology. Industrial Technology is an available Capstone option.

The program is primarily designed to provide a capstone of subject matter for those students who complete programs in mining technology or related areas at community colleges or technical institutes. Courses offered at Southern Illinois University at Carbondale include topics such as coal analysis, coal mining problems, labor relations, materials handling, surveying, motion and time study, quality control, underground and surface mining technology, and others.

The required courses are dependent upon the student's academic background and work experience. In general, the baccalaureate degree can be obtained in two academic years after completing an associate degree in mining technology or a related field at a community college or technical institute.

**Career Opportunities**

Employment opportunities in the mining industry are available in technical management positions for college educated people with mining experience.

**Representative First Job Titles:** Production Planning and Control, Safety Engineer, Motion and Time Study Analyst, First Line Supervisor, Operations Planner, Marketing Support Engineer, Manufacturing Engineer, Salary Administrator, Plant Location Engineer.

The interior design major offered by the College of Technical Careers is an architecturally oriented program accredited by the Foundation for Interior Design Education Research (FIDER). The student receives a comprehensive, interdisciplinary education in preparation for designing and administration positions in the fields of residential, commercial, and contract design. The SIUC Interior Design graduate is qualified to practice professionally in private practice, for interior design/space planning firms, for architectural firms as the interior design or interior design team member, as a facilities planner for corporations, institutions and governmental agencies as well as in industrial design and sales.

In the world of interior design and architecture, the opportunities are more open and exciting than ever before. The vocabulary and pallet of design thinking and execution has never been as expansive as it is today. The need for students versed in the vocabulary of interior design within the context of architecture offers extensive professional opportunities. The program at SIUC is a comprehensive four year program that encourages individuality in thinking. To be a good designer, one has to be a creative thinker and willing to look at alternatives of a possible design solution within the parameters of the project requirements which include the program, the budget and the project schedule. In developing the design solution for the client, the student is encouraged to solve the problems creatively. Once the ideas are conceived, it is very important to communicate this information verbally with the selling of one's design concept and graphically, with drawings such as plans, elevations, sections, details, perspectives, axonometric drawings, etc., and illustration such as furniture, lighting, color, materials, and finishes selections. The following is a recommended course of study for undergraduates.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEC 204	Meaning in Visual Arts <sup>1</sup>	-	3
GEC 205	Innovations in Contemporary Environment <sup>1</sup>	3	-
ART 110, 120	Introduction to Drawing I, II <sup>2</sup>	3	3
ID 111	Elements of Interior Design <sup>2</sup>	4	-
ID 112	Principles of Interior Design <sup>2</sup>	-	4
ID 121	Basic Interior Design-Drawing I <sup>2</sup>	3	-
ID 122	Basic Interior Design-Drawing II <sup>2</sup>	-	3
		<u>16</u>	<u>16</u>
<u>Second Year*</u>		<u>Fall</u>	<u>Spring</u>
GED 107	Intermediate Algebra <sup>1</sup>	-	3
GED 153	Public Communications <sup>1</sup>	3	-
GEE 107 or 201			
or 236	Human Health and Well Being (select) <sup>1</sup>	2	-
GEE	Human Health and Well Being (Activity) <sup>1</sup>	-	2
VES 335	Basic Textiles <sup>2</sup>	2	-
ID 271	Interior Construction I <sup>2</sup>	3	-
ID 251	Presentation, media, and Technique <sup>2</sup>	3	-
ID 274	Materials and Specifications <sup>2</sup>	-	3
ID 272	Interior Construction II <sup>2</sup>	-	3
ID 231, 232	History of Interior Design and		
	Architecture I & II <sup>2</sup>	3	3
ID 252	Interior Design Programming I <sup>2</sup>	-	3
		<u>16</u>	<u>17</u>

<sup>1</sup>Required General Education courses for interior design majors.

<sup>2</sup>These courses are required for all interior design majors. For specific information regarding the acceptability of a major requirement from another institution, you may contact the ID coordinator. A portfolio of work must be presented and a proficiency exam successfully completed for transfer credit.

\*Transfer students should concentrate on General Education course completion since major courses should be taken at SIUC. Because of required sequences of laboratory/studio classes in interior design, the community college transfer student who has completed an associate degree will require three years additional study to complete the baccalaureate degree.

### Third and Fourth Years

Education during the third and fourth years consists of design studios and selected courses in advanced interior design and architecture. Special emphasis is given toward departmental requirements and remaining General Education requirements. Third and fourth year interior design courses include ID 351, 371, 372, 432, 451, 452, 471; 3 hours of professional electives; and ID studios 391, 392, 491 and 492.



## JOURNALISM

(News Editorial)

(Advertising)

College of Communications and Fine Arts

(Bachelor of Science)

Walter B. Jaehnig, Director

Telephone - 618-536-3361

Communications Building-North Wing

Journalism courses are designed to combine rigorous grounding in liberal arts studies with professional preparation for careers in the media industries. Courses in the theory and practice of journalism open career opportunities in news-editorial and advertising positions on newspapers, magazines, industrial publications and other news media; in persuasive uses of communications in advertising and public relations; and in media research work.

Undergraduates are urged to enter the School of Journalism as freshmen to obtain the advantage of Journalism Advisement. Successful completion of a language skills exam and proficiency in typing are required (30 words per minute) to enter the first writing course: JRNL 309 or JRNL 310.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Studies (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152, 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
GEA/B/C	Additional required course	3	-
JRNL 300	Mass Media in Modern Society	-	3
Minor		-	3
Electives		3	3
		<u>14</u>	<u>15</u>

<sup>1</sup>See section on General Education for the Transfer Student.

### Journalism As A Major

In addition to the General Education courses, the academic requirements for a Bachelor of Science degree in Journalism include 30-36 hours in journalism coursework as approved by the School, 26-29 hours of upperclass electives outside the area of journalism, and 15 hours in a minor area approved by the School.

Students at community colleges are encouraged to complete General Education courses and earn electives in areas of interest. It is required that students earn credit for courses in Journalism skills at SIUC.

The School of Journalism is accredited by the professional accrediting agency, the Accrediting Council on Education in Journalism and Mass Communications.

The advertising specialization is a broad, yet intensive selection of specialized courses preparing the student to enter a wide variety of fields including sales, copy writing, production, administration, retailing, and agency work.

The news-editorial specialization provides strong training in writing, reporting and editing with a wide range of electives that introduce students to the variety of positions available in the news industry.

Graduate degrees are available.

Representative First Job Titles: Advertising Agency Account Executive, Advertising Copywriter, Advertising Layout Artist, Advertising Production Director, Advertising Salesperson, Assignment Editor, Cable Communication Coordinator, Copy Editor, Editor, Feature Writer, Graphic Designer, Magazine Production and Design Specialist, Magazine Writer, Media Account Executive, Media Planner, Media Researcher, News Editor, Photographer, Newsletter Editor, Photo Editor, Public Affairs Reporter, Public Information Specialist, Public Relations Representative, Public Opinion Researcher, Reporter, Retail Advertising Director, Sports Reporter, Telecommunications Consultant.

LANGUAGE ARTS (ENGLISH AND READING)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Billy Dixon, Chair  
Telephone - 618-453-2239  
Wham Building, Room 327

A major in language arts (English and reading) is offered through the Department of Curriculum, Instruction and Media. The program is designed to meet the needs of students who wish to teach English language arts (including reading) at the junior/middle school level or who wish to teach high school students whose language skills are not up to high school level. The graduate of this program will be qualified to work with the language skills development which is crucial during early and middle adolescence.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB 114	American Government	-	3
GEC 122	Appreciation of Literature	3	-
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GED 107	Intermediate Algebra	-	3
GED 153	Public Speaking <sup>2</sup>	3	-
GEE 201	Healthful Living <sup>2</sup>	-	2
GEE	Human Health & Well Being-activity (select) <sup>1,2</sup>	2	-
Electives		<u>2</u>	<u>5</u>
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 202	Introduction to Psychology <sup>2</sup>	-	3
GEB 301	U.S. History	3	-
GEC 200	Oral Interpretation of Literature <sup>3</sup>	3	-
Electives		<u>6</u>	<u>6</u>
		15	12

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> The following specific General Education courses are required for teacher certification (these courses may be completed during the freshman and sophomore years): GEB 114, Introduction to American Government and Politics; GEB 301, U.S. History; GEB 202, Introduction to Psychology; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). General Education science courses must include one laboratory class.

<sup>3</sup> Required for major.

The challenge put to law enforcement education is its ability to apply theoretical aspects of law, criminal behavior and policing to real life situations. The faculty of the law enforcement program meet this challenge by drawing upon their collective work experience in law enforcement, corrections and private security to present instructional material and extra-curricular events for students that effectively bridges the gap between the classroom and the real world. Today law enforcement officers must prepare themselves through their educational experiences and training to respond to a variety of situations they may confront during the course of their duties.

Classroom experiences aimed at developing good human relations and communications skills in order to deal with people effectively and to be able to record and communicate facts accurately are important. Good decision making skills are also necessary for police to be able to think logically and quickly when called upon to do so.

The law enforcement program in conjunction with our campus student organization, International Association for Professional Law Enforcement, sponsors various events during the year to introduce students to a variety of policing and private security issues such as emergency driving techniques, corrections seminars, crime scene investigation and institutional security. The law enforcement program regularly sponsors guest speakers representing a cross-section of municipal, county, state and Federal law enforcement and corrections agencies and proprietary security.

Students can readily receive their degree from this program in two years. Students who want to continue their law enforcement education at SIUC may do so by working toward a bachelor of science degree with all course credits being transferred.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Elective	3	-
GEA	Elective	-	3
GEB 108	Sociological Perspective	3	-
GEB 114	American Government and Politics	-	3
GEC	Elective	-	3
GED 101	English Composition I	3	-
GED 102	English Composition II	-	3
LE 103	Introduction to Criminal Justice	3	-
LE 105	Criminal Behavior	3	-
LE 218	Introduction to Corrections	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	3	-
GEC	Elective	-	3
GED 153	Public Speaking	3	-
LE 108	Supervision for Criminal Justice Personnel	3	-
LE 115	Interpersonal Relations	3	-
LE 203	Elective	3	-
LE 205	Investigations	-	3
LE 209	Criminal Law I	3	-
LE 210	Criminal Law II	-	3
LE 221	Police Administration	-	3
LE 271	Security Survey: Loss Prevention Appl.	-	3
LE 395	Student Internship	-	9
		<u>18</u>	<u>24</u>

During the fourth semester of the program (or during the summer), students will serve an internship in which they work under supervision of a criminal justice/private security agency in Illinois.

Provision is made in the program to accomodate working police officers who wish to attend part-time as well as transfer studetns.

A minimum of 63 credit hours is required for this program.

Representative First Job Titles: Police Officer, Detective, State Police Officer, Correctional Officer, Private Security Officer, Deputy Sheriff.

The undergraduate major in Linguistics gives you a solid introduction to the nature of language as a human activity. Linguistics deal with issues such as: How much of language is learned and how much is determined by the innate structure of the human mind? How and why do languages change? How and why do people talk differently in different parts of the country? Our department also specializes in applied linguistics which deals with the teaching of English as a Second Language. In addition, the methodology of linguistics has been adopted by fields as diverse as anthropology, law, psychology, and computer science, where linguists contribute to the design of speech synthesizers, computer speech understanding systems, and natural language processing.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
FL	Foreign Language <sup>2</sup>	4	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED	Speech (select) <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
FL	Foreign Language Second Year <sup>2</sup>	4	4
MATH or CS	Math or Computer Science <sup>4</sup>	-	3
Electives <sup>3</sup>		3	-
		<u>15</u>	<u>16</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, see the section, General Education for the Transfer Student.

<sup>2</sup>There is a foreign language requirement for native speakers of English: 1) one year of an uncommon or non-Western language or 2) two years of any foreign language. If the language in (2) were uncommon or non-Western, satisfying (2) would automatically satisfy (1). Students planning graduate study in linguistics should take three years of foreign language study. Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>3</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to fulfill Liberal Arts requirements (see College of Liberal Arts section).

<sup>4</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

Representative First Job Titles: ESL Teacher, Computer Scientist, Industrial Psychologist, Archival Worker, Market Research Analyst, Legal Consultant.



## MANAGEMENT

College of Business and Administration (COBA)  
(Bachelor of Science)

Chairperson  
Telephone 618-453-3307  
Henry J. Rehn Hall, Room 215

Management is the process of setting overall direction and objectives for an organization, and determining policies for the efficient acquisition and utilization of resources and capabilities. It also includes designing the structure to support efficiency and innovation, staffing and setting up a program for developing and motivating personnel. Further, management is the process of exerting leadership to achieve unity, consistency and continuous improvement in performance.

The curriculum prepares students through a variety of disciplines and offers valuable knowledge, tools, and techniques that provide a broad exposure to the key function of management. The courses, designed to impart technical, technological, and human resources management skills, prepare students to manage modern organizations successfully. A choice of two specializations within the management major is available to students. They are Management and Entrepreneurship.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	3
GEB	Social Science <sup>1</sup>	3	-
*GEB 202	Introduction to Psychology <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	3	3
*GED 101	English Composition <sup>1</sup>	3	-
*GED 102	English Composition II <sup>1</sup>	-	3
*MATH 139	Finite Mathematics	3	-
*MATH 140	Short Course in Calculus	-	4
		<u>15</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	-	3
*GED 152,153	Public Speaking or Interpersonal Comm. <sup>1</sup>	3	-
*ACCT 220	Financial Accounting	-	3
*ACCT 230	Managerial Accounting	3	-
*CS 212 or	Intro. to Computer Programming <sup>3</sup>		
CIP 229	Computing for Business Admin. <sup>3</sup>	-	3
*ECON 214	Macro Economics <sup>2</sup>	3	-
*ECON 215	Micro Economics <sup>2</sup>	-	3
*FIN 270	Legal & Social Environment of Business <sup>3</sup>	3	-
*MGMT/ECON 208	Economic and Business Statistics	3	-
*MGMT 202	Business Communications	-	3
		<u>15</u>	<u>15</u>

\*Required course for a major in COBA.

<sup>1</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, "General Education for the Transfer Student."

<sup>2</sup> ECON 214 or 215 counts toward GEB credit.

<sup>3</sup> Course will be approved by articulation agreement with each college.

## Third and Fourth Years

As a declared Management major, the student will take upper level business courses which will prepare the student for an exciting career in the Management area. These courses include the remaining Core requirements, and 24 credits in the Management area.

## Management As A Major

Neither minor nor foreign language required.

Graduate degrees available; MBA, Masters in Accountancy (M.Acc.), DBA.

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements.

The Department is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

See College of Business and Administration listing for their retention policy and the 40% rule.

The Society for the Advancement of Management in cooperation with the Department of Management annually sponsors a Career Day to acquaint students with opportunities in business and government.

**Representative First Job Titles:** Budget Administrator, Business Operations Analyst, Benefits Analyst, Community Relations Officer, Employee Relations Officer, Employment Interviewing Officer, Labor Relations Officer, Management Analyst, Manpower Planning Officer, Manpower Resources Education Officer, Organization Planner, Placement Assistant, Public Opinion Polls Officer, Public Relations Officer, Recruiting Officer, Wage-Salary Administrator, Workman's Compensation Officer, Budget Examiner, Claims and Benefits Examiner, Contract Negotiator, Credit Union Examiner, Management Representative, Management Supervisor.

## MARKETING

College of Business and Administration (COBA)  
(Bachelor of Science)

Dr. R. Clifton Andersen  
Telephone 618-453-4341  
Henry J. Rehn Hall, Room 229

Marketing is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives. The program is designed to provide the student with an understanding of the role of marketing in an economic system and in a business organization. Emphasis is upon the development of an analytical approach to the creative solution of marketing problems. Courses have been designed into a variety of sequences aimed at meeting the specific needs and interests of students. These are: 1) general marketing administration, 2) international marketing, 3) industrial marketing, 4) sales administration, 5) promotional administration, 6) physical distribution administration, and 7) retail administration.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science <sup>1</sup>	3	3
GEB	Social Science <sup>1</sup>	3	-
*GEB 202	Introduction to Psychology <sup>1</sup>	-	3
GEC	Humanities <sup>1</sup>	3	3
*GED 101	English Composition <sup>1</sup>	3	-
*GED 102	English Composition II <sup>1</sup>	-	3
*MATH 139	Finite Mathematics	3	-
*MATH 140	Short Course in Calculus	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>			
GEA	Science <sup>1</sup>	-	3
*GED 152, 153	Public Speaking or Interpersonal Comm. <sup>1</sup>	3	-
*ACCT 220	Financial Accounting	3	-
*ACCT 230	Managerial Accounting	-	3
*CS 212 or	Intro. to Computer Programming. <sup>3</sup>		
CIP 229	Computing for Business Admin. <sup>3</sup>		
*ECON 214	Macro Economics <sup>2</sup>	3	-
*ECON 215	Micro Economics <sup>2</sup>	-	3
*FIN 270	Legal & Social Environment of Business <sup>3</sup>	3	-
*MGMT/ECON 208	Economic and Business Statistics	3	-
*MGMT 202	Business Communications	-	3
		<u>15</u>	<u>12</u>

\*Required course for a major in COBA.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, "General Education for the Transfer Student."

<sup>2</sup>ECON 214 or 215 counts toward GEB credit.

<sup>3</sup>Course will be approved by articulation agreement with each college.

### Third and Fourth Years

As a declared Marketing major, the student will take upper level business courses which will prepare the student for an exciting career in the Marketing area. These courses include the remaining Core requirements, and 24 credits in the Marketing area.

### Marketing As A Major

It is strongly recommended that the courses listed above be completed prior to the junior year. Many of these courses are prerequisites to later requirements.

Neither minor nor foreign language required.

Graduate degrees available: MBA, Masters in Accountancy (M.Acc.), DBA.

The Department is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

Flexibility is available due to a limited number of required courses. Emphasis is on developing a program geared to individual students' interests and background.

See College of Business and Administration listing for their retention policy and the 40% rule.

Representative First Job Titles: Marketing Assistant, Retail Manager, Consumer Marketing Area or Territorial Manager, Commercial/Industrial Marketing Representative, Sales Representative Trainee, Marketing Trainee, Market Analyst, Management Trainee, Food Service Sales Representative, Bond Representative, Benefits Analyst, Budget Accountant, Budget Administrator, Business and Economics Statistician, Business Planner, Controller, Management Analyst, Manufacturer's Representative, Market Research Analyst, Sales Manager, Product Manager, Operations Research Analyst, Credit Manager, Customer Services Officer, Public Relations Officer.

A standard college algebra and trigonometry course is available as one course or as separate courses to incoming freshmen to prepare them for a three semester sequence in calculus and analytic geometry. Most mathematics students will take an introductory linear algebra course while completing the calculus. Then they will select junior level courses from those in algebraic structures, analysis, number theory, geometry, differential equations, and probability.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB 114	American Government <sup>3</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	-
GED 101	English Composition <sup>3</sup>	3	-
GED 102	English Composition II <sup>2,3</sup>	-	3
GEE 201	Healthful Living <sup>3</sup>	-	2
MATH 111	Pre-Calculus <sup>4</sup>	5	-
MATH 150	Calculus I	-	4
CS 202	Introduction to Computer Programming	-	3
		<u>17</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB 202	Introduction to Psychology <sup>3</sup>	3	-
GEB 301	U.S. History <sup>3</sup>	-	3
GEC	English Elective in Humanities (select) <sup>2,3</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	3	-
GED 153	Public Speaking <sup>3</sup>	-	3
GEE	P.E. Activity	2	-
MATH 221	Introduction to Linear Algebra	-	3
MATH 250	Calculus II	4	-
MATH 251 or 305	Calculus III or Differential Equations	-	3
		<u>15</u>	<u>15</u>

<sup>1</sup>See also the program under the College of Liberal Arts. The College of Science also offers a Bachelor of Science in Mathematics.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

<sup>3</sup>The following courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; one additional English course (GEC, GED or departmental); Math 111, Pre-Calculus. At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). General Education science courses must include one laboratory class.

<sup>4</sup>Approved substitute for GED Math. Math 111 is not a requirement for the math major. Students may start with Math 150.

#### Mathematics As A Major

Foreign language is not required for the Bachelor of Science degree in Education.

It is recommended that the following courses be completed during the first two years of the student's study: Math 111, 150, 250, 251, 221, Computer Science 202.

For specific major requirements, see the Undergraduate Catalog.

The Bachelor of Arts degree in mathematics is appropriate for those who want to combine mathematics with a minor or second major in computer science, or for those whose interests outside of mathematics tend toward the social sciences, business, psychology, law or the humanities. Students in this program take a secondary concentration of two or three courses in some field in which mathematics is applied, or a minor in some department in the College of Liberal Arts. The mathematical requirements for the Bachelor of Arts and Bachelor of Science degrees are the same.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
CS 202	Introduction to Computer Programming	-	3
MATH 150 & 250	Calculus I and II <sup>2</sup>	4	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
FL	Foreign Language <sup>3</sup>	4	4
MATH 221	Introduction to Linear Algebra	-	3
MATH 251	Calculus III	3	-
MATH or CS	Mathematics or Computer Science Elective	-	3
		<u>16</u>	<u>16</u>

\*See also the programs (B.S.) under the College of Education and the College of Science.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Community college students should complete the calculus sequence at their community college.

<sup>3</sup>The College of Liberal Arts requires one year of a foreign language. One semester of this may be used as GEC humanities credit.

#### Mathematics As A Major

Mathematics is growing and changing. Exciting new problems appear each year, and the variety of career opportunities is constantly increasing. SIUC has the advantages of variety of coursework and highly qualified staff available at a large university, together with smaller classes and more personal attention than many large universities offer. Calculus classes here are taught by experienced professors and average about 30 to 35 students. Most upper division courses have 15 to 20 students. An honors calculus course is available to qualified students.

You and your mathematics faculty advisor will plan your advanced level course program together. One course from each of four areas will introduce you to the main branches of mathematics. Your selection of at least three additional courses will depend on your particular interests, which may be mathematical research, teaching, or applications in business, science and technology, statistics, actuarial science, or computer science. Mathematics can also be a good major for pre-medical and pre-law students.

For many mathematics students, we recommend a minor in computer science or even a double major in mathematics and computer science.

A full range of graduate programs is available in mathematics and related fields.

Representative First Job Titles: Systems Analyst, Actuarial Trainee, Mathematician, Operations Research Analyst, Statistician, Computing Analyst, Research Mathematician, Mathematical Programmer, Technical Sales Representative.



The Bachelor of Science degree in mathematics opens the door to a surprising variety of interesting careers in industry, business, and the academic world.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GEE	Human Health and Well Being (Activity) <sup>2</sup>	1	1
Dept. Level	Biological Sciences <sup>1</sup>	3	3
CS 202	Computer Programming	-	3
MATH 150	Calculus I	4	-
MATH 250	Calculus II	-	4
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) <sup>2</sup>	-	2
Dept. Level	Physical Sciences <sup>1</sup>	3	3
FL	Foreign Language <sup>3</sup>	4	4
MATH 221	Linear Algebra	-	3
MATH 251	Calculus III	3	-
		<u>16</u>	<u>15</u>

\*See also the programs (B.A. and B.S.) under College of Liberal Arts and College of Education.

<sup>1</sup>The College of Science requires six semester hours in departmental (not GEA) biological sciences, and six semester hours in departmental (not GEA) physical sciences. These courses also satisfy the science component of the General Education requirements (see approved substitution list).

<sup>2</sup>See section on General Education for the Transfer Student.

<sup>3</sup>The College of Science requires one year (8 semester hours) of foreign language. French, German, or Russian is recommended. One semester of foreign language will substitute as GEC humanities credit.

#### Mathematics As A Major

Mathematics is growing and changing. Many varied career opportunities are now available to mathematics majors. SIUC offers the student a variety of coursework and highly qualified staff available at a large university, together with smaller classes and more personal attention than many large universities offer. Calculus classes here are taught by experienced professors and average about 30 to 35 students. Most upper division courses have 15 to 20 students.

The student and the student's mathematics faculty advisor will plan the student's advanced level course program together. One course from each of four core areas will introduce the student to the main branches of mathematics. Selection of at least three additional courses will depend on the student's particular interests which may be mathematical research, teaching, applications in business or science and technology, statistics, actuarial science, or computer science. Mathematics is also a good major for pre-medical and pre-law students.

For many mathematics students, a minor in computer science or a double major in mathematics and computer science is a good choice.

A full range of graduate programs is available in mathematics and related fields.

Representative First Job Titles: Systems Analyst, Actuarial Trainee, Cryptographer, Mathematician, Operations Research Analyst, Statistician, Computing Analyst, Technical Sales Representative, Marketing Analyst.

See also: Civil Engineering, Electrical Engineering, and Mining Engineering.

Mechanical Engineering is a broad-based engineering discipline. Mathematics, basic science, economics, and design principles are utilized to produce products and systems for the benefit of mankind.

The four year undergraduate program provides a balance of experience in thermal and mechanical systems and the opportunity for specialized design courses.

First Year		Fall	Spring
ENGR 102	Engineering Graphics	2	-
GEB	Social Sciences (select) <sup>1,2</sup>	-	3
GEC	Humanities (select) <sup>1,2</sup>	3	3
GED 101	English Composition <sup>1,2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
CHEM 222a,c	Intro. to Chemical Principles and Lab <sup>3</sup>	4	3
MATH 150, 250	Calculus I & II <sup>3</sup>	4	4
		16	18
Second Year		Fall	Spring
ENGR 222	Computational Methods for Engineers	2	-
ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
GEA 115	Introductory Biology <sup>1,2,4</sup>	3	-
GEB	Social Studies (select) <sup>1,2</sup>	-	3
GEC	Humanities (select) <sup>1,2</sup>	-	3
GED 153	Public Speaking <sup>1,2</sup>	3	-
MATH 251, 305	Calculus III and Differential Equations I	3	3
PHYS 205a,b	University Physics		
PHYS 255a,b	and Lab <sup>3</sup>	4	4
		17	16

<sup>1</sup> See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved general education courses.

<sup>2</sup> Due to accreditation standards, students transferring with a baccalaureate-oriented associate degree will need 16 sem. hours of Social Sciences and Humanities; eight or nine sem. hours of oral and written communications, and 18 sem. hours of basic science before graduation from SIUC. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 sem. hours of Social Sciences and Humanities from a community college will be counted toward this 16 hour requirement.

<sup>3</sup> Substitutes for General Education requirements.

<sup>4</sup> This course is not required for students transferring with a baccalaureate-oriented associate degree and 18 sem. hours of Chemistry and Physics.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in Engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the college's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include six sem. hours of English Composition; three sem. hours of Speech, eight sem. hours of University Physics, seven sem. hours of Chemistry; 11-14 sem. hours of Math, including Calculus; two sem. hours of Analytical Mechanics (Statics); and three sem. hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

**Representative First Job Titles:** Mechanical Engineer, Plant Engineer, Product Development and Design Engineer, Product Application and Test Engineer, Sales, Patent Engineer, Sales Engineer, Quality Assurance Specialist.

Microbiology deals with the study of micro-organisms including bacteria, viruses, protozoa, fungi, and yeasts, examining their morphology, classification, growth, reproduction, heredity, biochemistry, ecology, and their relationship to other living organisms including man. The following program of study prepares one for graduate study leading to advanced degrees or for laboratory or teaching positions after the bachelor's degree.

Opportunities for specialized training in microbial physiology, virology, immunology, genetics, biochemistry and industrial processes are available.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115	Biology	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (Activity)	1	1
FL	Foreign Language <sup>1,3</sup>	4	4
CHEM 222a,b	Introduction to Chemical Principles <sup>1,3</sup>	4	4
MATH 108 & 109	College Algebra and Trigonometry		
or 111 or 140	or Calculus <sup>1,3</sup>	3	3
		<u>15</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEE 107 or 201 or 236	Human Health and Well Being (select)	-	2
BIOL	Biology (select) <sup>1,2</sup>	-	3
BIOL 305	Genetics-Classical & Molecular	3	-
CHEM 344, 345, and 346, 347	Organic Chemistry and Lab	6	5
MICR 301	Principles of Microbiology	4	-
MICR 302	Molecular Biology	-	3
PHYS 203a,b and 253a,b	College Physics and Lab	4	4
		<u>17</u>	<u>17</u>

<sup>1</sup> Approved substitutes for General Education.

<sup>2</sup> Any one of Biology 306, 307, 308, 309.

<sup>3</sup> Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

### Third and Fourth Years

The student fulfills remaining General Education requirements, and chooses electives in microbiology to match his or her professional interests. The Department of Microbiology offers specialty courses in microbial genetics, microbial physiology/biochemistry, medical microbiology, immunology, virology and bacterial diversity.

### Microbiology As A Major

Opportunities for microbiologists with four years of university training are numerous and varied. Careers are available in such fields as 1) pharmaceutical industries involving the discovery and production of antibiotics and other therapeutic drugs, and the discovery, production and design of vaccines possibly effective even against cancer; 2) the food and beverage industries in areas such as research and development, microbial fermentations, and quality control; 3) clinical, veterinary and public health and university laboratories; 4) the exciting field of recombinant DNA and other areas of biotechnology based on microbiology. Biotechnology has applications in industry and pure research to make vaccines, hormones, and alter the genetic constitution of plants and animals. Teaching and research opportunities exist at the university level for the holder of the doctoral degree. A microbiologist planning a teaching career at the secondary school level should acquire a broad background in general biology. In addition to the academic career, high salaried positions are available in many local, state and federal agencies as well as in industry for the microbiologist with a good capacity for pure or applied research.

Representative First Job Titles: Laboratory Technician, Biostatistician, Embryologist, Genetics Research Technician, Serologist, Histologist, Cytologist, Parasitologist, Virologist, Microbiology Researcher, Wine Chemist, Fishery Bacteriologist, Quality Control Specialist, Biological Photography Staff, Manufacturer's Representative, Public Health Officer, Biology Teacher.



See also: Civil Engineering, Electrical Engineering, and Mechanical Engineering.

Mining Engineers engage in planning, design, development and management of surface and underground mining operations for exploitation of the earth's mineral deposits. The mining engineering program prepares graduates to meet the challenges of the mining industry. Coursework in the program includes such areas as surface and underground mining systems, mine ventilation, ground control and rock mechanics, mineral and coal processing, material handling systems, mineral economics, mine health and safety engineering; operations research, and computer-aided mine design. Facilities include modern, well-equipped rock mechanics, mine ventilation and mineral processing laboratories.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
ENGR 102	Engineering Graphics	2	-
GEB	Social Sciences (select) <sup>1,2</sup>	-	3
GEC	Humanities (select) <sup>1,2</sup>	3	3
GED 101	English Composition <sup>1,2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
CHEM 222a,c	Intro. to Chemical Principles and Lab <sup>3</sup>	4	3
MATH 150, 250	Calculus I & II <sup>3</sup>	4	4
		16	18
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
ENGR 222	Computational Methods for Engineers	2	-
ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
GEA 115	Introductory Biology <sup>1,2,4</sup>	-	3
GEB	Social Studies (select) <sup>1,2</sup>	-	3
GED 153	Public Speaking <sup>1,2</sup>	3	-
GEOL 220	Physical Geology	3	-
MATH 251, 305	Calculus III and Differential Equations I	3	3
PHYS 205a,b	University Physics		
PHYS 255a,b	and Lab <sup>3</sup>	4	4
		17	16

<sup>1</sup> See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses. It is recommended that such students contact the College of Engineering and Technology Advisement Office for information on approved general education courses.

<sup>2</sup> Due to accreditation standards, students transferring with a baccalaureate-oriented associate degree will need 16 sem. hours of Social Sciences and Humanities; eight or nine sem. hours of oral and written communications, and 18 sem. hours of basic science before graduation from SIUC. A 300 level Social Science or Humanities course must be taken at SIUC or at another senior level institution. This 300 level course must build on a discipline already completed. Because of this accreditation requirement, in most cases, a maximum of 13 sem. hours of Social Sciences and Humanities from a community college will be counted toward this 16 hour requirement.

<sup>3</sup> Substitutes for General Education requirements.

<sup>4</sup> This course is not required for students transferring with a baccalaureate-oriented associate degree and 18 sem. hours of Chemistry and Physics.

To remain in the College, students are subject to the requirement of maintaining a 2.00 accumulative grade point average in all of their major courses. Major courses in engineering used in determining the major grade point averages are courses with the prefix ENGR, CE, EE, EM, ME, and MNGE. This is part of the college's Retention Policy.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, mathematics, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include six sem. hours of English Composition; three sem. hours of Speech, eight sem. hours of University Physics, seven sem. hours of Chemistry; 11-14 sem. hours of Math, including Calculus; two sem. hours of Analytical Mechanics (Statics); and three sem. hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

#### Career and Employment Opportunities

Mining engineers may work in an engineering or management position for mining and exploration and construction companies, equipment manufacturing concerns, research organizations or government agencies. The coursework also provides strong preparation for further study at the graduate level. The average starting salary offered to our graduates compares favorably with national trends.



MORTUARY SCIENCE AND FUNERAL SERVICE  
College of Technical Careers  
(Associate in Applied Science)

George Poston  
Program Coordinator  
Telephone - 618-453-7214  
Technical Careers Building  
Room 18C

SIUC offers the only university affiliated Mortuary Science and Funeral Service program in the state of Illinois.

Licensing and qualification requirements vary from state to state since laws governing the profession are enacted at a state level. Licensure in one state does not assume automatic qualification in another but many state boards have some reciprocal agreements with other states.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115	Biology	3	-
GEB 202	Introduction to Psychology	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 153	Public Speaking	-	3
MSFS 101	Orientation to Funeral Service	3	-
MSFS 102	Restorative Art	4	-
MSFS 108	Funeral Service Psychology	-	3
SCR 208	Applied Law	-	3
TC 120	Fiscal Aspects of Technical Careers	-	3
Elective	Health Education	-	2
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 106	Chemistry for Non-Science Majors	3	-
MSFS 225a,b	Embaling Theory and Practice	4	4
MSFS 230	Mortuary Anatomy	4	-
MSFS 250a,b	Mortuary Management	4	4
MSFS 256	Introductory Microbiology	-	4
MSFS 257	Pathology	-	4
		<u>15</u>	<u>16</u>
		<u>Summer</u>	
MSFS 375a	Internship--Management	4	
MSFS 375b	Internship--Embaling	4	
MSFS 380	Funeral Service Seminar	2	
		<u>10</u>	

Mortuary Science As A Major

This program is designed to accommodate high school graduates as well as those who have first attended another college or university. High school graduates will complete the courses as listed above. Students transferring from other schools may receive transfer credits for general education courses. Many transfer students are able to complete the associate degree in a minimum of twelve months.

Applicants who desire to major in Mortuary Science and Funeral Service will be admitted to SIUC in the category Pre-Mortuary Science and Funeral Service. The applicant will be provided additional program application material.

The program is accredited by the American Board of Funeral Service Education. Graduates are eligible to write the National Board examination as given by the Conference of Funeral Service Examining Boards.

A unique feature of the curriculum is the summer internship. This ten week course, MSFS 375, takes place at a funeral home where the student is assigned on a full time basis. The purpose is to provide experience in the practical aspects of the profession. Following the internship, students return to campus for a seminar, MSFS 380, followed by writing the National Board examination and graduation.

Students have their own professional fraternity, Sigma Phi Sigma, with programs and activities planned by the members.

Some students elect to continue their education beyond the associate degree and work toward a baccalaureate degree.

Representative First Job Titles: Apprentice Funeral Director, Apprentice Embalmer.

## MUSIC<sup>1</sup>

College of Communications and Fine Arts  
(Bachelor of Arts)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

The Bachelor of Arts program is designed to provide a basis for various part time and musically related careers such as church music, popular music, private applied teaching, and occupations within the field of music industry and communications. Ordinarily, additional study, comparable to the Bachelor of Music curriculums offered in the College of Communications and Fine Arts, is necessary to qualify for a full time professional career in teaching, conducting, composition, or research.

The music major degree program is established in accordance with the published regulations of the National Association of Schools of Music, of which the School of Music is a member.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101, 102	English Composition; English Composition II	3	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	1	1
*MUS	Major Ensemble (see below)	1	1
*MUS 102	Survey of Music Literature	-	2
*MUS 140	Applied Music (principal instrument)	2	2
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB	Social Studies (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	3	3
GED 152	Interpersonal Communication	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	1	1
*MUS	Major Ensemble (see below)	1	1
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 240	Applied Music (principal instrument)	2	2
		<u>14</u>	<u>17</u>

\*Required courses for a major in Music.

<sup>1</sup>See also Music Education in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GEC requirements.

### Third and Fourth Years

After completion of the first year core, each student's program is planned according to individual needs and goals. The Bachelor of Arts in Music requires a total of 40 semester hours of music courses.

### Music As A Major

Credits in one's principal applied field are based on 1) private lessons with a member of the attendance each term at seven campus recitals or concerts, approved for the purposes by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

**Representative First Job Titles:** Church Organist, Folk Music Specialist, Assistant to Music Director, Popular Music Specialist, Dance Band Musician.

**MUSIC<sup>1</sup>**  
(Instrumental Performance)  
College of Communications and Fine Arts  
(Bachelor of Music)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as an instrumentalist and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for four credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101, 102	English Composition; English Composition II	3	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	-
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030a,b	Piano Class <sup>3</sup>	1	1
*MUS	Major Ensemble (see below)	1	1
*MUS 102	Survey of Music Literature	2	-
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEB	Social Sciences (select) <sup>2</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	1	1
*MUS 240	Applied Music (principal instrument)	4	4
*MUS 030c,d	Class Piano <sup>3</sup>	1	1
*MUS	Music Ensemble (see below)	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
		<u>14</u>	<u>15</u>

\*Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GEC requirements.

<sup>3</sup>Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

Music As A Major

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Classical Music Specialist, Symphony Orchestra Artist, Opera Artist, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Brass Instruments Specialist, Woodwinds Instruments Specialist, Church Organist.

**MUSIC<sup>1</sup>**  
 (Jazz Performance)  
 College of Communications and Fine Arts  
 (Bachelor of Music)

Dr. Robert Roubos, Director  
 Telephone - 618-536-7505  
 Altgeld Hall, Room 105

Charles Fligel, Advisor  
 Telephone - 618-536-7505  
 Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as an instrumentalist and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for four credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition	3	-
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030	Piano Class <sup>3</sup>	1	1
*MUS	Ensemble	1	1
*MUS 102	Survey of Music Literature	2	-
*MUS 104a	Aural Skills	1	1
*MUS 105a	Basic Harmony	3	3
		14	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEB	Social Sciences (select) <sup>2</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	3	-
*MUS 240	Applied Music (principal instrumental)	4	4
*MUS 030c	Piano Class <sup>2</sup>	1	-
*MUS 030d	Piano Class (Jazz section) <sup>3</sup>	-	1
*MUS	Ensemble	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Counterpoint	-	2
*MUS 331	Jazz Improvisation	1	1
		17	15

\*Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GEC requirements.

<sup>3</sup>Students with piano backgrounds may waiver part or all of the piano class requirement, as justified by a proficiency examination.

#### Music As A Major

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Jazz Music Specialist, Jazz Band Artist, Jazz Music Conductor, Jazz Soloist, Studio Musician, Private Jazz Instructor, Jazz Composer and/or Arranger, Jazz Historian, and Jazz Theorist.



## MUSIC<sup>1</sup>

(Keyboard Performance)  
College of Communications and Fine Arts  
(Bachelor of Music)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a keyboard performer and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for four credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB	Social Studies (select) <sup>2</sup>	-	3
GED 101, 102	English Composition; English Composition II	3	3
*MUS	Major Ensemble (see below)	1	1
*MUS 102	Survey of Music Literature	2	-
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	1
*MUS 140	Applied Music (principal instrument)	2	2
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 107	Intermediate Algebra	-	3
GED 152	Interpersonal Communications	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	-	2
*MUS	Music Ensemble (see below)	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
*MUS 240	Applied Music (principal instrument)	4	4
		<u>15</u>	<u>15</u>

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GEC requirements.

### Music As A Major

Credits in one's principal applied field are based on 1) private lessons with a member of the faculty, 2) weekly participation in Studio Hour (Mondays at 10:00 a.m.), and 3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Classical Music Specialist, Symphony Orchestra Artist, Solo Performer, Opera Artist, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Woodwinds Instruments Specialist, Church Organist.

## MUSIC

(Music Business)  
College of Communications and Fine Arts  
(Bachelor of Arts)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

One of the newer options in the School of Music is the Music Business specialization. This program is designed for students planning careers in business and aspects of the music profession other than performance, education, composition, or history-literature. Beginning with the second year, students take courses not only in music but also in accounting, administrative sciences, economics, finance, and marketing.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 101	Conceptual Insights into Modern Communications Systems <sup>3</sup>	3	-
GED 101, 102	English Composition; English Composition II	3	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	1
ECON 215	Introduction to Microeconomics <sup>1</sup>	-	3
MUS	Major Ensemble <sup>4</sup>	1	1
MUS 040-240	Applied Music (Principal instrument) <sup>4</sup>	1	1
MUS 102	Survey of Music Literature <sup>1,4</sup>	2	1
MUS 104 a,b	Aural Skills <sup>4</sup>	1	1
MUS 105 a,b	Basic Harmony <sup>1,4</sup>	3	3
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB	Social Science (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	3	3
GED 152 or 153	Interpersonal Communications or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	1	-
ACCT 220, 230	Principles of Accounting I, II <sup>4</sup>	3	3
MUS 030	Piano Class <sup>4</sup>	1	1
MUS 031	Voice Class	1	-
MUS 032, 033, 032, 035	String, Woodwind, Bass and Percussion Techniques	2	2
MUS 040-240	Applied Music (principal instrument)	1	1
MUS	Major Ensemble <sup>4</sup>	1	1
		<u>16</u>	<u>17</u>

<sup>1</sup> Approved substitutes for General Education.

<sup>2</sup> See Section on General Education for transfer students.

<sup>3</sup> Recommended but not required by major.

<sup>4</sup> Required by music major, music business specialization. Students who plan to transfer from community colleges with an associate's degree should complete comparable music courses in order to avoid spending extra time pursuing the bachelor's degree.

### Music As A Major

Credits in one's principal applied field are based on 1) private lessons with a member of the faculty, 2) weekly participations in Studio Hour (Mondays at 10:00 a.m.), and 3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011 Marching Salukis, 013 Symphonic Band, 014 Concert Wind Ensemble, 017 Symphony, 020 University Chorus, 021 SIU Chorale, or 022 University Choir.

Representative First Job Titles: Music Marketing Specialist, Audio-Marketing, Management Trainee for Recording Studio, Fund Raiser for Opera Company, Instrument Sales, Management Agency Specialist.

## MUSIC<sup>1</sup>

(Music Theory-Composition)  
College of Communications and Fine Arts  
(Bachelor of Music)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a musical composer and/or college teacher of music theory-composition.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101, 102	English Composition; English Composition II	3	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	-
*MUS	Major Ensemble (see below)	1	1
*MUS 030a,b	Class Piano <sup>3</sup>	1	1
*MUS 102	Survey of Music Literature	2	-
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 140	Applied Music (principal instrument)	2	2
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	1	1
*MUS 030c,d	Class Piano <sup>3</sup>	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
*MUS 240	Applied Music (principal instrument)	2	2
*MUS 280	Beginning Composition	2	2
		<u>16</u>	<u>14</u>

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup> Music Education is also available in the College of Education.

<sup>2</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup> Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

### Music As A Major

Credits in one's principal applied field are based on 1) private lessons with a member of the faculty, 2) weekly participation in Studio Hour (Mondays at 10:00 a.m.), and 3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Classical Music Specialist, Composer, Arranger, Music Theory Specialist.

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a pianist and/or applied piano teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for 4 credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB	Social Sciences (select) <sup>2</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
*MUS 140Q	Applied Piano	2	2
*MUS 030a,b	Seminar	1	1
*MUS	Ensemble	1	1
*MUS 102	Survey of Music Literature	2	-
*MUS 104a	Aural Skills	1	1
*MUS 105a	Basic Harmony	3	3
		<hr/> 16	<hr/> 17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GED 107	Intermediate Algebra	3	-
GED 152	Speech	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	-	2
*MUS 240	Applied Music	4	4
*MUS 030c,d	Seminar	1	1
*MUS 040Q	Keyboard Musicianship	-	2
*MUS	Ensemble	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Counterpoint	-	2
		<hr/> 16	<hr/> 15

\*Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 will count toward GEC requirements.

#### Music As A Major

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Private Applied Piano Instructor, Classroom Piano Teacher, Piano Soloist, Piano Accompanist, Symphony Orchestra Artist, Composer/Arranger, and Church Pianist.



MUSIC<sup>1</sup>  
(Vocal Performance)  
College of Communications and Fine Arts  
(Bachelor of Music)

Dr. Robert Roubos, Director  
Telephone - 618-536-7505  
Altgeld Hall, Room 105

Charles Fligel, Advisor  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a singer and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter enroll for and receive two half-hour lessons per week for four credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101, 102	English Composition; English Composition II	3	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	1
*MUS	Major Ensemble (see below)	1	1
*MUS 030a,b	Piano Class <sup>3</sup>	1	1
*MUS 102	Survey of Music Literature	2	-
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 140P	Applied Music (voice)	2	2
		<u>15</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	1	-
*FOR LANG	French or German	4	4
*MUS	Major Ensemble (see below)	1	1
*MUS 030c,d	Piano Class <sup>3</sup>	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
*MUS 240P	Applied Music (voice)	4	4
		<u>15</u>	<u>15</u>

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music Education is also available in the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student. Music 102-2 and the second semester of foreign language count toward GEC requirements.

<sup>3</sup>Students with piano backgrounds may waive part or all of the piano class requirement, as justified by a proficiency examination.

#### Music As A Major

Credits in one's principal applied field are based on 1) private lessons with a member of the faculty, 2) weekly participation in Studio Hour (Mondays at 10:00 a.m.), and 3) recorded attendance each term at sever campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Popular Music Specialist, Classical Music Specialist, Television Artist, Opera Arts, Folk Music Specialist, Choral Group Artist, Assistant to Music Director, Church Choirmaster, Music Librarian.

## MUSIC EDUCATION<sup>1</sup>

(Music Education - Instrumental or Choral)  
College of Education  
(Bachelor of Science)  
College of Communications and Fine Arts  
(Bachelor of Music)

Charles Fligel, Advisor  
School of Music  
Telephone - 618-536-7505  
Altgeld Hall, Room 101

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB 202	Social Science	-	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GEE 201	Healthful Living	2	-
*MUS 030a,b	Piano Class <sup>3</sup>	1	1
*MUS 102	Survey of Music Literature	-	2
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 140	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 114	American Government	3	-
GEB 301	U.S. History	3	-
GEC	English Elective in Humanities	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being - Activity	2	-
*MUS 034, 035	Brass Class; WW Class (for Instrumental Music)	1	2
or MUS 030a,b	Piano Class <sup>3</sup> (for choral Music Education)	(1)	(1)
*MUS 204 & 205	Advanced Aural Skills	4	-
*MUS 207	Counterpoint	-	2
*MUS 240	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
		<u>16 (17)</u>	<u>16 (17)</u>

\*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of Music well in advance to determine the comparability of music classes and to avoid spending additional time completing the bachelor's degree.

<sup>1</sup>Music education curriculums are available in both the College of Communications and Fine Arts and the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup>Students with piano background may waive part or all of the piano class requirement, as justified by a proficiency examination.

The following courses are required for Teacher Certification: GEB 202, Introduction to Psychology; GEB 114; GEB 301; GED 101; GED 102; GED Speech; GEE 201; plus one additional English course from GEC, GED or departmental. At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

### Music As A Major

Students interested in this specialization should become aware of the requirements for entering the Teacher Education Program (explained in another section of this text).

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011, Marching Salukis; Music 013, Symphonic Band; 014, Concert Wind Ensemble; 017, Symphony; 020, University Chorus; 021, SIU Chorale; or 022, University Choir.

## OFFICE SYSTEMS AND SPECIALTIES

College of Technical Careers  
(Associate in Applied Science)

Susan S. Rehwaldt  
Program Coordinator  
Telephone - 618-453-7288  
Technical Careers Building  
Room 107

Recent developments in office systems and related technologies have resulted in many new career opportunities for administrative personnel with enhanced general office skills or specific training in the medical, legal or court reporting fields. Both men and women trained in this program will find rewarding careers in these diverse fields. Advisory committees participate in discussions and make recommendations regarding appropriate course content. Coursework is designed to improve keyboarding skills, computer literacy, English language usage, office procedure competency, and document production techniques. All students must complete the general requirements and then the requirements in the specialization area chosen: Administrative Assistant, Legal Office Assistant, Medical Office Assistant or Court and Conference Reporting.

### Office Systems and Specialties--General Requirements

General requirements for all Office Systems and Specialties students are as follows:

GED 101, 102 (6)	English Composition I and II
TC 101 (3)	Business Communications
OSS 111 (3)	Beginning Keyboarding
OSS 112 (3)	Intermediate Keyboarding
OSS 113 (3)	Advanced Keyboarding
OSS 114 (3)	Office Software Applications
OSS 208 (3)	Applied Law for Technical Careers I
OSS 209 (3)	Applied Law for Technical Careers II

Additional requirements in the Administrative Assistant specialization are:

GED 152 (3) or 153 (3)	Interpersonal Communication or Public Speaking
TC 120 (3)	Fiscal Aspects of Technical Careers
OSS 107 (2)	Filing and Records Systems
OSS 109 (3)	Calculating Numerical Information
OSS 118 (3)	Introduction to Machine Transcription
OSS 140 (3)	Word Processing Concepts
OSS 205 (2)	Office Supervision and Management
OSS 233 (3)	Administrative Support Procedures
OSS 290 (4)	Cooperative Office Experience

and courses in either the shorthand or non-shorthand option:

#### Shorthand Option:

OSS 131 (4)	Beginning Shorthand
OSS 132 (4)	Intermediate Shorthand
OSS 232 (3)	Administrative Shorthand

#### Non-Shorthand Option:

OSS 240 (3)	Word Processing Applications
OSS 241 (3)	Advanced Office Software Applications
CIP 109 (3)	Information Processing Concepts
Elective (3)	Approved by advisor

Additional requirements in the Legal Office Assistant specialization are:

GED 152 (3) or 153 (3)	Interpersonal Communication or Public Speaking
TC 120 (3)	Fiscal Aspects of Technical Careers
OSS 131 (4)	Beginning Shorthand (or Machine Shorthand)
OSS 132 (4)	Intermediate Shorthand (or Machine Shorthand)
OSS 290 (4)	Cooperative Office Experience

and 20 credit hours from the following:

OSS 107 (2)	Filing and Records Systems
OSS 109 (3)	Calculating Numerical Information
OSS 118 (3)	Introduction to Machine Transcription
OSS 182 (3)	Legal Terminology and Documents
OSS 220 (3)	Legal Document Production
OSS 221 (3)	Legal Terminology/Dictation and Transcription
OSS 223 (3)	Legal Administrative Support Procedures
OSS 233 (3)	Administrative Support Procedures

NOTE: Persons completing the Legal Office Assistant specialization often transfer, under the Capstone Program, into the Paralegal Studies (bachelor's degree) program in the SIUC's College of Liberal Arts.



Additional requirements in the Medical Office Assistant specialization area are:

GED 152 (3) or 153 (3)	Interpersonal Communication or Public Speaking
TC 120 (3)	Fiscal Aspects of Technical Careers
AHC 141 (4)	Anatomy and Physiology
OSS 107 (2)	Filing and Records System
OSS 109 (3)	Calculating Numerical Information
OSS 118 (3)	Introduction to Machine Transcription
OSS 261 (3)	Medical Terminology, Dictation, and Transcription I
OSS 262 (3)	Medical Terminology, Dictation, and Transcription II
OSS 263 (3)	Medical Administrative Support Procedures
OSS 264 (3)	Health Insurance Processing
OSS 290 (4)	Cooperative Office Experience
Elective (3)	Approved by advisor

Additional requirements in the Court and Conference Reporting specialization area are:

AHC 141 (4)	Anatomy and Physiology
OSS 180 (1)	Introduction to Court Reporting
OSS 182 (3)	Legal Terminology and Documents
OSS 186 (4)	Basic Machine Shorthand
OSS 187 (4)	Advanced Machine Shorthand
OSS 188 (3)	Court Transcript Preparation
OSS 261 (3)	Medical Terminology, Dictation and Transcription I
OSS 281 (3)	Legal Testimony I
OSS 282 (3)	Literary/Medical
OSS 283 (3)	Legal Testimony II
OSS 284 (3)	Literary/Legal I
OSS 385 (3)	Legal Testimony III
OSS 386 (3)	Literary/Legal II
OSS 388 (3)	Court Reporting Procedures
OSS 389 (3)	Court Practicum

**NOTE:** Students entering court reporting must be able to type 30 words per minute. Good language skills are highly desirable. Students are required to purchase a shorthand machine and have the machine available to them the first day of classes and thereafter. This specialization includes training in computer aided transcription which enables a court reporter to more quickly prepare transcripts. Court and conference reporting requires attendance at the summer session between the two academic years of the normal associate degree program.

Minor in Office Systems and Specialties (for students with a major in Spanish):

This minor is intended for students with a major in Spanish who wish to train as bilingual office assistants.

For those skilled in the office support areas of keyboarding, shorthand, and transcription, the minor requirements are:

OSS 107 (2)	Filing and Records Systems
OSS 109 (3)	Calculating Numerical Information
OSS 205 (2)	Office Supervision
OSS 208 (3)	Applied Law for Technical Careers I
OSS 232 (3)	Administrative Shorthand
OSS 233 (3)	Administrative Support Procedures
OSS 290 (4)	Cooperative Office Experience
TC 101	Business Communications
OSS Electives (6-10)	Approved by advisor

For those unskilled in shorthand, keyboarding, and transcription, the minor requirements include the courses listed above and:

OSS 111 (3)	Beginning Keyboarding
OSS 112 (3)	Intermediate Keyboarding
OSS 113 (3)	Advanced Keyboarding
OSS 114 (3)	Office Software Applications
OSS 118 (3)	Introduction to Machine Transcription
OSS 131 (4)	Beginning Shorthand
OSS 132 (4)	Intermediate Shorthand



PARALEGAL STUDIES FOR LEGAL ASSISTANTS

College of Liberal Arts  
(Bachelor of Science)

Dr. M. Browning Carrott  
Director  
Telephone - 618-453-4391  
Faner Hall, Room 3280

The Paralegal Studies Program, leading to a B.S. degree in Paralegal Studies in the College of Liberal Arts, will prepare the graduate to function as a paraprofessional in the legal profession and as a legal assistant, whether in private practice, legal aid offices, or the law-related operations of business, industry, education, or government.

In overall philosophy, as well as in curriculum content and format, the Paralegal Studies Program follows the lead of the American Bar Association Special Committee on Legal Assistants in its "Proposed Curriculum for the Training of Law Office Personnel".

The program has two components:

1. A core of legal specialty courses and administration related courses designed to provide career specificity and professional competency.
2. A range of social science, humanities, and communication skills courses designed to provide a spirit of inquiry and a depth of vision of the various contexts within which the paralegal's professional life will take place.

In addition, the student must meet all University requirements as well as appropriate College of Liberal Arts requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (select) <sup>1</sup>	3	-
GEB 212	Intro. to American Government and Politics <sup>1,2</sup>	-	3
GEC	Humanities (select)	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra <sup>1</sup>	-	3
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Studies (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or	Interpersonal Communication <sup>1,2</sup> or		
GED 153	Public Speaking <sup>1,2</sup>	-	3
GEE	Human Health and Well Being <sup>1</sup>	2	2
ACCT	Accounting <sup>3</sup>	3	-
CIP 109 or	Computer Information Processing or		
CS 102	Computers in Society	-	3
ENGL 290	Intermediate Expository Writing <sup>3,5</sup>	-	3
SCR 220	Legal Documents Production	-	4
		14	15

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Recommended but not required for major.

<sup>3</sup>Required by the major.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit after the full year is completed.

<sup>5</sup>Computer Science 102 and English 290 may be used toward partial fulfillment of the Liberal Arts requirements.

Representative First Job Titles: Legal Assistant, Paralegal.

The Philosophy Department offers a broad range of courses covering the areas of ethics, aesthetics, logic, metaphysics, the history of both Western and Oriental philosophy, as well as art, education, history, and religion.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC 102 or 208	Problems in Philosophy or Elementary Logic <sup>2</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
MATH or CS	Mathematics or Computer Science <sup>3</sup>	-	3
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	-
GEC 104 or 213	Moral Decision or E. Asian Civilization	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
ENGL COMP <sup>3</sup>	English Composition (above 100 level)	-	3
FL	Foreign Language <sup>4</sup>	4	4
PHIL 304	Ancient Philosophy <sup>5</sup>	3	-
PHIL 305	Modern Philosophy <sup>5</sup>	-	3
Electives <sup>6</sup>		-	3
		<u>16</u>	<u>16</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>No more than two courses or six hours on the 100 and 200 level will count toward the major.

<sup>3</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>5</sup>Required course for a major in Philosophy.

<sup>6</sup>Elective hours should be used to explore areas of interest and enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

#### Philosophy As A Major

The program in philosophy is an excellent background for future work in law schools, seminars, government service and other professional areas, as well as graduate school. The Department maintains its own advisement system to help the student design a program which best suits his or her interests and needs. The Honors Program in Philosophy provides students a chance to participate in seminars on a variety of topics.

Representative First Job Titles: Researcher, Minister, Technical Writer, Community Relations, Employee Relations, Grievances Specialist, Public Relations, Publications Officer, Alcoholism & Drug Addiction Researcher, Archival Worker, Museum Curator, Public Information Specialist, Mediator, Civic Reform Studies Specialist, Sales Trainee, Delinquency Prevention Specialist, Group Interaction Studies Specialist, Morale Studies Specialist, Public Health Investigator, Motivational Researcher, Librarian.

## PHOTOGRAPHIC PRODUCTION TECHNOLOGY

College of Technical Careers  
(Associate in Applied Science)

Robert White  
Program Coordinator  
Telephone - 618-453-2454  
Blue Barracks

The Photographic Production Technology program is a two-year Associate Degree program within the College of Technical Careers.

Served by an advisory committee of professionals active in the photographic and photo-finishing industry, the program is designed to prepare students for careers in industrial, commercial and private photography, and photofinishing organizations.

Through active involvement in professional organizations, Photo Marketing Association International and Professional Photographers of America, the techniques and processes included in the instructional program are current and consistent with industrial needs.

Students will be involved in photographic processes and techniques in lecture/laboratory sessions, tour industrial and commercial installations, and be involved in actual production needs of the University's Photographic Services division which is operated by the Photographic Production Technology program.

During the two-year program, students will be involved with all facets of photography and photo finishing. Students should expect to spend approximately \$750 for materials and chemicals. In addition, each student is to provide their own fully-adjustable camera. Second year students complete two semesters of photography and photofinishing production internship experience at University Photographic Services.

Some of the advantages of the program are the diversity of actual photographic assignments and photofinishing production assignments to be performed meeting the needs of a major university community, and the flexibility which it provides in career opportunities. A bachelor's degree program through the College of Technical Careers is also available for those completing the associate degree.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 106	Chemistry for Non-Science Majors	3	-
GED 101	English Composition	-	3
PPT 111	Photo Processing I	4	-
PPT 113	Photo Processing II	4	-
PPT 115	Photo Processing Equipment	4	-
PPT 209	Graphics for Photography	-	4
PPT 211	Photo Processing III	-	6
SCR 100	Typewriting	-	3
TC 105a	Technical Mathematics	2	-
		<u>17</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
FIN 300	Personal Finance	-	3
GED 153	Public Speaking	-	3
CIP 109	Introduction to Information Processing	3	-
PPT 215	Photo Processing IV	6	-
PPT 221	Photo Processing V	6	-
PPT 251a	Photo Lab Mgt. (lecture)	-	3
PPT 251b	Photo Lab Mgt. (lab)	-	6
		<u>15</u>	<u>15</u>

Total of 63 semester hours.

Core courses (9-100 + 200 level courses, 43 hours)  
Supportive courses (7 general education, 20 hours)

### Photographic Production Technology As A Major

The associate degree program can be completed in two academic years at SIUC or in combination with community college or other acceptable educational experiences.

The concentration is intended to qualify young people for positions as teachers, coaches, or specialists in public and private elementary or secondary schools, colleges, and universities as well as other social agencies which promote physical activity programs. Courses have been designed to meet the requirements of state departments of education and other agencies which have adopted professional standards.

Complete and integrated experience in teaching physical education and assisting in coaching under qualified supervisors is provided in the cooperating schools of the area. Added experiences are gained through membership in the Club; membership in professional associations, participation on intramural teams; assisting in service class testing; professional journals; and working with recreational and school groups in teaching techniques of various activities.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115	Biology	3	-
GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GEB 301	U.S. History <sup>2</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE 201	Healthful Living <sup>2</sup>	2	-
Electives		<u>1</u>	<u>4</u>
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 114	American Government <sup>2</sup>	3	-
GEC	English Elective in Humanities (required) <sup>2</sup>	-	3
GED 153	Public Speaking <sup>2</sup>	2	-
GEE	Elective	-	2
PE	Electives	7	4
PHSL	Physiology <sup>3</sup>	-	3
		<u>15</u>	<u>15</u>

<sup>1</sup> Refer to the section General Education for Transfer Students.

<sup>2</sup> The following courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government; GEB 301, U.S. History; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

<sup>3</sup> A course in physiology approved by the department.

#### Physical Education As A Major

GPA 2.50 minimum for Teacher Education Program.

A secondary concentration (the student may select the area) is recommended.

Refer to the Undergraduate Catalog for specific major requirements.

Minors are available in Aquatics, Athletic Training, and Coaching.



**PHYSICAL EDUCATION**  
**Athletic Training Specialization**  
**College of Education**  
**(Bachelor of Science)**

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

Chair  
 Physical Education  
 Telephone - 618-536-2431  
 Davies Gymnasium, Room 106

The Athletic Training program is designed to train students to provide exemplary first-aid care for student-athletes, and administer rehabilitation, therapeutic treatment, and preventative conditioning programs under the supervision of a physician. This program prepares graduates for careers as Athletic Trainers in public schools, colleges and private and industrial settings.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 101	Conceptual Insights into Modern Communication Systems	3	-
GEB 202	Introduction to Psychology	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II <sup>3</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (Activity)	-	2
CHEM 115	Chemistry	-	3
F&N 215	Introduction to Nutrition	3	-
HED 334	First Aid	-	3
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology	4	-
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 153	Public Speaking	3	-
GEE 201	Healthful Living <sup>3</sup>	-	2
PHSL 208 & 209	Physiology (including Lab) <sup>2</sup>	-	4
GEE 236	Nutritional Ecology	2	-
	Elective	-	3
		<u>15</u>	<u>15</u>

<sup>1</sup>Refer to the section General Education for the Transfer Student.

<sup>2</sup>A course in physiology approved by the department.

<sup>3</sup>Required for this major.

**Physical Education Athletic Training Specialization**

Refer to the Undergraduate Catalog for specific major requirements.

Major GPA required is 2.50.

Students interested in either the athletic training major or minor should apply in the Physical Education Department in Davies Gym. Enrollment is limited.

**PHYSICAL EDUCATION**  
**Exercise Science and Physical Fitness**  
 Specialization  
 College of Education  
 (Bachelor of Science)

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

Chair  
 Physical Education  
 Telephone - 618-536-2431  
 Davies Gymnasium, Room 106

This program is designed for students who wish to direct physical fitness programs in private, industrial and public settings. Preparation in this program enables the graduate to assess components of adult fitness, design individual exercise programs for the development and maintenance of physical fitness, and manage a physical fitness program. Graduates will have the foundation for continued study at the graduate level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Zoology	4	-
GEB 202	Introduction to Psychology	-	3
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	4
GEE 107 or 201 or 236	Human Health and Well Being (select)	2	-
PE	Electives	<u>1</u>	<u>5</u>
		16	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (Activity)	-	2
PE	Elective	2	-
PHSL 208 & 209	Principles of Physiology and Lab	4	-
ACCT 210	Accounting Principles or	-	3
or MGMT 170	Introduction to Business	-	3
CHEM 140a,b	Chemistry	<u>3</u>	<u>3</u>
		15	14

<sup>1</sup> Refer to the section General Education for the Transfer Student.

Physical Education - Exercise Science and Physical Fitness Specialization

Refer to the Undergraduate Catalog for specific requirements.

**PHYSICAL THERAPIST ASSISTANT**  
**College of Technical Careers**  
**(Associate in Applied Science)**

**C. Dale Pape**  
**Program Coordinator**  
**Telephone - 618-453-2361**  
**Wham Education Building, Room 141**

The Health Careers Council of Illinois reports that the field of physical therapy is one of the five most critical areas in which a manpower shortage exists. There are growing demands for physical therapy services in hospitals, extended care and nursing home facilities, in public school settings, and in private practices. The nation's concern and interest in improving our health care delivery system to the entire population should continue to provide opportunities for skilled workers in this field.

The physical therapist assistant is a skilled technician who works within the physical therapy service, which is under the direction of a physical therapist. The assistant is responsible to and supervised by the physical therapist (PT).

A minimum of 72 credit hours is required for the associate degree.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology	4	-
GEB 202	Introduction to Psychology	-	3
GED 101	English Composition	3	-
GED 152	Interpersonal Communication	-	2
AHC 105	Medical Terminology	2	-
PHSL 208, 209	Physiology	-	4
PHSL 300	Human Anatomy	-	3
PTH 100	Physical Therapy Orientation	2	-
PTH 113	Physical Agents I (10 weeks)	1.5	-
PTH 207	Massage (6 weeks)	1.5	-
PTH 202	Physical Rehabilitative Techniques	-	2
PTH 204	Practicum I	-	2
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CIP 224	Computing for Business Administration	3	-
HED 334	Standard First Aid	3	-
PE 302	Kinesiology of Normal & Pathological Conditions	2	-
PE 320	Physiological Bases of Human Movement	-	3
PE 325 or 326	Training Room Techniques or Emergency Care & Prevention	-	2 (3)
PSYC 301, 303, 304 or 305	Psychology	-	3
PTH 203	Pathology	2	-
PTH 205	Physical Therapy Science	-	2
PTH 208, 209A, and 209B	Therapeutic Exercise I, IIA, & IIB	3	3
PTH 213	Physical Agents II	3	-
PTH 214	Practicum II	-	3
		<u>16</u>	<u>16-17</u>
		<u>Summer</u>	
PTH 321a,b	Clinical Internship	8	
PTH 322	Clinical Seminar	2	
		<u>10</u>	

**Physical Therapist Assistant As A Major**

The student should expect to spend approximately \$125.00 for uniforms and insurance.

Under the supervision of the PT, the student will utilize various physical agents such as heat, cold, light, water, electricity, and sound. The student will also be able to administer massage and therapeutic exercises as well as teach gait and other activities of daily living. The student will assist in more complex procedures such as administering manual muscle tests, electrical tests, and other evaluative examinations. The student also observes, records, and reports to the supervisor conditions, reactions, and responses related to his or her assigned duties. Other duties include general physical therapy record keeping and housekeeping.

This program is accredited by the American Physical Therapy Association. Available facilities restrict program enrollment. Applicants are admitted to SIUC in the category Pre-Physical Therapist Assistant, and are provided the additional application materials included in the requirements for admission to the program. All completed application materials to the program for Fall 1991 will be reviewed after January 15, 1991. Enrollment for the Fall 1991 class will be closed as soon as available spaces are filled with qualified candidates. Applications completed after that date will be considered for acceptance as space is available and at the discretion of the admissions committee.

Before graduation, the student will serve an internship of twelve weeks in two separate hospitals located away from the campus.

**Representative First Job Titles:** Physical Therapist Assistant.

A major in Physics may be pursued through either the College of Science or the College of Education. The program of study provides for a mastery of the basic principles of classical and quantum physics. It also provides a breadth of coverage in the applications of physics principles to neighboring fields. Because of the central position of physics among the physical sciences, the physics graduate with his analytical and instrumental skills can flexibly contribute to the solution of pressing national problems of energy supply, water resources, transportation, environmental healthfulness, security and other vital concerns. A basic knowledge of classical and quantum physics is essential for a successful entry into a very wide variety of interdisciplinary areas of science such as biophysics, geophysics, communications science, space science, environmental science, medical science, and engineering.

The program at SIUC, building upon a solid foundation of classical physics, provides a sound introduction to atomic and molecular physics with options for specializing in solid state, atmospheric, plasma, nuclear, mathematical physics and biophysics.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 114	American Government & Politics	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GEE 201	Healthful Living	-	2
CHEM 222a,b	Intro. to Chemical Principles & Lab	4	4
MATH 111	Pre-Calculus <sup>3</sup>	5	-
MATH 150	Calculus I	-	5
		<hr/> 15	<hr/> 17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB 202	Introduction to Psychology	3	-
GEB 301	U.S. History <sup>2</sup>	-	3
GEC	English, Elective in Humanities (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 153	Public Speaking	-	3
GEE	P.E. Activity <sup>2</sup>	-	2
MATH 250	Calculus II	4	-
PHYS 205a, b,			
255a, b	University Physics & Lab <sup>4</sup>	4	4
		<hr/> 17	<hr/> 15

<sup>1</sup> See also the program (B.S.) under the College of Science.

<sup>2</sup> To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup> Math 111 substitutes for GED Mathematics.

<sup>4</sup> These courses count towards the GEA science requirement.

<sup>5</sup> These courses are for students with a year or more of high school chemistry. Those with less than a year should take Chem 115 (Introduction to General Chemistry) before Chem 222.

#### Physics As A Major

The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.



A major in physics may be pursued through either the College of Science or the College of Education. The program of study provides for a mastery of the basic principles of classical and quantum physics. It also provides a breadth of coverage in the application of physical principles to related fields. Because of the central position of physics among the physical sciences, the physics graduate with analytical and instrumental skills can flexibly contribute to the solution of pressing national problems, from energy to the environment. A basic knowledge of classical and quantum physics is essential for successful entry into a wide variety of interdisciplinary areas of science such as biophysics, geophysics, communications science, space science, environmental science, medical science, and engineering. The program at SIUC, building upon a solid foundation of classical physics, provides a sound preparation in modern physics necessary for undertaking advanced study in physics and related areas or to participate in research and development work in industry or government laboratory.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition <sup>2</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	1	2
*CHEM 222a, b	Introduction to Chemical Principles & Lab <sup>3,4,5</sup>	4	4
MATH 111	Pre-Calculus <sup>4</sup>	5	-
*MATH 150	Calculus I <sup>4</sup>	-	4
		<hr/> 16	<hr/> 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEE	Human Health and Well Being (select) <sup>2</sup>	-	1
BIOL	Biological Sciences (not GE-A) <sup>3,4</sup>	3	3
FL	Foreign Language <sup>3,4</sup>	4	4
*MATH 250	Calculus II	4	-
*MATH 251	Calculus III	-	4
*PHYS 205a, b			
and 255a, b	University Physics and Lab <sup>3,4</sup>	4	4
*PHYS 301	Theoretical Methods in Physics	-	2
		<hr/> 15	<hr/> 18

\*Required courses for a major in Physics.

<sup>1</sup>See also the program (B.S.) under the College of Education.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup>Approved substitutes for General Education.

<sup>4</sup>Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

<sup>5</sup>These courses are for students with a year or more of high school chemistry. Those with less than a year should take Chem 115 (Introduction to General Chemistry) before Chem 222.

#### Physics As A Major

At SIUC, a student may elect one of several options to prepare himself or herself as a physicist. Choices exist for both the experimentally and theoretically-oriented student. The physics major may prepare to enter the graduate school or an industrial and/or government laboratory. In addition, there is a degree option for those wishing to teach in the secondary level school system. Current projections indicate there will be serious shortages of physicists in the 1990's. Hence, job opportunities and salaries which at present are very good, will continue to improve.

Representative First Job Titles: Physicist, Acoustician, Design Physicist, Quality Control Physicist, Research Physicist, Aerodynamics Scientist, Applied Physics Researcher, Astrophysicist, Atomic and Molecular Physicist, Biophysicist, Geophysicist, Factory Insurance Representative, Thermodynamicist, Optics Physicist, Manufacturer's Representative, Mechanics Physicist, Nuclear Physicist, Plasma Physicist, Product Studies and Testing Physicist, Solid-State Physicist, Physical Metallurgy Scientist, Biophysicist, Astronomer, Geodesist, Crystallographer, Air Pollution Analyst, Theoretical Physicist, Health Physicist.

Physiology involves studying the functioning of organisms during life and how life processes operate. Courses include physiological techniques, pharmacology, electron microscopy, and anatomy. A bachelor's degree in physiology provides good background for a variety of research positions in academia, industry and government as well as for working with data analysis, sales and professional writing. However, a B.A. degree in physiology is particularly valuable as preparation for further education including medical and other health-related professional schools, and graduate programs in physiology, cell biology, and other disciplines. After completing graduate work, colleges and universities provide the greatest job opportunities. Government agencies are the second largest employers of physiologists.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
FL	Foreign Language (select) <sup>2,3</sup>	4	4
CHEM 222a,b	Introduction to Chemical Principles <sup>2,3</sup>	4	4
MATH 108 & 109	College Algebra and Trigonometry <sup>2,3</sup>	3	3
		<u>17</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
BIOL 305	Genetics <sup>3</sup>	-	3
CHEM 380a,b	Organic and Biological Chemistry <sup>4</sup>	3	3
MATH 150 or 250	Calculus	4	4
PHYS 203a,b and 253a,b	College Physics and Lab <sup>2</sup>	4	4
		<u>14</u>	<u>17</u>

<sup>1</sup> Refer to section General Education for the Transfer Student.

<sup>2</sup> Approved substitutes for General Education.

<sup>3</sup> Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

<sup>4</sup> If a student chooses the one-year Organic Chemistry series, Biochemistry (CHEM 380b or 451) is required in the third or fourth year. If a student chooses Chemistry 380 (one semester Organic Chemistry, one semester Biochemistry), it may be taken during the second or third year.

### Third and Fourth Years

During the third year, a student may select from Biology 307, 308, 309. A student fulfills remaining General Education requirements and select physiology courses according to professional interests and remaining departmental requirements. Students are required to do some laboratory research with individual faculty during their third and fourth years.

### Physiology As A Major

In addition to adequate equipment for all routine work, the following facilities are available to our graduate students: cell and tissue culture facilities, ultracentrifuge, high performance liquid chromatography, complete facilities for radioimmunoassays, environmental chambers with controlled photoperiod and temperature, activity recorders, an RCA and a Hitachi electron microscope as well as a shadowcaster, photographic equipment, knifebreaker, and ultramicrotome; isotopic equipment including scalars and monitors; fully equipped animal rooms, autoclave, several varieties of analytic balances, refrigerated centrifuges; constant temperature baths and ovens; walk-in cold rooms, electrophoresis equipment; Warburg apparatus; physiographs; fraction collectors; oscilloscopes; blood gas apparatus, electrocardiograph, strength testing equipment; personal computers and computer terminals.

Representative First Job Titles: Physiologist, Pharmacologist, Bioastronautician, Physiological Researcher, Genetics Researcher, Manufacturer's Representative, Pathologist, Technical Writer, Biostatistician, Researcher, Toxicologist, Pharmaceutical Sales Representative.

Plant Biology is a broad science that includes many specialties. For example, a person who has a quantitative turn of mind and enjoys mathematics or chemistry might find genetics or biochemistry exciting, whereas a person who has always enjoyed outdoor activity might be attracted to systematics or ecology. Plant Morphology might appeal to a person who enjoys observation and interpretation, but plant physiology might have more appeal for a person who prefers experimentation. The exact courses that should be selected by a student who wishes to prepare for a career in plant biology or for graduate study will vary somewhat depending upon the area of plant science in which he or she intends to specialize.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
BOT 200	General Botany <sup>3</sup>	-	4
CHEM 222a	Introduction to Chemical Principles <sup>3</sup>	4	4
*FL	Foreign Language <sup>3</sup>	4	4
*MATH 108, 109	College Algebra and Trigonometry <sup>3</sup>	3	3
		<hr/> 17	<hr/> 18
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	3	3
GEC	Humanities (select) <sup>2</sup>	3	6 (3+3)
GED 152	Interpersonal Communication	3	-
GEE	Human Health and Well Being <sup>2</sup>	3	1
BOTANY 204	Plant Diversity	4	-
BOTANY 304	Plant Classification	-	3
*BIOLOGY 306	Cellular Biology	-	3
		<hr/> 16	<hr/> 16

\*Approved substitutes for General Education.

<sup>1</sup>See also the program under the College of Education (Bachelor of Science).

<sup>2</sup>To determine what courses may be taken to satisfy this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup>Students in the College of Science must take one year of foreign language, one year of math, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.

### Third and Fourth Years

The last two years of a student's program should include completion of three additional hours in GEA, GEB, or GEC, Biology 305, Biology 307, and the following course in plant biology: Botany 320 and botany electives totaling 16 hours, distributed so as to include at least one course from each of the following groups:

- Group A. 400, 404, 405, 406, 411, 412, 413, 414, 421
- Group B. 409, 410, 430, 439, 449, 450, 451, 485
- Group C. 440, 443, 444, 448
- Group D. 425a, 425b

Electives planned to include courses in Computer Science, Microbiology, Physics, Statistics and Zoology.

### Plant Biology As A Major

As a general rule, a student who intends to apply for admission to a graduate school for study for an advanced degree in plant biology should include the following in his or her undergraduate program: inorganic and organic chemistry, mathematics through calculus, a modern European language, physics and as many plant biology and biology courses as time and scheduling will permit. An honors program is available to those juniors and seniors in plant biology who have an overall grade point average of 3.00 or better and an average in plant biology courses of 3.25 or better. The honors student should enroll in Botany 492 during some semester of both junior and senior years for a total of no fewer than three semester hours.

Representative First Job Titles: Agricultural Sales, Biological Product Development Scientist, Botanist, Ecologist, Economic Botanist, Horticulture Technician, Plant Breeding Technician, Plant Ecologist, Plant Morphologist, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Plant Protection Technician, Quality Control Specialist, Technical Library Operator, Museum Curator, Biotechnologist, Industrial Bacteriologist, Naturalist, Conservationist, Agricultural Commodities Inspector, Researcher, Teacher, Cytologist, Plant Molecular Biologist.



PLANT AND SOIL SCIENCE

(Business Option)

College of Agriculture

(Bachelor of Science)

Dr. Donald Stucky, Chair

Telephone - 618-453-2496

Agriculture Building, Room 176

The Department of Plant and Soil Science includes field crop production, horticulture and soils. There are many widely varied opportunities for students with an interest in plants or soils. The program is designed to provide thorough training in both theory and practice. Although the business option is oriented toward the student interested in working in business and industry, he or she still may select courses in a wide choice of electives from throughout the College of Agriculture and the University. Opportunities for individual program development may be realized through work experience, internships, special education, and seminars. A course of study in international agriculture can be taken if the student so desires.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being <sup>2</sup>	2	2
BOT 200	General Botany and Lab <sup>1</sup>	4	-
CHEM 140a	Chemistry <sup>1</sup>	-	4
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>18</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	2	-
GEB	Social Studies (select)	3	-
GEC	Humanities (select)	-	3
GED 153	Public Speaking	-	3
GEA or B or C	Elective	-	3
ABE 204	Intro to Agricultural Economics <sup>1</sup>	3	-
ACCT 210	Accounting Principles and Control	-	3
CHEM 140b	Chemistry	4	-
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
		<u>15</u>	<u>16</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>See General Education for the Transfer Student for information on SIUC's General Education requirements.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. A total of 40 hours in agriculture is required which includes 28 hours in Plant and Soil Science, and six hours from two other departments in the College of Agriculture. Of the 28 required hours in Plant and Soil Science, at least fifteen hours must be at the 300 and 400 level with no less than nine hours at the 400 level. In addition, the student must take either Marketing 304 or ABE 360, and Management 301 or 304, eight hours of business electives, a course in computers, and Botany 320. The student may select courses within the University for eight hours of outside electives.

Plant And Soil Science As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with potential employers and assists students in finding internships and permanent positions. A minor is not required and there is no foreign language requirement. An honors program and a work experience program are available.

Representative First Job Titles: Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.



The Environmental Studies option is designed to familiarize the student with environmental problems relating to plants and soils. Thorough training in the solution to these problems will prepare students for interesting careers with environmental protection agencies, pollution control boards and other agencies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	One course from either group: Group 1 GEB 103, 104 or 105 Group 2 GEB 108 or 102	3	-
GEC	Humanities (select)	3	-
GEC 221	Survival of Man	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	-
ABE 204	Intro. to Agricultural Economics	-	3
BOT 200	General Botany and Lab <sup>1</sup>	-	4
CHEM 222a&b	Intro. to Chemical Principles and Lab <sup>1</sup>	4	4
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 330	Weather	-	3
GEB 212	Intro. to American Government & Politics	3	-
GEC	Humanities (select)	-	3
GED 153	Public Speaking	3	-
GEE	Human Health and Well Being (select)	-	2
GEA or B or C	Elective	3	-
AG 333	Agr. & Forestry Env. Problems	-	3
ECON 215	Introduction to Microeconomics	3	-
MATH 108, 109	College Algebra and Trigonometry	3	3
PLSS 220	General Horticulture	-	3
		<u>15</u>	<u>17</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>See General Education for the Transfer Student for information on SIUC's General Education requirements.

### Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. The student must enroll in the following courses: ANI 455-2, AGRI 401-3, and 440-3; BOT 320-4; ECON 333-3, PLSS 200-3, 240-4, 380-1, 419-3, 420-4, 441-3, 447-3, and 468-3, POLS 325-3; a course in computers, and CE 314-4. In addition, the student may select courses within the University for three hours of outside electives, and nine hours of electives in the College of Agriculture.

### Environmental Studies As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with employers and assists students in finding internships and permanent positions. A minor is not required and there is no foreign language requirement. An honors program and a work experience program are available.

**Representative First Job Titles:** Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.

The Department of Plant and Soil Science includes field crop production, horticulture and soils. There are many widely varied opportunities for students with an interest in plants or soils. The program is designed to provide thorough training in both theory and practice. Although the general option is production oriented, the student may select elective courses from the College of Agriculture and the University. Opportunities for individual program development may be realized through work experience, internships, special education, and seminars. A course of study in international agriculture can be taken if the student so desires.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	2	2
ABE 204	Agricultural Economics <sup>1</sup>	-	3
BOT 200	General Botany with Lab <sup>1</sup>	4	-
CHEM 140a	Chemistry <sup>1</sup>	-	4
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB	Social Studies (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 153	Public Speaking	-	3
GEA or B or C	Elective	-	3
CHEM 140b	Chemistry	4	-
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
PLSS elective		-	3
		<u>16</u>	<u>16</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>Consult the section General Education for the Transfer Student.

### Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. A total of 45 hours in agriculture is required which includes 28 hours in Plant and Soil Science, six hours from two other departments in the College of Agriculture, a course in computers, and Botany 320-4. Of the 28 required hours in Plant and Soil Science, at least fifteen hours must be at the 300 and 400 level with no less than nine hours at the 400 level. In addition, the student may select courses within the University for nineteen hours of outside electives.

### Plant And Soil Science As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with potential employers and assists in finding internships and permanent positions. A minor is not required and there are no foreign language requirements. An honors program and a work experience program are available.

Representative First Job Titles: Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.

**PLANT AND SOIL SCIENCE**  
 (Landscape Horticulture)  
 College of Agriculture  
 (Bachelor of Science)

Dr. Donald Stucky, Chair  
 Telephone - 618-453-2496  
 Agriculture Building, Room 176

The Department of Plant and Soil Science includes in its program an option in Landscape Horticulture. The program is designed to provide thorough training in both theory and practice to prepare students for interesting careers in landscaping or gardening in parks, playgrounds, residential or industrial areas, road and street parkway improvement and maintenance, and in other public and private work to make the environment more pleasing and useful.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Sciences (select) <sup>2</sup>	3	-
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>2</sup>	2	2
ABE 204	Agricultural Economics <sup>1</sup>	-	3
BOT 200	General Botany and Lab <sup>1</sup>	4	-
CHEM 140a	Chemistry <sup>1</sup>	-	4
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>18</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	-	2
GEB	Social Sciences (select) <sup>2</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 153	Public Speaking	-	3
GEA or B or C	Elective	3	-
AdSc 301	Management and Supervision	-	3
AGEM 376	Applied Graphics	2	-
CHEM 140b	Chemistry	4	-
PLSS 240	Soil Science	-	4
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>18</u>

<sup>1</sup>Substitutes for General Education requirements.

<sup>2</sup>Refer to the section General Education for the Transfer Student.

**Third and Fourth Years**

The last two years of a student's program concentrate on specific professional objectives. The student must enroll in the following courses: BIOL 307-3, BOT 320-4, 356-4, or 357-3, PLSS 322-3, PLSS 327-3; 328a, b-2,2; 381-1, 428a, b-33, 432-4 or 434-3, a course in computers, and ZOOL 316-3. In addition, the student may select courses within the University for four to six hours of outside electives, and ten hours of electives in the College of Agriculture.

**Landscape Horticulture As A Major**

Numerous job opportunities are available for graduates of this option. The department maintains close contact with employers and assists students in finding internships and permanent positions. A minor is not required and there is no foreign language requirement. An honors program and a work experience program are available.

**Representative First Job Titles:** Landscape Gardener, Nurseryman, Garden Center Manager, Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.

## PLANT AND SOIL SCIENCE

(Science Option)  
College of Agriculture  
(Bachelor of Science)

Dr. Donald Stucky, Chair  
Telephone - 618-453-2496  
Agriculture Building, Room 176

The Department of Plant and Soil Science includes field crop production, horticulture and soils. There are many widely varied opportunities for students with an interest in plants or soils. The program is designed to provide thorough training in both theory and practice. Although the science option is oriented toward the student interested in an advanced degree, he or she still may select elective courses from the College of Agriculture and the University. Opportunities for individual program development may be realized through work experience, internships, special education, and seminars. A course of study in international agriculture can be taken if the student so desires.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (select) <sup>2</sup>	2	2
ABE 204	Agricultural Economics <sup>1</sup>	-	3
BOT 200	General Botany and Lab <sup>1</sup>	4	-
CHEM 222a&b	Introduction to Chemical Principles <sup>1</sup>	4	4
MATH 108, 109	College Algebra and Trigonometry <sup>1</sup>	3	3
PLSS 200	Principles of Field Crop Production	-	3
		<u>16</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select)	3	3
GEC	Humanities (select)	3	3
GED 153	Public Speaking	-	3
GEA or B or C	Elective	3	-
PHYS 203 a&b	College Physics	3	3
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
AG electives		<u>2</u>	<u>-</u>
		<u>17</u>	<u>16</u>

<sup>1</sup> Substitutes for General Education requirements.

<sup>2</sup> Consult the section General Education for the Transfer Student.

### Third and Fourth Years

The last two years of a student's program concentrates on specific professional objectives. A total of 40 hours in agriculture is required which includes 28 hours in Plant and Soil Science, and six hours from two other departments in the College of Agriculture. Of the 28 required hours in Plant and Soil Science, at least fifteen hours must be at the 300 and 400 level with no less than nine hours at the 400 level. In addition, the student must take Botany 320, Chem 340 and 341, a course in computers, and four hours of courses in mathematics, physical sciences, or biological sciences. The student may select courses within the University for nine hours of outside electives.

### Plant And Soil Science As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with many universities and research laboratories and assists in placing students. A minor is not required and there is no foreign language requirement. An honors program and a work experience program are available.

Representative First Job Titles: Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.



**POLITICAL SCIENCE**  
**(Government)**  
 College of Education  
 (Bachelor of Science)

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

The Department of Political Science offers an undergraduate major in the College of Liberal Arts and the College of Education. The major requires a minimum of thirty-four hours in Political Science courses. A minimum GPA of 2.5 is required. Furthermore, at least three courses must be taken at the 400 level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	-
GEB 114	American Government & Politics	3	-
GEB 202	Introduction to Psychology	-	3
GEB 211	Contemporary Economics <sup>3</sup>	-	3
GEC	Humanities (select) <sup>2</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE 201	Human Health <sup>2</sup>	2	-
Electives		1	1
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>2</sup>	3	3
GEB 250	Intro. Comparative Government & Politics <sup>3</sup>	3	-
GEB 301	U.S. History	-	3
GEC	English Elective in Humanities	3	-
GED 153	Public Speaking	3	-
GEE	Activity Course	-	2
Elective <sup>2,4</sup>		4	8
		<u>16</u>	<u>16</u>

<sup>1</sup>See also the program under the College of Liberal Arts.

<sup>2</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>3</sup>Recommended but not required.

<sup>4</sup>Elective hours should be used in the following ways: 1) students may explore areas of interest; 2) in order to select a minor.

**Political Science As A Major**

The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

The Department of Political Science offers undergraduate majors in the College of Liberal Arts and the College of Education. The major requires a minimum of 33 hours in five different fields. A minimum GPA of 2.0 is required. Furthermore, at least three courses must be taken at the 400 level, and at least 14 of the required 33 hours must be earned at SIUC.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	3
GEB 114	Intro. to American Government & Politics <sup>2</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 250	Politics of Foreign Nations <sup>5</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
FL	Foreign Language <sup>3</sup>	4	4
MATH (select)	Math 150, 250, 282 or 283 <sup>4</sup>	3	-
POLS 200	Intro. to Discipline of Political Science <sup>5</sup>	-	3
Elective <sup>6</sup>		-	3
		<u>16</u>	<u>15</u>

\*See also the program under the College of Education.

<sup>1</sup>See General Education for the Transfer Student.

<sup>2</sup>Required by the major.

<sup>3</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>4</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>5</sup>Recommended but not required. Political Science majors are strongly urged to take POLS 200 at some time, preferably early, in their studies.

<sup>6</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (refer to College of Liberal Arts section).

#### Political Science As A Major

The Greek word "idiot" meant one who has no interest in politics and the affairs of state. Hence, the study of political science is one of the oldest and most central of all intellectual activities. Some of the major topics of political science are: What is the best form of government? How do various governments around the world actually work?

Political science majors work with questions as old and important as the above as well as with recently developed social science research techniques. Courses in political science encourage students to question, analyze and reason in addition to improving written and verbal communication skills. They also provide a great deal of expertise on the inner workings of all levels of government and the relationships between government and the private sector.

Political Science majors are encouraged to receive a broad education tailored to their particular career plans. Those interested in foreign affairs should stress a foreign language. A student interested in social science research skills can combine political science with economics, statistics and computer science. Someone interested in a legal career can join political science with English, philosophy and a range of other social sciences. The SIUC Department of Political Science offers a full range of courses in the field and has developed significant visibility for its research efforts in recent years.

Career Opportunities: Political Science is one of the most versatile majors in the liberal arts. It provides training for public service, scientific polling and political analysis, business management training programs, diplomacy, foreign affairs, and teaching at the secondary level. Political Science is an excellent foundation for professional training in law, journalism, public administration, or public affairs as well as for graduate work in political science which is essential for a career in higher education. It is also the natural choice for the non-vocationally oriented student who has an interest in politics and public affairs.

The SIUC pre-dental program meets the general requirements of all United States dental schools. It is designed by the Health Pre-Professional Committee to prepare students for taking the Dental Admission Test not later than spring of the junior year. The Committee and the Health Professions Information Office are available to offer information and guidance to pre-dental students and to assist in the process of application by furnishing a composite evaluation of each applicant to the dental schools to which he or she applies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118 <sup>1</sup>	Introductory Zoology	4	-
GEB	Social Studies (select)	3	3
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (Activity) <sup>3</sup>	2	-
MATH 108, 109	College Algebra and Trigonometry	3	3
ZOOL 220b <sup>1</sup>	Diversity of Animal Life (Vertebrate)	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select)	3	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>3</sup>	2	-
CHEM 222a,b <sup>2</sup>	Introduction to Chemical Principles	4	4
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
		<u>16</u>	<u>14</u>

<sup>1</sup>Community college students may substitute one or two semesters of general biology with laboratories for zoology if the biology courses are intended for science majors.

<sup>2</sup>Students lacking high school chemistry must begin with Chem 115. Chemistry majors or students hoping to enter dental school with only three years of college should plan to complete inorganic and organic chemistry during their first two years. Generally, there is some advantage to finishing pre-dental chemistry requirements at a four-year college.

<sup>3</sup>Refer to the section General Education for the Transfer Student.

### Third and Fourth Years

If all requirements are completed, students may take the Dental Admission Test in spring of their sophomore or fall of their junior years and apply for entry after three years of undergraduate preparation. Most students, however, are admitted to dental schools after four or more years of preparation. Students may choose any major and must complete the departmental, college and University requirements for a degree. No preference among possible majors is given by the professional schools. In addition to required courses, it is recommended that the student choose from among the following courses, as his or her time permits: genetics, cellular biology, embryology, developmental biology, comparative anatomy, microbiology, biochemistry, psychobiology, personality or social psychology. Additional mathematics, statistics, humanities and social sciences will also be helpful.

### Dentistry As A Career

Professional training requires four years in the dental school. Specialties beyond general practice require further training. Dentistry is becoming increasingly involved in the detection of a variety of diseases and in esthetic improvement, correction and reconstruction, preventive dental care, and community health care as well as in private practice.

The Association of American Law Schools and the Southern Illinois University School of Law emphasize that the effectiveness of prelegal study cannot be advanced by prescribing courses of study or extracurricular activities. Instead, students should cultivate basic skills and insights through education for comprehension and expression in words, for critical understanding of the human institutions and values with which law deals, and for creative power in thinking. This is best achieved in fields of individual interests and abilities. Subjects which provide stimulating training for one person may do very little to arouse and sharpen the intellect of another. In addition, law touches so many phases of human activity that there is scarcely a subject which is not of value to the law student and to the lawyer. A student is therefore advised to place as much emphasis on the liberal arts as his or her own program of undergraduate study will permit; and within the outlines of that program the following should also be noted:

The essential ability to think precisely and exactly is most likely to be acquired through courses in logic, mathematics, philosophy, and the natural sciences.

Courses in English composition and public speaking develop the power of clear and well-ordered expression. Courses in which students receive intensive faculty critiques of their writing skills are highly recommended. Preparation in composition is essential and preparation in public speaking is of great value.

The fields of history (particularly English and American history), political science, psychology, economics, and sociology are important to an appreciation of human institutions and values and their relation to law.

An understanding of financial statements and of elementary accounting principles has become almost indispensable. Some familiarity with computers is also helpful.

There are opportunities in special types of practice for those who concentrate in particular fields, such as engineering, business administration, chemistry, physics, or agriculture before entering law school.

Refer to the section General Education for the Transfer Student to determine what courses may be taken to satisfy the University's general education requirements.

#### Pre-Law

Pre-Law is not a major in that students cannot receive a degree in Pre-Law. Since most law schools now require applicants to possess a bachelor's degree, students are advised to select a major in the academic unit where they would like to obtain a degree.



## PRE-MEDICINE (INCLUDING OSTEOPATHIC MEDICINE)

Pre-Professional  
(Select Academic Unit)

Patricia Sims  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-185

At SIUC, the pre-medical program is guided by the Health Pre-Professional Committee. Through the Health Professions Information Office students are able to find information concerning professional schools and their requirements, curriculum guidance, and assistance with the procedures involved in applying to medical or osteopathic medical schools. The curriculum meets the general requirements of all United States medical schools and is designed to provide students with a strong course background on which to base their medical education.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118 <sup>1</sup>	Introductory Zoology	4	-
GEB	Social Studies (select)	3	3
GEC	Humanities (select)	-	3
GED 101, 102	English Composition I and II	3	3
GEE	Human Health and Well Being (select)	2	-
MATH 108, 109	College Algebra and Trigonometry	3	3
ZOOL 220b <sup>1</sup>	Diversity of Animal Life (Vertebrate)	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select)	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
CHEM 222a,b <sup>2</sup>	Introduction to Chemical Principles	4	4
ENGL 290	Intermediate Expository Writing	-	3
MATH 150	Calculus	-	4
Electives <sup>3</sup>		<u>3</u>	<u>5</u>
		<u>16</u>	<u>16</u>

<sup>1</sup>Community college students may substitute a year of general biology with laboratory if the course is intended for science majors.

<sup>2</sup>Students lacking high school chemistry must take Chem 115 prior to Chem 222. Chemistry majors should begin chemistry in the first year.

<sup>3</sup>Community college students are encouraged to complete foreign language and associate degree requirements before transferring. Taking the additional pre-medical sciences at a four-year college is preferred.

## Third and Fourth Years

Pre-Medical students must complete organic chemistry and a year of physics in the third year in order to take the Medical College Admission Test in the spring of that year. Application procedures require a year.

Pre-medical students may choose any major in which to earn the bachelor's degree. Requirements of that degree, of the college in which it is granted, and of the University must be met at the same time that pre-medical requirements are taken. If a science major is chosen, there will be considerable overlapping of requirements. Additional courses recommended for pre-medical preparation include genetics, cellular biology, embryology or developmental biology, comparative anatomy, microbiology, biochemistry, psychobiology, additional mathematics, and social sciences. If the major chosen is in the College of Science, a year of foreign language will be required.

## Medicine As A Career

Medical training will require another four academic years, plus residency. Admission to medical schools is extremely competitive. Students can help themselves by making realistic appraisals of their interests and abilities, by planning ahead to meet all requirements and time schedules, and by keeping themselves informed of admission requirements and procedures. They will receive help through the Health Professions Information Office and the Health Pre-Professional Committee.

Medicine today offers both promise and challenge, whether students are interested in becoming primary physicians, physician specialists or medical scientists. Prevention as well as cure, and the extension of health care to all of society have become important goals in the preparation of physicians.

The flexibility with which the pre-medical students at SIUC may approach their total undergraduate preparation as well as the quality of the pre-medical requirements make it possible for students to achieve an excellent pre-medical preparation.

PRE-NURSING  
Pre-Professional  
Pre-Major Advisement Center

Billie Jacobini  
Pre-Major Advisement Center  
Telephone - 618-453-4351  
Woody Hall, Wing C, Room 117

or

Mary Goss  
Pre-Major Advisement Center  
Telephone - 618-453-4351  
Woody Hall, Wing C, Room 117

The baccalaureate degree in nursing is offered at Southern Illinois University at Edwardsville. Students may complete selected General Education and nursing pre-requisites at Carbondale during their first three semesters and apply for admission to the School of Nursing at SIU-Edwardsville for the remainder of the baccalaureate program.

The total program is designed for those who wish to become registered nurses or registered nurses who wish: 1) to strengthen their scientific basis for nursing practice, 2) to broaden and deepen their general educational and cultural background, and 3) to obtain a baccalaureate degree to qualify for further study on the graduate level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 104	The Human Experience - Anthropology	3	-
GEB 108	The Sociological Perspective	-	3
GEC 104	Moral Decision	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
CHEM 140a,b	Chemistry (inorganic, organic, and biochemistry)	4	4
PHSL 301	Survey of Human Anatomy	-	4
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	3	-
GEB 262	Marriage and Family in Contemporary Society	-	3
GEC	Select	3	3
GEC 208	Elementary Logic	-	3
HED 311	Human Growth and Development	3	-
MICRO 301	Principles of Microbiology	4	-
PHSL 208, 209	Principles of Physiology & Lab	4	4
PSYC 305	Psychology of Personality	-	3
		<u>17</u>	<u>16</u>

As soon as possible after advisement for the fall semester, freshman year, the student should see Mrs. Goss, Nursing Advisor, to initiate application to the School of Nursing at SIUE. Deadline date is at least three quarters prior to the quarter the student is applying for. After three semesters at SIU Carbondale, it takes at least eight quarters to complete the baccalaureate nursing program at SIU Edwardsville.

A grade of 'C' or above is required in all nursing courses, all science courses and nursing prerequisites. Students with an overall 2.5 grade point average (4.0 scale) will be considered admissible up to the limit of available space.

Constitution requirement is still required at Edwardsville.

Statistics is now required for SIUE School of Nursing.

Students who take GEB 104, GEB 202, and GEB 108 will be considered as having fulfilled the Social Studies requirements for the General Education program at SIUE.

**PRE-OPTOMETRY**  
Pre-Professional  
(Select Academic Unit)

Patricia Sims, Advisor  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-185

Various optometry schools require a minimum of sixty or ninety semester hours of college courses before students can be admitted. However, most of the students admitted in recent years hold a baccalaureate degree. In view of this fact, community college students will be better prepared by fulfilling requirements for an AA degree and postponing some optometry requirements until the third and fourth years.

<u>First Year<sup>1</sup></u>		<u>Fall</u>	
<u>Spring</u>			
GEA 118 <sup>2</sup>	Introductory Zoology	4	-
GEB 202	Psychology	-	3
GEC	Humanities (select)	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
MATH 108, 109	College Algebra and Trigonometry	3	3
ZOOL 220b <sup>2</sup>	Diversity of Animal Life (Vertebrate)	-	4
		<u>13</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	Humanities (select)	3	-
CHEM 222a,b <sup>3</sup>	Introduction to Chemical Principles	4	4
MATH 150	Calculus I (with analytic geometry)	4	-
MATH 282 <sup>4</sup>	Statistics	-	3
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
	Elective	-	3-5
		<u>15</u>	<u>14-16</u>

<sup>1</sup>See information above concerning course selection.

<sup>2</sup>Community college students may substitute one or two semesters of general biology if it is a course for science majors and if it includes 3-4 hours per week in laboratory.

<sup>3</sup>Chemistry majors or other students hoping to enter optometry school after three years must begin a chemistry sequence in the first year and take organic chemistry in the second in order to take the Optometry College Admissions Test one year prior to optometry school entry. Students with no high school chemistry must begin with CHEM 115.

<sup>4</sup>Any three-hour statistics course taught by business, mathematics, or psychology department is acceptable.

### Third and Fourth Years

No degree is given in pre-optometry. Students may choose any major at SIUC. Additional requirements of optometry schools include microbiology, organic chemistry, and additional psychology courses. Students interested in Indiana must have a course in either human or comparative anatomy and a year of college level foreign language or two years of high school foreign language.

Recommended courses include child (or developmental) and other psychology, introductory business, genetics, embryology, and cell biology.

### Optometry As A Career

Optometry training requires four years in an accredited professional school. The candidates then take a licensing examination.

Career opportunities exist in individual or group practice, in hospitals or eye clinics, in public health agencies, in industrial health programs, and in consultant services to other professions, such as educators in remedial reading, illuminating engineers, or highway safety planners.

Current changes in pharmacy programs make it imperative that pre-pharmacy students have some particular school in mind and are aware of its requirements. The only Illinois program (University of Illinois at Chicago) now is a Doctor of Pharmacy (Pharm. D) program requiring two years of preparatory courses such as the following:

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118 <sup>1</sup>	Introductory Zoology	4	-
GEB 108	The Sociological Perspective	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
CHEM 222a,b	Introduction to Chemical Principles	4	4
MATH 108,109	Algebra-Trigonometry	3	3
PHSL 208, 209 or 310	Principles of Physiology & Lab or Introductory Human Physiology	-	4-5
		<u>14</u>	<u>17-18</u>

Students may need to enroll in additional courses during the summer term to avoid overloads during regular semesters. (See "In Addition" below).

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
CHEM 344, 346	Organic Chemistry	4	2
CHEM 345, 347	Laboratory Techniques	2	3
MATH 140 or 141	Short Course in Calculus	-	4
MICRO 301	Principles of Microbiology	4	-
PHSL 301	Survey of Human Anatomy	-	4
Electives	See additional requirements below	-	3
		<u>16</u>	<u>16</u>

<sup>1</sup> May substitute a biology course with laboratory if it is a course for biological science majors.

#### In Addition

Students must complete fourteen additional hours of general education courses consisting of fine arts (art, music, or drama), physical sciences (astronomy, geology, or physics), and humanities (history or philosophy) before entering the Pharm. D. program. These may be added to the suggested schedule above or taken during summer terms. Accepted students will then spend four years in the professional school.

The nearest B.S. in Pharmacy program is located at the St. Louis College of Pharmacy. Students may take one or, at most, two years of pre-pharmacy courses at SIUC and apply to enter as second or third year students in the five-year program. A pharmacy doctorate is also available.

Applicants for the St. Louis program would add economics or government and botany to the first year courses above and delete psychology. During the second year (if taken at SIUC), they must include the physiology majors course (PHSL 310), medical terminology, western cultural tradition, and statistics, but may delete calculus, microbiology and speech courses. However, it will be advantageous to the students to be on the pharmacy school campus during the second year in order to begin courses taught only by the pharmacy school.

#### Pharmacy As A Career

Students with an aptitude for science and interest in the pharmaceutical field will find that pharmacy offers a variety of careers. The pharmacist may practice in a retail business, in a hospital or clinic or in public health facilities. In industrial pharmacy there are opportunities in research, manufacturing, quality control, administration and sales. Graduate programs are available for pharmacists who seek advancement to careers requiring a master's or doctoral degree.



## PRE-PHYSICAL THERAPY

Pre-Professional  
College of Science

Patricia Sims, Advisor  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-185

SIUC offers courses to meet the requirements of any physical therapy school. The curriculum suggested below includes minimum requirements of three Illinois professional schools so that students may apply to more than one school. Admission is extremely competitive. Applicants should have some knowledge about physical therapy and some experience in patient care. Application must be made nine months to a year in advance of the beginning date at the professional schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology	-	4
GEB 202	Psychology	-	3
GEC	Humanities (select)	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GEE	Human Health and Well Being (Activity)	2	-
CHEM 222a,b	Introduction to Chemical Principles	4	4
MATH 108, 109	College Algebra and Trigonometry	3	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEC	Humanities (select)	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health & Well Being (select)	2	-
PHSL 310	Introductory Human Physiology or other approved Physiology course	-	4-5
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
PSYCH 301	Child Psychology	3	-
PSYCH 305	Personality Psychology	3	-
PSYCH 431	Psychopathology	-	3
ZOOL 220b	Diversity of Animal Life (Vertebrate)	4	-
		<u>16</u>	<u>17-18</u>

Also required: current certification in cardiopulmonary, resuscitation (CPR) and in first aid.

Recommended electives include Anatomy (PHSL 301), Kinesiology (PE 302 or 303), Psychobiology (PSYC 302), sports or skill oriented physical education courses, additional social science courses. Students may prefer to attend summer or spread pre-physical therapy course work through more than two years.

### Third and Fourth Years (current in 1988-89)

Northwestern University now requires students to have a baccalaureate degree before entering their physical therapy program. The degree may be in any discipline provided that specific Physical Therapy requirements are met. The program is two years long resulting in a master's degree.

Students who complete training in any of the other three Illinois PT programs are currently admitted with two years (minimum) of specific coursework and earn the baccalaureate degree in two more years at the PT school.

STUDENTS WHO DECIDE TO REMAIN AT SIUC FOR A BACCALAUREATE DEGREE MUST CONSULT AN ACADEMIC ADVISOR AND PLAN A CURRICULUM LEADING TO A DEGREE IN AN APPROVED PROGRAM. The pre-physical therapy curriculum does not lead to any SIUC degree, nor does it guarantee admission into a professional school.

New requirements are expected. Other physical therapy programs are changing over to a master's degree. A few have already made the change, requiring students to have a baccalaureate degree before entering physical therapy school. The student is advised to contact the professional school where he/she might want to finish in order to keep up-to-date on their specific requirements.

## PRE-VETERINARY MEDICINE

Pre-Professional  
(Select Academic Unit)

Patricia Sims, Advisor  
Health Professions Information Office  
Telephone - 618-536-2147  
Neckers A-185

This curriculum is based on the requirements for application to University of Illinois College of Veterinary Medicine. Although students may apply to professional school after two years undergraduate preparation, most accepted students have completed a degree. Students may choose to spread the required pre-veterinary sciences through a third year. If a degree is to be completed, a major will be chosen in either the School of Agriculture or the College of Science.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118 <sup>1</sup>	Introductory Zoology	4	-
GEB	Social Studies (select)	-	3
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
ANS 121	Science of Animals	3	-
ANS 122	Production and Processing Practices	1	-
BOT 200 <sup>1</sup>	General Botany and Laboratory	-	4
MATH 108, 109	College Algebra and Trigonometry	3	3
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select)	-	3
GEC	Humanities (select)	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being	2	-
BIOL 305	Genetics-Classical and Molecular	-	3
CHEM 222a,b	Introduction to Chemical Principles	4	4
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
		<u>16</u>	<u>14</u>

<sup>1</sup>Community college students should substitute general biology if available for zoology and botany listed. Eight hours of biological sciences (with laboratory experience) suitable for science majors is required.

## Third and Fourth Years

Students must complete organic chemistry and biochemistry. In addition to required pre-veterinary courses, there are recommended courses from which the student may choose in accordance with his or her available time. These include Horses, Animal Nutrition, Behavioral Manipulation of Animals, Vertebrate Zoology, Comparative Anatomy, Cell Physiology, Environmental Biology, and Organismic Functional Biology.

No degree is given in pre-veterinary studies. Students should choose an academic major in a science or in animal science and complete its requirements simultaneously with the admission requirements of the veterinary school. Admission is competitive and is usually granted to students with much more than minimum preparation. Most first year veterinary students have four or more years of pre-veterinary education.

## Veterinary Medicine As A Career

After acceptance into the professional school, completion of training in veterinary medicine requires four years. Illinois residents are most likely to be accepted by the University of Illinois veterinary program although a few students are being accepted out of state. With the diversity of offerings at SIUC, the pre-veterinary students have an opportunity to develop related or alternate interests at the same time that they are preparing themselves to apply to the veterinary school.

Professional veterinarians have a wide variety of career choices. They may choose small animal practice, livestock disease prevention and control, meat inspection, control of diseases transmitted from animal to man, supervision of interstate movement of animals, or research in animal disease or in drugs used in animal care.

The psychology major consists of thirteen psychology courses including GE-B 202 for a total of 40 hours. College algebra or finite mathematics is also required. See the Undergraduate Catalog for the specific psychology requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
MATH 108 or	Finite Mathematics	-	3
MATH 139	College Algebra <sup>2</sup>	-	3
Elective <sup>3</sup>		3	3
		<u>14</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
FL	Foreign Language <sup>4</sup>	4	4
PSYC	Psychology Elective	3	3
Elective <sup>3</sup>		-	3
		<u>13</u>	<u>16</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Besides being a required course for a major in Psychology, this math course may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later (see College of Liberal Arts section).

<sup>3</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

### Psychology As A Major

The major program serves three main classes of students: 1) those who wish an interesting major but who plan no postgraduate academic work, 2) those who plan non-psychology graduate work for which an undergraduate major may be useful (e.g., medical school, social welfare, rehabilitation counseling), and 3) those preparing for graduate work in psychology. As a consequence, the program is aimed at providing broad general education rather than training in specialized psychological skills.

Representative First Job Titles: Alcoholism & Drug Addiction Researcher, Child Care Worker, Sales Agent, Senior Citizens Center (Director), Prisoner Classification Interviewer, Probation and Parole Incharge, Rehabilitation and Resettlement Personnel, Claims Authorizer, Drug Abuse Counselor, Mental Health Clinic Technician.

## RADIO-TELEVISION

College of Communications and Fine Arts  
(Bachelor of Arts)

Joe S. Foote, Chairperson  
Telephone - 618-536-7555  
Communications Building, Room 1056

A major in Radio-Television may be pursued through the College of Communications and Fine Arts. The program leads to the Bachelor of Arts degree. The program is designed to prepare students for leadership positions in the broadcasting industry or in related fields. As a part of the educational experience, students are encouraged to gain actual experience in any phase of broadcasting at the University-operated stations or local stations. Students are encouraged to focus their studies in one of three specializations: 1) Broadcast News, 2) Broadcast Production, 3) Broadcast Sales and Management.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEA 101	Conceptual Insights into Modern Communication Systems	3	-
GEB	Social Studies (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	3
*GED 101	English Composition <sup>2</sup>	3	-
*GED 102	English Composition II <sup>2</sup>	-	3
GED 152 or GED 153	Interpersonal Communication or Public Speaking	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	<u>2</u>	<u>1</u>
		14	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Studies (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	1	-
*R&T 300m	Intro. to Broadcast Writing, Performance, and Production <sup>3</sup>	3	-
*R&T 300p	History and Foundations of Broadcasting <sup>3</sup>	-	3
Elective	Advanced Courses beyond GE level Foreign Language or Computer Science	- <u>3-4</u>	<u>3</u> <u>3-4</u>
		13-14	15-16

\*Required courses for a major in Radio-Television.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Each student in Radio-Television must complete GED 101 and 102 with a grade of 'B' by the end of his or her sophomore year or a grade of 'C' in English 290 (Advanced Composition) in order to take advanced courses in Radio-Television. Students must also demonstrate a typing ability of 30 words per minute.

<sup>3</sup>Radio-Television 300M and 300P are required of all majors before enrollment in other Radio-Television courses is permitted. Both RT 300M and 300P must be passed with a grade of 'C' or better.

### Transfer of Broadcasting Credits

Transfer students with broadcasting credits in content covered by RT 300M and/or RT 300P may qualify for a Competency Test over that curriculum. If the 300M and/or 300P test is passed, the student need not repeat 300M and/or 300P at SIUC. Other broadcasting credits from two-year institutions may apply toward the major but not as equivalencies to any specific SIUC Radio-Television courses.

A minor of 15 hours is required of all students in Radio-Television. The minor should include courses in a single discipline outside the department and include courses beyond the GE level. Students should consult with their academic advisor for specific recommendations.

The major in Radio-Television consists of 35-38 hours minimum in Radio-TV coursework. Of those, 15 hours are required of all majors: RT 300M, RT 300P, RT 305, RT 308, and RT 393. In addition, students are expected to develop a specialization in a single area by taking three or four concentrated courses in either News, Production, or Management. Students are also required to complete a six semester-hour block in computer programming or foreign language. The Department of Radio-Television, with over 500 majors, is one of the largest and most respected programs of its kind in the nation.

Representative First Job Titles: Producer, Director, Sales Representative, News Writer, Copywriter, News Reporter, Newscaster, Announcer, Program Director, Sales Manager, Researcher, Community Affairs Director, Disc Jockey, Station Manager, Broadcast Engineer, Radio Account Executive, Camera Technician, Scriptwriter, News and Assignment Editor, Continuity Director.



**RADIOLOGIC TECHNOLOGY (Radlography)**College of Technical Careers  
(Associate in Applied Science)Steven Jensen, Coordinator  
Telephone - 618-453-8882  
Technical Careers Building  
Room 114

Radiography is an allied health specialty concerned with the production of x-ray films which enable the physician to diagnose disease processes occurring in the human body. The curriculum is designed to prepare students to become registered radiologic technologists. Completion of the course provides graduates with the educational requirements necessary to take the national certification examination administered by the American Registry of Radiologic Technologists. Since 1980, 95 percent of program graduates have successfully completed this examination. This number is well above the national average.

To be accepted into the radiologic technology degree program the student must have completed the general education courses designated under "first year" below. The advanced radiologic technology courses combine classroom and clinical education which upon completion allows the graduate to become registry eligible and to receive an associate in applied science degree in radiologic technology.

**FIRST YEAR - "PRE-REQUISITES"**

		<u>Lecture</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credits</u>
<u>Fall</u>					
GED 107	Intermediate Algebra	3	0	0	3
GED 152 or	Interpersonal Communication or	3	0	0	3
GED 153	Public Speaking	3	0	0	(3)
AHC 141	Intro to Physiology & Human Anatomy	4	0	0	4
AHC	Secondary Specialty-Allied Health	3	0	0	3
					<u>13</u>
<u>Spring</u>					
GEA 106 or	Chemistry or	3	0	0	3
TC 107	Applied Physics	3	2	0	(4)
GEB 202	Introduction to Psychology	3	0	0	3
GED 101	English Composition	3	0	0	3
AHC	Secondary Specialty-Allied Health	6	0	0	6
					<u>15/16</u>

**SECOND YEAR - "PROFESSIONAL COURSES"**

		<u>Lecture</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credits</u>
<u>Fall</u>					
AHC 102	Introduction to Radiologic Technology & Radiographic Technique	4	0	0	4
AHC 112	Anatomy & Positioning I (8 wks.)	3	6	0	3
AHC 132	Anatomy & Positioning II (8 wks.)	3	6	0	3
AHC 202	Radiographic Physics	3	0	0	3
					<u>13</u>
<u>Spring</u>					
AHC 222	Clinic I (16 weeks)	0	0	36	10
AHC 372A	Film Critique I	4	0	0	2
					<u>12</u>
<u>Summer</u>					
AHC 212	Special Procedures	4	0	0	2
AHC 232	Selected Systems Radiography	6	4	0	4
					<u>6</u>

**THIRD YEAR - "PROFESSIONAL COURSES"**

		<u>Lecture</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credits</u>
<u>Fall</u>					
AHC 332	Clinic II (16 weeks)	0	0	36	10
AHC 372B	Film Critique II	4	0	0	2
					<u>12</u>
<u>Spring</u>					
AHC 312	Radiographic Pathology	3	0	0	3
AHC 322	Cross-Sectional Anatomy & Radiographic Computerization	3	2	0	4
AHC 342	Radiation Biology, Therapy & Nuclear Medicine	2	0	0	2
AHC 352	Special Imaging Modalities	4	0	0	4
					<u>13</u>
<u>Summer</u>					
AHC 362	Clinic III (8 wks.)	0	0	40	4
AHC 372C	Film Critique (2 wks.)	16	0	0	2
					<u>6</u>

Available clinical facilities restrict program enrollment. Eleven area hospitals are used for clinical experiences. Special application materials are included in the requirements for admission to the program.

Selection of the fall class will be completed on a first qualified, first served basis. Traditionally, the program is filled by April 15. However, applications will be processed and considered after that date as space becomes available. Eleven area community colleges and one university participate in a "linkage" program whereby interested students may complete the first year of pre-requisite coursework.

**RECREATION**  
(Program Services)  
(Therapeutic Recreation)  
College of Education  
(Bachelor of Science)

Dr. John Allen, Chair  
Telephone - 618-453-4331  
Faner Hall, Room 4026

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

The Department of Recreation prepares the student for positions in the management of leisure time pursuits.

The curriculum emphasizes the practical as well as the theoretical aspects of recreation by offering practicums, supervised field experiences, and internships in various recreation settings throughout Illinois and the nation.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select physical or elective) <sup>1,2</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	-
**GEB 202	Introduction to Psychology	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra <sup>1</sup>	3	-
GEE 201	Human Health and Well Being <sup>1</sup>	-	2
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select biological)	-	3
*GEA 240	Ecology	3	-
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	P.E. Activity <sup>1</sup>	-	2
*HED 334	Standard First Aid	-	3
Electives	Accounting <sup>3</sup>	3	-
*Electives	Psychology	3	3
		<u>15</u>	<u>14</u>

\*Recommended, not required.

\*\*Departmental requirements.

<sup>1</sup>Refer to the section General Education for the Transfer Student. See also the Undergraduate Catalog for specific departmental requirements.

<sup>2</sup>Therapeutic Recreation specialization requires a course in physiology approved by the department.

<sup>3</sup>Program Services specialization requires a course in accounting approved by the department.

Recreation As A Major

Each student is expected to choose courses which will give a broad background in recreational activities and skills.

Students concentrating in recreation are encouraged to obtain the following certificates: American Red Cross Life Saving and Water Certificate, American Camping Association Campcraft Certificate, workshop certificates in recreation sponsored by the state and national recreation and park associations, and other certificates in instructional areas are desirable in preparation for positions in recreation management.

Representative First Job Titles: State Social Service Career Trainee, State Recreation Worker, Recreation Specialist, Activity Director, Recreation Supervisor, Operations Manager, Field Instructor, Program Director, Recreational Therapist.

If you are interested in any one or more of the following questions, think seriously about doing some work in Religious Studies: 1) Does my religious faith need to be examined and refined? 2) Am I suspicious that religion may be doing more harm than good? 3) Do I get involved in arguments about religion with other students? 4) Is modern society doomed because people are losing religious faith? Or because the churches are not doing the right things? 5) Is religion outdated in the modern world? 6) Are all religions basically alike? Or do they have serious differences and conflicts? 7) What do non-Christians believe?

Any one question or combination of these questions makes Religious Studies a fruitful and exciting academic program.

The study of religion, like politics, economics, the arts and technology, is one of the major ways of understanding what makes people behave as they do. Religion is one of the world's oldest modes of behavior, both social and individual. The Religious Studies Department does not promote any one religion; rather it provides a neutral territory for comparing religious options, both old and new. Such a study is particularly useful for anyone who wants to work with people.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science (select) <sup>1</sup>	3	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
FL	Foreign Language <sup>2</sup>	4	4
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GEC 215	Types of Religion	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
MATH or CS	Math or Computer Science <sup>3</sup>	-	3
RELS 201	Issues in Religion	-	3
Electives <sup>4</sup>		4	3
		<u>16</u>	<u>15</u>

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit. Greek or Hebrew is recommended.

<sup>3</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>4</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

#### Religious Studies As A Major

The primary prerequisite for a major in Religious Studies is not any one course, but rather, an open minded interest in the academic study of religion. To discover whether such interest exists, a student is advised (a) to take GEC 215 plus one elective before the end of the sophomore year; and (b) to confer with the Director of Undergraduate Studies, Faner 3339. In some instances, the department permits a student to receive major credit for courses taken in departments other than Religious Studies.

Representative First Job Titles: Director of Religious Education.

Respiratory therapy is an allied health specialty concerned with the treatment, management, control, and care of patients with deficiencies and abnormalities associated with respiration. It involves the therapeutic use of medical gases and administering apparatus, environmental control systems, medications, ventilatory control and breathing exercises, cardiopulmonary resuscitation, and measures and maintenance of natural, artificial, and mechanical airways.

The respiratory therapy curriculum is designed to prepare students to become registered respiratory therapists. Completion of the course provides graduates with the educational requirements necessary to take the national registry examination administered by the National Board of Respiratory Care (NBRC) and the Pulmonary Specialty Exam (CPFT).

To be accepted into the respiratory therapy degree program, the student must be admitted to both the University and the Allied Health Careers Specialties program. The advanced respiratory therapy courses consist of both formal classroom and off-campus clinical experiences. The clinical experience will be in a variety of locations to provide maximum opportunity for procedures. Upon satisfactory completion of the curriculum, the student is awarded two associate degrees.

It is highly recommended the student complete all pre-requisites before starting the professional sequence. The student should have all program application materials completed in the spring semester for fall entry. Availability of clinical sites and instructors restrict program enrollment.

The professional courses can be completed in 1 1/2 calendar years (three semesters and one summer session). While the regular semesters will utilize both classroom and clinical education experiences, the final fall semester is a full-time clinical internship at a designated full-service hospital, often in the student's home town or proximity. Post associate specialty courses in accordance with degree offerings through Advanced Technical Studies are in development.

Requirements for Major in Respiratory Therapy

Requirements for Major in Respiratory Therapy		63	
Completion of Allied Health Careers Specialties degree program		19	
Respiratory Therapy Advanced Courses (AHC designated)		82	
<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 106	Chemistry	3	-
GEA 115	Biology	3	-
GEB 202	Psychology	-	3
GED 101	English Composition	3	-
GED 107	Algebra	3	-
GED 152	Interpersonal Communication	-	3
AHC 141	Intro. to Physiology & Human Anatomy	-	4
MICRO 201	Microbiology	-	4
TC 107A/GEA 101	Applied Physics/Hi Fi-Laser	-	2
***AHC	Elective	3	3
		15	19
<u>Second Year*</u>		<u>Fall</u>	<u>Spring</u>
AHC 203	Principles of Respiratory Therapy	5	-
AHC 213	Respiratory Therapy Exercises	1	-
AHC 223	Patient Care Techniques	2	-
AHC 243	Cardiopulmonary Physiology	3	-
AHC 253	Clinical Practice I	1	-
AHC 263	Principles of Mechanical Ventilation	-	3
AHC 273	Mechanical Ventilation Laboratory	-	1
AHC 283	Survey of Pulmonary Diseases	3	-
AHC 293	Clinical Practice II	-	2
AHC 323	Respiratory Pathophysiology	-	3
AHC 313	Pharmacology	-	3
AHC 363	Pulmonary Evaluation and Monitoring	-	3
		15	15
		<u>Summer</u>	
AHC 300	Trends and Issues in Allied Health	3	
AHC 343	Neonatal/Pediatric Resp. Care	2	
TC 199(AHC 303)	Independent Study	1	
		6	
<u>Third Year</u>		<u>Fall</u>	
AHC 353	Clinical Internship	8	
AHC 373a	Clinical Practice III - Special Procedures	2	
AHC 353b	Clinical Practice III - Research Project	2	
		12	

\*\*\*AHC electives (six credit hours) must be approved by the respiratory therapy advisor.

SEE ALLIED HEALTH CAREER SPECIALTIES



Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, Foreign Language and International Trade, French, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. The student who has taken two years of one foreign language in high school (or equivalent) has the option to earn proficiency credit through taking a proficiency exam in Latin at the Testing Center or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. The Foreign Language Department will honor CLEP exams in French, German and Spanish. As an alternative or for additional credit, students who can enter at the 200 level or above are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

In addition to the personal satisfaction and substantial growth in intellectual resources that come with mastery of a new language, there are numerous types of employment and career possibilities that are opened up by appropriate training in foreign languages. These can be classified as: 1) employment in non-language areas where language proficiency is a supporting factor, and 2) language-centered careers. Government agencies (federal, state, and many local), and businesses that have international dealings, employ great numbers of individuals on the basis of skills that are basically non-linguistic (scientists, engineers, librarians, social workers).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
RUSS 136a,b	Elementary Russian <sup>2</sup>	4	4
		<hr/> 15	<hr/> 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
MATH or CS	Math or Computer Science <sup>4</sup>	-	3
RUSS 201a,b	Intermediate Russian <sup>3</sup>	4	4
Elective		-	3
		<hr/> 15	<hr/> 16

\*See also Foreign Language Education under the College of Education.

<sup>1</sup> See General Education for the Transfer Student.

<sup>2</sup> Two semesters (generally eight hours) of a foreign language are required for all Liberal Arts students who entered college during Fall 1978 or later. However, four of these hours may be used for GEC credit. The first year of Russian does not count toward the major.

<sup>3</sup> Required by major. Students with more than one year of high school Russian should take at least one substantial course in the Russian major each semester.

<sup>4</sup> One of these courses may be used to partially fulfill the Liberal Arts requirements for students beginning college anywhere Fall 1978 or later.

#### Russian As A Major

A major in Russian consists of 36 semester hours in courses above the 100 level with a minimum of 12 hours on the 300 level, 12 hours on the 400 level including at least one literature course, and 4 hours of 300 or 400 level Russian electives. A minor in Russian consists of 18 semester hours in courses above the 100 level.

Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

**Representative First Job Titles:** Airline Stewardess, Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Interpreter, Continuity Writer, Copywriter, Correspondent, Critical Writer, Editorial Writer, Feature Writer, Program Assistant.

**SOCIAL STUDIES**  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Billy Dixon, Chair  
Telephone - 618-536-2441  
Wham Building, Room 327

A major in Social Studies may be pursued through the Department of Curriculum, Instruction and Media in the College of Education. Course work includes the areas of history, political science, economics, geography, and anthropology - psychology - sociology. Such a major is designed to prepare individuals for teaching in junior and senior high schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
*GEA 330	Weather	-	3
*GEB 104	The Human Experience: Anthropology	3	-
*GEB 114	American Government & Politics <sup>2</sup>	3	-
*GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>1,2</sup>	-	3
GED 153	Public Speaking <sup>2</sup>	-	3
GEE 201	Healthful Living <sup>2</sup>	-	2
*POL SCI 213 or HIST 205A	State and Local Government History of Western Civilization	- -	3 -
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
*GEB 301	U.S. History <sup>2</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GEC	English Humanities Elective (required) <sup>2</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Activity Course	-	2
*ECON 214	Introduction to Macroeconomics	-	3
*SOC 301	Principles of Sociology	-	4
HIST 205B	History of Western Civilization	3	-
*HIST 300	Origins of Modern America, 1492 to 1877 <sup>2</sup>	<u>3</u>	<u>-</u>
		<u>15</u>	<u>15</u>

\*Required courses in Social Studies.

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> Required courses for teacher certification include: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, U.S. History; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

**Social Studies As A Major**

Students should be aware of requirements for entrance into the Teacher Education Program.

The School of Social Work at SIUC offers a professional accredited curriculum which is designed to meet the educational needs of students with career interests in the human services field. It leads to a Bachelor of Science degree in Social Work. The curriculum provides an interdisciplinary approach to understanding man in contemporary society, basic social problems, and some of the issues associated with the prevention and treatment of these problems. Students are helped to understand the principles and basic skills employed in developing and delivering services to individuals, families, groups, and communities. Students are prepared for direct service practice in both rural and urban settings. Positions in child welfare, gerontology, mental health, health services, women's programs, public and private social service agencies are typically available to graduates.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 108	Sociological Perspective <sup>2</sup>	-	3
GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health & Well Being (Activity) <sup>1</sup>	-	2
		<u>15</u>	<u>14</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 115	Biology <sup>2</sup>	3	-
GEB 211	Contemporary Economics <sup>2</sup>	3	-
GEB 212	Intro to American Government & Politics <sup>2</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152	Interpersonal Communication or Public Speaking	-	3
GEE 107, or 201 or 236	Human Health & Well Being (select) <sup>1</sup>	2	-
Electives	or Courses for Minor	<u>5</u>	<u>9</u>
		<u>16</u>	<u>15</u>

<sup>1</sup>To determine what courses may be taken to satisfy the General Education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Students are required to take these Area A and B courses.

### Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives.

In addition to social work courses, an introduction to statistics course is required and at least one 300 or 400 level course selected from: anthropology, economics, history, political sciences, psychology, or sociology.

A unique aspect of the Social Work program is an intensive field practicum. The practicum provides an opportunity to integrate theoretical knowledge and helping skills learned in the classroom with the "real world" settings of Southern Illinois social services agencies. A concurrent weekly seminar supports this integration of theory and practice.

Representative First Job Titles: Social Worker, Social Welfare Aide, Rehabilitation Counselor, Casework Assistant, Neighborhood Worker, Residential Welfare Facilitator, School Counselor, Employment Aide, Cooperative Extension Service Worker, Recreation Worker, Alcoholism & Drug Addiction Counselor, Child Placement Agent, Community Planning & Redevelopment Expert, Probation and Parole Officer, Case Aide, Medical Social Worker, Outreach Worker, Residential Care Worker, Mental Health Worker, Activities Director.

Sociology is the science of society. It explains how human groups, institutions and social movements shape our lives. Sociology has always been a discipline which prepares students to think and act critically in the practical details of life. Sociology students, therefore, study such topics as sex roles, the city, juvenile delinquency, marriage and the family, criminology, social change, complex organizations, power and social inequality.

Training in Sociology is basic both to creative living and to such practical tasks as the development and effective working of businesses, families, community service agencies, political movements and parties, churches, social clubs, government, industry and schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
MATH or CS	Math or Computer Science <sup>2</sup>	-	3
Elective <sup>3</sup>		3	-
		<u>14</u>	<u>17</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
FL	Foreign Language <sup>4</sup>	4	4
SOC 301	Principles of Sociology <sup>5</sup>	-	4
Elective <sup>3</sup>		3	3
		<u>16</u>	<u>14</u>

<sup>1</sup> See General Education for the Transfer Student.

<sup>2</sup> One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

<sup>3</sup> Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

<sup>4</sup> Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college anywhere Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>5</sup> Required for the sociology major.

### Sociology As A Major

The Department of Sociology offers two alternative plans of study for completion of its major.

General Sociology is for those seeking a broad academic background in sociology and is usually chosen either by those who want a general liberal arts education in the social sciences or those anticipating graduate study in one of the social sciences. Applied Sociology combines the general program in sociology with individually planned programs built around applied courses and field work experience. This program is designed to give people actual experience in a variety of applied settings and to enhance mastery of specific skills sought by employers. Such employers might include research institutes, women's centers, senior citizen centers and community planning agencies.

Representative First Job Titles: Administrative Aide (Gov't), Business Management Officer, Child Care Worker, Corrections/Parole Officer, Community Relations Personnel, Gerontologist, Labor Relations Specialist, Public Survey Analyst, Social Analyst, Social Stratification Analyst, Teacher, Urban Planner, Administrative Aide.



**SPANISH\***  
College of Liberal Arts  
(Bachelor of Arts)

Dr. Margaret E. Winters, Chair  
Telephone - 618-536-5571  
Faner Building, Room 2162

Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, Foreign Language and International Trade, French, German, Russian, and Spanish. There is also a special major in East Asian Studies leading to the Bachelor of Arts degree for students who have a professional or occupational interest in Asia.

Students majoring in a foreign language usually begin at the second or third level. The student who has taken two years of one foreign language in high school (or equivalent) has the option to earn proficiency credit through taking a proficiency exam in Latin at the Testing Center or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. The Foreign Language Department will honor CLEP exams in French, German and Spanish. As an alternative or for additional credit, students who can enter at the 200 level or above are encouraged to take a validating course. Since credit of up to 16 hours is available, such students are in an advantageous position to complete a double major.

In addition to the personal satisfaction and substantial growth in intellectual resources that come with mastery of a new language, there are numerous types of employment that are opened up by appropriate training in foreign languages. These can be classified as: 1) employment in non-language areas, and 2) language-centered careers. Government agencies (federal, state, and many local), and businesses that have international dealings, employ great numbers of individuals on the basis of skills that are basically non-linguistic (scientists, engineers, librarians, social workers).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	2	-
SPAN 140a,b	First-year Spanish <sup>2</sup>	4	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC	Humanities (select) <sup>1</sup>	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
MATH or CS	Math or Computer Science <sup>5</sup>	-	3
SPAN 201a,b	Second-year Spanish <sup>3</sup>	3	3
SPAN 220a,b	Spanish Conversation <sup>4</sup>	2	2
		<u>14</u>	<u>16</u>

\*See also the program under the College of Education.

<sup>1</sup>See General Education for the Transfer Student.

<sup>2</sup>Two semesters (generally eight hours) of a foreign language are required for all Liberal Arts students who entered college during Fall 1978 or later. However, four of these hours may be used for GEC credit. The first year of Spanish does not count towards the major. Spanish 175-5 may substitute for 140 a,b.

<sup>3</sup>Required by the major. Spanish 275-5 may substitute for 201 a,b. Students with more than one year of high school Spanish should take at least one substantial course in the Spanish major each semester.

<sup>4</sup>Only one semester of Intermediate Conversation may count toward the major.

<sup>5</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

**Spanish As A Major:** A major in Spanish consists of 36 semester hours in courses above the 100 level including 306, 320 and 415, plus any combination of 300 or 400 level courses which includes a literature course and at least nine additional 400 level hours.

A minor in Spanish consists of 18 hours in courses above the 100-level.

Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIUC.

**Representative First Job Titles:** Airline Stewardess, Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Announcer, Continuity Writer.

**SPECIAL EDUCATION**  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Norma Ewing, Chair  
Telephone - 618-453-2311  
Pulliam Hall, Room 127

In the Department of Special Education, teachers are prepared to work with behaviorally disordered, mentally retarded, and learning disabled children. Students seeking the Standard Special Certificate will complete a minimum 120 semester hour program leading to approval in one of the three handicap areas listed above. Students who wish to obtain joint certification in special education and elementary education must complete a 152 to 161 hour program.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 301	U.S. History <sup>1</sup>	3	-
GEC 101	Introduction to Art	-	3
GED 101	English Composition <sup>2</sup>	3	-
GED 102	English Composition II <sup>2</sup>	-	3
GEE 201	Healthful Living <sup>2</sup>	-	2
GEE	P.E. Activity <sup>1,2</sup>	2	-
MATH 114	Algebraic & Arithmetic Systems	4 (3)	-
Electives		-	3
		<u>15 (14)</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEB 114	American Government <sup>2</sup>	-	3
GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GEC	Humanities (select) <sup>1</sup> (Non-Western Civilization)	3	-
GEC	Literature (select) <sup>1,2</sup>	-	3
GED 152 or 153	Interpersonal Communication or		
	Public Speaking <sup>2</sup>	3	-
MUS 101	Music Fundamentals	3	-
PSYC 301	Child Psychology	-	3
MATH 314	Topics in Mathematics for Elementary Teachers	3	-
		<u>15</u>	<u>15</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> The following are required courses for teacher certification: GEB 202, Introduction to Psychology; GEB 114, American Government and Politics; GEB 301, History of the United States; Music 101, Fundamentals of Music for GEC (substitution); GED 101, English Composition; GED 102, English Composition II; GED 152, Interpersonal Communication or GED 153, Public Speaking; GEE 201, Healthful Living; and one additional English course (GEC or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

**SPECIAL MAJOR**  
**College of Liberal Arts**  
**(Bachelor of Arts)**  
**(Bachelor of Science)**

**Frederick Williams**  
**Special Major Program**  
**Telephone - 618-453-2824**  
**Faner 2427**

The Special Major program is located in the College of Liberal Arts and is administered by the University Honors Program.

A student whose academic needs are not met by existing baccalaureate programs may arrange a special baccalaureate degree program in lieu of a standard curriculum. In consultation with a faculty sponsor, the student draws up a program for which the baccalaureate degree will be awarded, pending final approval by the Coordinator of the Special Major Program. The special program should have structure, organization, and a rationale consistent with the student's post-baccalaureate plans. The Special Major must include all University and unit graduation requirements.

Students who are interested in the Special Major program should first consult with the Coordinator of the Special Major Program, Faner 2427, phone 453-2824.

The Special Major program allows qualified undergraduate students to design their own majors using the resources of more than one University department or program, if no specific major exists that will meet their academic needs and interests. Guidelines for developing a Special Major curriculum are available in the office of the Director of the University Honors Program, Faner 2427.

These require the student:

1. have a cumulative grade point average of 2.50 or better (to enter the program);
2. consult with the Coordinator of the Special Major Program about developing a Special Major;
3. obtain a faculty sponsor from a department with studies most like the Special Major;
4. collaborate with the sponsor to propose a workable plan of study, structured coherently around a central topic, with a title that identifies the programs individualized purpose;
5. receive approval of the program proposal from the Coordinator of the Special Major Program;
6. complete a least 28 semester hours, at the 300 or 400 level, of courses approved for the Special Major by the Coordinator of the Special Major Program, after the program is approved;
7. meet all graduation and course hour requirements of the University and of the college which agree to sponsor the Special Major. Final recommendation for a baccalaureate degree with a Special Major is the prerogative of the coordinator of the Special Major Program, with approval of the appropriate cooperating college dean.

Many careers demand the ability to communicate well. The Department of Speech Communication with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

The Communication Arts and Studies specialization provides students with strong basic communication skills, and the opportunity to structure much of their majors to their own tastes. Enough open electives remain for students who wish a second major.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
*GEC 200	Oral Interpretation of Literature	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
Electives		<u>3</u>	<u>-</u>
		15	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB	Social Studies (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	-
GED 107	Intermediate Algebra	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
*SPCM 221	Advanced Public Speaking	3	-
*SPCM 230	Introduction to Communication Theory	3	-
*SPCM 262	Interpersonal Communication II	-	3
GEE	Activity	-	2
Electives		<u>3</u>	<u>4</u>
		15	17

\*Departmental requirements.

<sup>1</sup>Refer to section General Education for the Transfer Student

Secondary students and community college students are encouraged to take part in as much speech activity work as possible prior to entering SIUC. Those who are interested in specializing in oral interpretation should also take as many literature courses as possible. Those students interested in other aspects of oral communication should take elective work in high school or at the community college in the social science areas.

#### Speech Communication As A Major

No minor required; no foreign language required.

The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

Graduate degrees (M.A., M.S., and Ph.D.) are available in Speech Communication. Students choose electives to build desired specialization.

**Representative First Job Titles:** Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer.



**SPEECH COMMUNICATION**  
 (Communication Education)  
 College of Communications and Fine Arts  
 College of Education  
 (Bachelor of Science)

Lori Sefton, Advisement  
 Telephone - 618-453-1895  
 Communications Building, Room 2019

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

The Communication Education specialization meets the Illinois requirements for teaching certification in speech at the secondary level. Students have the opportunity to take a minor, thus gaining a second teaching area.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 114 or 301	Introduction to American Government and Politics or U.S. History	-	3
GEB 202	Introduction to Psychology	3	-
*GEC 200	Oral Interpretation of Literature	-	3
*GEC 203	Introduction to Theater	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
*GED 153	Public Speaking	-	3
GE-E	Human Health and Well Being--Activity	1	2
GEE 201	Healthful Living	2	-
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Studies (select) <sup>1</sup>	-	3
GEC	English in Humanities (select) <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
*SPCM 221	Advanced Public Speaking	3	-
*SPCM 230	Introduction to Communication	3	-
*SPCM 261	Small Group Communication	-	3
*SPCM 262	Interpersonal Communication II	-	3
Electives		3	3
		<u>15</u>	<u>15</u>

\*Departmental requirements.

<sup>1</sup> Refer to section General Education for the Transfer Student

College of Education requires for certification: GEB 202; GEB 114 or 301; GED 101; GED 102; GED 153; GED 100-114 (2 hours), GEE 201; and one additional English course from GEC, GED or department.

#### Speech Communication As A Major

A student interested in the major should be aware of the requirements for entrance into the Teacher Education Program. The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

SPEECH COMMUNICATION

(Oral Interpretation)

College of Communications and Fine Arts  
(Bachelor of Science)

Lori Sefton, Advisement

Telephone - 618-453-1895

Communications Building, Room 2019

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Oral Interpretation majors often pursue careers in theater, radio and television, personnel training, and publishing. The Calipre Stage, which has regular productions and reading hours, provides a place for students and faculty to perform.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Studies (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	3	-
*GEC 200	Oral Interpretation of Literature	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE 103d	Dance (Beginning Contemporary)	2	-
Electives		<u>3</u>	<u>2</u>
		17	17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Studies (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	-	3
GED 107	Intermediate Algebra	-	3
GEE 107 or 201 or 236	Human Health and Well Being (select)	-	2
*SPCM 221 or 261	Advanced Public Speaking or Small Group Communication	3	-
*SPCM 262	Interpersonal Communication II	3	-
*THEA 213	Stage Movement	2	-
*THEA 217	Acting	-	2
*ENG LIT	Recommended by Department	-	3
Electives		<u>3</u>	<u>3</u>
		17	16

\*Departmental requirements.

<sup>1</sup>Refer to section General Education for the Transfer Student

Secondary students and community college students are encouraged to take part in as much activity work as possible prior to entering SIUC. Those who are interested in specializing in oral interpretation should also take as many literature courses as possible. Those students interested in other aspects of oral communication should take elective work in high school or at the community college in the social science areas.

Oral Interpretation (Speech) As A Major

No minor required; no foreign language required. The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

Graduate degrees (M.A., M.S., and Ph.D.) are available in Speech Communication. Students choose electives to build desired specialization.

Representative First Job Titles: Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer.

**SPEECH COMMUNICATION**

(Public Relations)

College of Communications and Fine Arts

(Bachelor of Science)

Lori Sefton, Advisement

Telephone - 618-453-1895

Communications Building, Room 2019

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Public Relations students are prepared to accept positions in such areas as public relations, advertising, marketing, government relations and sales. The Pyramid Public Relations Agency, run by students in the program under faculty supervision, gives students practical experience in applying what they have learned. Membership in the Raymond D. Wiley Chapter of the Public Relations Student Society of America provides opportunities for internships, field trips, job placement, involvement in on- and off-campus public relations projects and association with professional practitioners. The Department also encourages internships and practicums.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 114	Intro. to American Gov't & Politics	-	3
*GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
*GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
*SPCM 281	Introduction to Public Relations	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEC 200	Intro to Oral Interpretation (recommended)	-	3
GED 107	Intermediate Algebra	3	-
GEE 201	Healthful Living	2	-
GEB or GEC		-	3
*JRNL 300	Mass Media in Modern Society	-	3
*PSYC 307	Social Psychology	3	-
*R&T 200	Understanding Radio and Television	-	3
*SPCM 280	Business & Professional Communication	3	-
*SPCM 326	Persuasion	-	3
GEE	Activity	2	-
		<u>16</u>	<u>15</u>

\*Departmental requirements.

<sup>1</sup>Refer to section General Education for the Transfer Student

NOTE: Students must demonstrate proficiency in typing at least 30 words per minute.

**Public Relations (Speech Communication) As A Major**

The public relations specialization is an interdisciplinary program with a focus on communication studies designed with the assistance of and approved by the Public Relations Society of America. The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

**Representative First Job Titles:** Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer, Account Executive, and Legislative Assistant.

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Students who desire a B.A. instead of a B.S. degree take the same speech communication courses as students in the Communication Arts and Studies specialization, as well as the supplemental requirements of the College of Liberal Arts.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB	Social Science (select) <sup>1</sup>	3	3
GEC	Humanities (select) <sup>1</sup>	-	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GED	Math (select) <sup>1</sup>	-	3-4
GEE	Human Health and Well Being (select) <sup>1</sup>	2	2
Elective <sup>2</sup>		2	-
		<u>16</u>	<u>14-15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	-	3
GEC 200	Oral Interpretation of Literature	3	-
FL	Foreign Language <sup>4</sup>	4	4
MATH or CS	Math or Computer Science <sup>5</sup>	3	-
SPCM 221	Advanced Public Speaking <sup>3</sup>	3	-
SPCM 261	Small Group Communication	-	3
Electives <sup>2</sup>		-	3
		<u>16</u>	<u>16</u>

\*This is not a professional concentration, but a liberal arts concentration. See also the programs under the College of Communications and Fine Arts and the College of Education.

<sup>1</sup>To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Education for the Transfer Student.

<sup>2</sup>Elective hours should be used to explore areas of interest and to enhance career opportunities; or courses may be selected to satisfy Liberal Arts requirements (see College of Liberal Arts section).

<sup>3</sup>Required by the major.

<sup>4</sup>Two semesters (which is generally eight hours) of a foreign language are required for all Liberal Arts students who entered college Fall 1978 or later. However, four of these hours may be used for GEC credit.

<sup>5</sup>One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college Fall 1978 or later.

Representative First Job Titles: Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer.



## THEATER

(Acting-Directing)  
(Design-Technical)  
College of Communications and Fine Arts  
(Bachelor of Arts)

Lori Sefton, Advisement  
Telephone - 618-453-1895  
Communications Building, Room 2019

The Department of Theater blends scholarship and practice into an academically based theater experience preparing the student for a career in professional, educational or community theater, as well as establishing a solid academic foundation for many complementary fields. The extensive production schedule in two theaters--a proscenium house, the McLeod Theater, seating 580 and a flexible Laboratory Theater seating about 100--provides training in all aspects of theater, augmented by courses in acting, voice, movement, directing, playwriting, design and technical theater. Courses in theater history, dramatic theory and criticism and specialized courses, e.g., children's theater and theater management, complement the program. The production schedule is extensive enough to allow students the opportunity to design sets, lights, costumes, and to write, act and direct for these productions. Seminars in international and ethnic theater and drama coordinated with on-going research projects and visits of artists-in-residence enhance the total experience.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	-	3
GEB	Social Studies (select)	3	-
GEC	Humanities (select)	-	3
GEC 103	Introduction to Theater	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Public Speaking or Interpersonal Communication	3	-
THEA 218a	Stagecraft: Scenery	3	-
THEA 217	Beginning Acting	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
GEB	Social Studies (select)	3	3
GEC	Humanities (select)	-	3
GEA/B/or C	(select)	3	-
GEE	(select) <sup>1</sup>	2	2
THEA 205	Stage Make-up	-	2
THEA 218b,c	Stagecraft: Lighting, Costumes	3	-
THEA 300	Production	1	1
THEA	Theater Elective	-	3
		<u>15</u>	<u>17</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

### Theater As A Major

No minor is required. The Department of Theater also offers the M.F.A. degree with specializations in design and playwriting. Doctoral studies in theater are sponsored by the Department of Speech Communication.

During the academic year, four productions (three plays, one opera, or musical) are performed in the McLeod Theater and numerous original one-act plays and other shows are produced in the Laboratory Theater.

Each summer, a resident stock company produces one play and two musicals in the McLeod Theater and members of the Playwrights' Workshop produces four original plays in the Laboratory Theater.

The heavy production schedule provides many opportunities for practical experience in all aspects of theater.

Scholarships are available.

Representative First Job Titles: Costume Designer, Sound Effect Technician, Theater Drafting Technician, Sales (Corporate), Lighting Effect Technician, Scenery Technician, Costume Technician, Performing Artist, Choreographer (Dance Composer), Makeup Specialist, Actor/Actress, Publicist, Theater Instructor, Travel Coordinator, Scene Designer, Playwright.

**TOOL AND MANUFACTURING TECHNOLOGY**  
(Machine Tool--Numerical Control)  
College of Technical Careers  
(Associate in Applied Science)

Philip Tregoning  
Program Coordinator  
Telephone - 618-453-4024  
Carterville Campus

This specialization offers students extensive experience in a well-equipped machine shop with the training necessary to set up and operate engine lathes, turret lathes, mills, grinders, cut-off saws, and drilling machines. The students will enhance the basic tool room and production skills learned by applying their skills to produce various forms of shop tooling, jigs, fixtures, blanking dies, progressive dies, form dies, compound dies, and produce specialized obsolete parts. Hands-on experience on numerical controlled machines, electrical discharge machines, computer aided mills, and computer aided lathes is a vital part of the training. In addition to machining skills, students learn to read blueprints, select material, layout and plan machining operations, use precision measuring tools, do basic heat treat operations on steel, design and test industrial type of electric, hydraulic, and pneumatic power circuits, and use the machinery handbook. General education courses such as mathematics, physics, speech, and English will also be studied. In this two-year program, a student receives approximately 1250 hours of practice in laboratories equipped with machines used in industry.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science Elective	-	3
GED 101	English Composition	-	3
TC 105a,b	Technical Mathematics	4	-
TT 101	Basic Tool and Manufacturing Lab	6	-
TT 102	Milling Machine and Grinding Lab	-	6
TT 125	Introduction to Machine Tools	3	-
TT 126	Machinability of Metals, Milling, and Abrasive Machining	-	3
TT 185	Technical Sketching	3	-
TT 186	Jigs and Fixture Design	-	4
		<u>16</u>	<u>19</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GED	Communication Elective (Technical Writing or Speech)	-	2
TC 107a,b	Applied Physics	4	-
TT 208	Computer Assisted NC Programming	4	-
TT 210	Numerical Control, Electrical Discharge Machines	7	-
TT 211	Advanced Numerical Control, Tool and Die, and Production Machining	-	7
TT 220	Numerical Control, Inspection Practices, and EDM	3	-
TT 221	Tool and Die, Production Machining, & Process Planning	-	3
TT 225	Principles & Processes in Modern Manufacturing	-	2
TT 275	Ferrous Metallurgy	2	-
TT 276	Tool Steel Metallurgy	1	2
		<u>21</u>	<u>16</u>

**Tool And Manufacturing Technology As A Major**

This program offers students the opportunity to develop their technical capabilities on a variety of modern machine tools, computer-aided machines, state of the art welding processes, and testing equipment. The faculty members have broad experience in education and industry. Tool and manufacturing technology majors are offered a choice of three specializations: Machine Tool (Numerical Control), Metal Fabrication and Processes, and Tool Design. The successful graduate of the program may work as a tool and manufacturing technician who functions in the industrial area between the mechanical and manufacturing engineering and the skilled craftsperson. The technician has the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give him/her the abilities of a tool maker, machinist, welder, or tool designer. The technician may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, dies or operate and supervise operation of machine tools and fabricating equipment. Students spend about \$100 for tools, instruments and supplies. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers. The curriculum is designed to accept both beginning freshmen and transfer students. By proficiency, it is possible to earn credit for previous industrial experience.

**Bachelor of Science Degree Options at SIUC**

Graduates of the Associate in Applied Science degree program in Tool and Manufacturing Technology have options in bachelor's degree programs that add to the associate degree specialization. These include Advanced Technical Studies in the College of Technical Careers, Industrial Technology, and Vocational Education Studies. Students pursuing these degrees will have an opportunity to add to their associate degree specialization.

**Representative First Job Titles:** Tool Maker, Laboratory Technician, Mold Maker, Tool Designer, Instrument Maker, Machine Builder, Welder, Die Maker, Inspector, CNC Programmer, NC Programmer, Shop Foreman, Process Planner, Model Maker, Production Supervisor, Testing Technician, Shop Owner, Fabrication Technician, Machinist, Certified Pipe Welder, Tool Technician, and Material Testing Technician.

## TOOL AND MANUFACTURING TECHNOLOGY

(Metal Fabrication and Processes)

College of Technical Careers

(Associate in Applied Science)

Philip Tregoning

Program Coordinator

Telephone - 618-453-4024

Carterville Campus

This specialization combines machine shop training with training in welding and fabrication. The machine shop classes will equip the student with the skills necessary to set up and operate lathes, shapers, mills, grinders, cutoff saws, and drilling machines. The welding classes will provide adequate laboratory time for the student to develop skills in many industrial welding and cutting processes including oxy acetylene, shielded metal arc, gas metal arc, gas tungsten arc, cored wire, and submerged arc welding, oxy-acetylene cutting, air carbon arc cutting, and plasma arc cutting. In addition to welding and machining skills, students learn to read blueprints, select materials, layout and cost estimating, use precision and nonprecision tools, do basic heat treat operations, and perform destructive and nondestructive weld tests. General education courses such as mathematics, physics, speech, and English will also be studied. In this two-year program, a student receives approximately 1250 hours of practice in laboratories equipped with machines tools, welding equipment and testing equipment used in industry.

### First Year

		<u>Fall</u>	<u>Spring</u>
GED 101	English Composition	-	3
TC 105a,b	Technical Mathematics	-	4
TT 101	Basic Tool and Manufacturing Lab	6	-
TT 102	Milling Machine and Grinding Lab	-	6
TT 125	Introduction to Machine Tools	3	-
TT 126	Machinability of Metals, Milling, and Machining	-	3
TT 180, 181	Welding I and II	3	3
TT 185	Technical Sketching	3	-
		<u>15</u>	<u>19</u>

### Second Year

		<u>Fall</u>	<u>Spring</u>
GEB	Social Science Elective	-	3
GED	Communication Elective (Technical Writing or Speech)	-	2
TC 107a,b	Applied Physics	4	-
TT 182	Welding III	3	-
TT 183	Welding Blueprint Reading	2	-
TT 225	Principles & Processes in Modern Manufacturing	-	2
TT 275, 276	Ferrous and Tool Steel Metallurgy	2	2
TT 310	Welder Qualification	6	6
		<u>17</u>	<u>15</u>

### Tool And Manufacturing Technology As A Major

This program offers students the opportunity to develop their technical capabilities on a variety of modern machine tools, computer-aided machines, state of the art welding processes, and testing equipment. The faculty members have broad experience in education and industry. Tool and manufacturing technology majors are offered a choice of three specializations: Machine Tool (Numerical Control), Metal Fabrication and Processes, and Tool Design. The successful graduate of the program may work as a tool and manufacturing technician who functions in the industrial area between the mechanical and manufacturing engineering and the skilled craftsman. The technician has the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give him/her the abilities of a tool maker, machinist, welder, or tool designer. The technician may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, dies or operate and supervise operation of machine tools and fabricating equipment. Students spend about \$100 for tools, instruments and supplies. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers. The curriculum is designed to accept both beginning freshmen and transfer students. By proficiency, it is possible to earn credit for previous industrial experience.

### Bachelor of Science Degree Options at SIUC

Graduates of the Associate in Applied Science degree program in Tool and Manufacturing Technology have options in bachelor's degree programs that add to the associate degree specialization. These include Advanced Technical Studies in the College of Technical Careers, Industrial Technology, and Vocational Education Studies. Students pursuing these degrees will have an opportunity to add to their associate degree specialization.

Representative First Job Titles: Tool Maker, Laboratory Technician, Mold Maker, Tool Designer, Instrument Maker, Machine Builder, Welder, Die Maker, Inspector, CNC Programmer, NC Programmer, Shop Foreman, Process Planner, Model Maker, Production Supervisor, Testing Technician, Shop Owner, Fabrication Technician, Machinist, Certified Pipe Welder, Tool Technician, and Material Testing Technician.



## TOOL AND MANUFACTURING TECHNOLOGY

(Tool Design)

College of Technical Careers  
(Associate in Applied Science)

Philip Tregoning  
Program Coordinator  
Telephone - 618-453-4024  
Carterville Campus

This specialization is unique in that it equips the tool design student with basic machining and welding skills so that he/she is better able to design tools, dies, jigs, and fixtures that incorporate the most practical and economical production processes. The student also studies product drafting and design. He/she learns to be accurate and detailed in his/her work; to become familiar with applications of American National Standard Institute drawing standards; to become competent in detailing in tool, die, and mold design. Students will also receive coursework in computer aided design. General education courses such as mathematics, physics, speech, and English will also be studied. In this two-year program, a student receives approximately 1250 hours of practice in laboratories equipped with machines tools, welding equipment, drafting equipment and computer aided design equipment.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Science Elective	-	3
GED 101	English Composition	-	3
TC 105a,b	Technical Mathematics	4	-
TT 101	Basic Tool and Manufacturing Lab	6	-
TT 102	Milling Machine and Grinding Lab	-	6
TT 125	Introduction to Machine Tools	3	-
TT 126	Machinability of Metals, Milling, and Abrasive Machining	-	3
TT 180	Welding I	-	3
TT 185	Technical Sketching	3	-
TT 186	Jig and Fixture Design	-	4
		<u>16</u>	<u>22</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GED	Communication Elective (Technical Writing or Speech)	-	3
TC 107a,b	Applied Physics	4	-
TT 181	Welding II	3	-
TT 208	Numerical Control Programming	4	-
TT 225	Principles & Processes in Modern Manufacturing	-	2
TT 230	Tool Design I	7	-
TT 231	Tool Design II	-	7
TT 240	Jig, Fixture, Gage Design Theory (elective)	-	-
TT 241	Die Design Theory	-	3
TT 275	Ferrous Metallurgy	2	-
TT 276	Tool Steel Metallurgy	-	2
		<u>20</u>	<u>17</u>

### Tool And Manufacturing Technology As A Major

This program offers students the opportunity to develop their technical capabilities on a variety of modern machine tools, computer-aided machines, state of the art welding processes, and testing equipment. The faculty members have broad experience in education and industry. Tool and manufacturing technology majors are offered a choice of three specializations: Machine Tool (Numerical Control), Metal Fabrication and Processes, and Tool Design. The successful graduate of the program may work as a tool and manufacturing technician who functions in the industrial area between the mechanical and manufacturing engineering and the skilled craftsperson. The technician has the technical background required to work with engineers in research, development and testing, plus the skills in metal cutting and fabrication that give him/her the abilities of a tool maker, machinist, welder, or tool designer. The technician may run tests on experimental equipment and material, alter and fabricate pilot models of equipment, build jigs, fixtures, dies or operate and supervise operation of machine tools and fabricating equipment. Students spend about \$100 for tools, instruments and supplies. A student chapter of the Society of Manufacturing Engineers gives its members an early start in the development of their careers. The curriculum is designed to accept both beginning freshmen and transfer students. By proficiency, it is possible to earn credit for previous industrial experience.

### Bachelor of Science Degree Options at SIUC

Graduates of the Associate in Applied Science degree program in Tool and Manufacturing Technology have options in bachelor's degree programs that add to the associate degree specialization. These include Advanced Technical Studies in the College of Technical Careers, Industrial Technology, and Vocational Education Studies. Students pursuing these degrees will have an opportunity to add to their associate degree specialization.

Representative First Job Titles: Tool Maker, Laboratory Technician, Mold Maker, Tool Designer, Instrument Maker, Machine Builder, Welder, Die Maker, Inspector, CNC Programmer, NC Programmer, Shop Foreman, Process Planner, Model Maker, Production Supervisor, Testing Technician, Shop Owner, Fabrication Technician, Machinist, Certified Pipe Welder, Tool Technician, and Material Testing Technician.



The University Studies Baccalaureate Program is a degree program for students who are interested in designing a multi-disciplinary, interdisciplinary program of study.

In University Studies, the student can pursue either a Bachelor of Arts or a Bachelor of Science degree. The Bachelor of Arts requires passing one full year of a foreign language through coursework or proficiency examination.

Since the University Studies Program does not have an established curriculum, students use the resources of the entire University. For example, a person interested in arts management may combine fine arts courses with others in or related to business thereby gaining the necessary skills to manage a civic center or theater. A person wishing to attend law school might elect to combine political science, philosophy, history and business courses in preparation for the study of law. Other students opt to pursue a broad range of courses to complete the degree program.

To be admitted to the program, the student must have:

1. At least 24 semester hours passed.
2. No more than 90 semester hours passed.
3. A 2.25 grade point average (4.0 scale) in all college work taken.

To complete the program, the student must pass 40 semester hours at the senior level (300-400) with a 2.0 grade point average (4.0 scale) in those courses.

A student cannot exceed the program's prescribed limits on distribution of courses, either at entry or while in the program:

1. No more than 20 semester hours may be taken in any department or school within a college, over and above General Education requirements.
2. No more than 40 semester hours, in addition to General Education requirements, may be taken in any SIUC college or its equivalent in an institution from which the student has transferred. The following is the only exception:
3. In the College of Liberal Arts, as many as 27 semester hours may be taken from the Social Sciences area and 27 semester hours from the Humanities area.

A general model of a curriculum for a degree in University Studies might be:

1. General Education	46 sem. hrs.
2. Senior level courses (300-400)	40 sem. hrs.
3. Foreign language	8 sem. hrs. (for the B.A. only)
4. Other courses at any level	<u>26 sem. hrs.</u> (35 for the B.S.)
TOTAL	120 sem. hrs.

After admission to the University as an undecided student or in a major, a student interested in the University Studies Program should arrange an interview with a College of Liberal Arts Advisor to determine eligibility. If criteria are met, the student can then be admitted to the program.

# VOCATIONAL EDUCATION STUDIES

Business Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Marcia Anderson-Yates  
Coordinator  
Telephone - 618-453-3321  
Rehn Hall 113

Students admitted to the Undergraduate Teacher Education program in Business Education may select one of the following teaching areas: office education, accounting, data processing, general business/consumer education, and marketing. Two supplemental areas are also required.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Activity Course	2	-
GEB 114	American Government & Politics	3	3
		<u>17</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 211 or ECON 214	Contemporary Economics Introduction to Macroeconomics	3	-
GEB 301	U.S. History <sup>1</sup>	-	3
GEC	English Elective in Humanities (select) <sup>1</sup>	3	-
GEE 201	Healthful Living	2	-
SCR 101a	Keyboarding	3	-
VES 302	Communication in Business	-	3
ACCT 220	Accounting I	3	-
VES 306	Introduction to Data Processing	-	3
GE	Electives	-	4
		<u>17</u>	<u>16</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

## Business Education As A Major

The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 211, Contemporary Economics; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 152 or 153, Speech; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

Major Core Requirements: Accounting 220, Economics 214 or GEB 211 (see above), Marketing 304, Secretarial and Office Specialties 101 a and b, Vocational Education Studies 302, 306 and 310.

## VOCATIONAL EDUCATION STUDIES

Education, Training and Development Specialization  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. John Washburn, Chair  
Vocational Education  
Telephone - 618-453-3321  
Wham Building, Room 146

Corporations spend billions of dollars each year to train employees and develop their management staffs. Non-business organizations, charitable organizations, schools, and universities are rapidly recognizing the need for trainers. Graduates of our programs have been employed by public and private organizations to take the lead in establishing training programs for vocational, technical, and professional staff.

The Education, Training and Development specialization prepares technically-trained persons for training and development positions in education, business, industry, labor, government and the military. Added to the student's technical training are general education courses in science, social science, humanities, communications, and professional or technical specialty. The student also will carry out work experiences, or internships, tailored to their specific career goals.

This specialization is not a certification program for teaching at the secondary level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select)	3	3
GEB	Social Science (select) <sup>1</sup>	3	
GEB	Electives	-	3
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE 201	Healthful Living	-	2
GEE	Human Health and Well Being - Activity	2	-
Elective		<u>2</u>	<u>2</u>
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB	Social Science (select) <sup>1</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	-
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Comm. or Public Speaking	3	-
GEA, B or C	Electives <sup>1</sup>	<u>3</u>	<u>6</u>
		15	12

<sup>1</sup> Refer to the section General Education for the Transfer Student.

Refer to the Undergraduate Catalog for specific major requirements.

Special Note to Community College Personnel: The programs in education, training, and development and secondary school industrial education teaching and health occupations teaching require the equivalent of an associate degree in a technical specialty for admission. Transfer students who have completed a two-year associate in applied science (A.A.S.) degree program may qualify for our Capstone Program, in which the student makes a contract with SIUC and the Department of Vocational Education Studies that will give the student maximum credit for transfer work and guarantee the student's graduation with the completion of no more than 60 additional semester hours of work. Credit hours may also be awarded for work experience and for other post-secondary vocational training and coursework.

**VOCATIONAL EDUCATION STUDIES**  
**Health Occupations Education Specialization**  
**(Teacher Certification)**  
**College of Education**  
**(Bachelor of Science)**

Jacquelyn Bailey  
 Chief Academic Advisor  
 Teacher Education Services  
 Telephone - 618-453-2354  
 Wham Building, Room 135

Dr. Richard Bortz  
 Coordinator  
 Telephone - 618-453-3321  
 Faner Hall 4435

This specialization prepares persons with allied health and nursing specialty backgrounds for teaching health occupations in secondary schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
GED 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEE	Physical Activity	2	-
GE	Electives <sup>1</sup>	2	4
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 114	American Government	-	3
GEB 301	U.S. History	3	-
GEC	English Elective in Humanities (select) <sup>1</sup>	3	-
GEE 201	Healthful Living	-	2
GE or VES	Electives <sup>1</sup>	6	6
		<u>15</u>	<u>14</u>

<sup>1</sup>Refer to the section General Education for the Transfer Student.

**Health Occupations Education As A Major**

The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 152, Interpersonal Communication or GED 153, Public Speaking; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.



### VOCATIONAL EDUCATION STUDIES

Home Economics Education Specialization  
(Educational Services)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Phyllis Bubnas, Coordinator  
Telephone - 618-453-3321  
Baptist Student Center, Room 131

Home Economics today is concerned with human development, parenting, interpersonal relations, values, resource management, nutrition, and consumerism. Home economists are found not only in kitchens, nutrition labs, the fashion industry, and small specialty boutiques, but also in business and government offices, in juvenile services and programs for abused children, in community health agencies, and in public and private organizations that work to improve the quality of life.

This program prepares students for positions in agencies and businesses that develop informational materials, demonstrate products, coordinate conferences, and work with individual customers or clients. Graduates of this specialization move into business-related and communication careers that combine a knowledge of home economics with teaching skills. They may work in product development kitchens and laboratories of food companies, in consumer information offices, and in advertising or publicity departments for the promotion of products; as writers and educators of educational materials or as free-lance consultants.

Teacher certification is not required for this specialization.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 114 or 211	American Government and Politics or Contemporary Economics <sup>2</sup>	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GEC 101	Introduction to Art <sup>2</sup>	-	3
GED 101	English Composition	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GEE	Human Health and Well Being (select) <sup>1</sup>	-	2
GEE 107 or 201			
or 236	Human Health and Well Being (Activity) <sup>1</sup>	2	-
GE	Electives	-	3
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	-
GEB 108	The Sociological Perspective <sup>2</sup>	-	3
GEB 202	Introduction to Psychology <sup>2</sup>	3	-
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
CI 227	Marriage and Family Living	-	3
Electives		6	6
		<u>15</u>	<u>15</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> Required by the major.

### Home Economics Education As A Major

A minor is not required. Foreign language is not required.

Graduate degrees available.

**VOCATIONAL EDUCATION STUDIES**  
Home Economics Education Specialization  
(Home Economics Extension)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Phyllis Bubnas, Coordinator  
Telephone - 618-453-3321  
Baptist Student Center, Room 131

Home Economics today is concerned with human development, parenting, interpersonal relations, values, resource management, nutrition, and consumerism. Home economists are found not only in kitchens, nutrition labs, the fashion industry, and small specialty boutiques, but also in business and government offices, in juvenile services and programs for abused children, in community health agencies, and in public and private organizations that work to improve the quality of life.

This program is designed to prepare persons for positions as Home Advisors, 4-H Club Agents or Advisors, and, with further training, extension specialists.

Extension develops youth-oriented projects, helps rural and urban families find solutions to everyday problems, and helps its clients to improve the quality of their lives. The extension home economist develops programs in a county, works with a variety of people and groups, provides home economics information by speaking to groups, appearing on radio and television and writing newspaper articles and newsletters, and conducts youth activity programs (4-H).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 108	The Sociological Perspective	3	-
GEB 114	American Government & Politics	-	3
GEC	Humanities (select)	3	-
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	3	-
CHEM 140a	Chemistry <sup>2</sup>	-	4
F&N 215	Introduction to Nutrition	2	-
VES 320	Home Economics As A Profession	1	-
VES 338a	Clothing Construction	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 153	Public Speaking	3	-
GEE 201	Healthful Living	-	2
GEE	Activity	-	2
CI 227	Marriage and Family Living	3	-
CI 237	Child Development	-	3
F&N 256	Science of Food	5	-
VES 336	Survey of Clothing	-	3
		<u>17</u>	<u>16</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

<sup>2</sup> Approved substitute for General Education.

Refer to the Undergraduate Catalog for departmental requirements and requirements taught via General Education.

**Home Economics Education As A Major**

The following specific General Education courses are required for teacher certification: GEB 202, GEB 114, GEB 301, GED 101, 102, 153, GEE 201 and one additional English course (GEC, GED or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

No minor is required. No foreign language required.

Child Development practicum in Nursery school; Home Management practicum; Field experiences with a Home Economics Extension advisor are available.

Graduate degrees available.

## VOCATIONAL EDUCATION STUDIES

Home Economics Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Phyllis Bubnas, Coordinator  
Telephone - 618-453-3321  
Baptist Student Center, Room 131

Home Economics today is concerned with human development, parenting, interpersonal relations, values, resource management, nutrition, and consumerism. Home economists are found not only in kitchens, nutrition labs, the fashion industry, and small specialty boutiques, but also in business and government offices, in juvenile services and programs for abused children, in community health agencies, and in public and private organizations that work to improve the quality of life.

This program is designed to meet the needs of students desiring to teach home economics in school departments maintained according to the provisions of the federal vocational acts. A vocational home economics certificate requires a bachelor's degree in home economics from an institution and in a course of study approved for teacher training by the Vocational Division of the United States Office of Education and by the State Board for Vocational Education and Rehabilitation. SIUC is so approved for training home economics teachers.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 108	The Sociological Perspective	3	-
GEC	Humanities (select) <sup>3</sup>	3	3
GED 101	English Composition <sup>1</sup>	3	-
GED 102	English Composition II <sup>1</sup>	-	3
GED 107	Intermediate Algebra	3	-
GED 153	Public Speaking <sup>1</sup>	-	3
GEE 201	Healthful Living <sup>1</sup>	-	2
CHEM 140a	Chemistry <sup>2</sup>	-	4
F&N 215	Introduction to Nutrition	2	-
VES 338	Clothing Construction	-	3
		<u>14</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>3</sup>	3	3
GEB 114	American Government & Politics <sup>1</sup>	-	3
GEB 202	Introduction to Psychology <sup>1</sup>	3	-
GEC	English Elective in Humanities (select) <sup>1</sup>	-	3
GEE	Physical Activity	-	2
CI 237	Early Child Development I	-	3
CI 227	Marriage and Family Living	3	-
CEFM 340	Consumer Problems	-	3
F&N 256	Science of Food	5	-
VES 320	Home Economics as a Profession	1	-
		<u>15</u>	<u>17</u>

<sup>1</sup>The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, U.S. History; GED 101, English Composition; GED 102, English Composition II; GED 152 or 153, Speech; GEE 201, Healthful Living; and one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

<sup>2</sup>Substitutes for GEA 106, Chemistry for Non-Science Majors.

<sup>3</sup>Refer to section General Education for the Transfer Student.

## Home Economics Education As A Major

No minor required. No foreign language required.

Child Development practicum in nursery school; home management practicum; supervised student teaching in an area high school; field experience with a home economics extension advisor are available.

Graduate degrees available.

## VOCATIONAL EDUCATION STUDIES

Industrial Education Specialization  
(Teacher Certification)  
College of Education  
(Bachelor of Science)

Jacquelyn Bailey  
Chief Academic Advisor  
Teacher Education Services  
Telephone - 618-453-2354  
Wham Building, Room 135

Dr. Richard Bortz  
Coordinator  
Telephone - 618-453-3321  
Faner Hall

Industrial Education Teaching concerns specialized instruction in a wide variety of vocational-technical occupations including industrial oriented, and other occupations.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	-	3
GEB 202	Introduction to Psychology	3	-
GEC	Humanities (select) <sup>1</sup>	3	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
GED 107	Intermediate Algebra	-	3
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Physical Activity	2	-
GEB 301	American History	-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEA	Science (select) <sup>1</sup>	3	3
GEB 114	American Government	-	3
GEB 211	Contemporary Economics	3	-
GEC 122	Literature	3	-
GEE 201	Healthful Living	2	-
GEC 213	East Asian Civilization	-	3
GE	Electives	5	6
		<u>16</u>	<u>15</u>

<sup>1</sup> Refer to the section General Education for the Transfer Student.

### Industrial Education Teaching As A Major

The following specific General Education courses are required for teacher certification: GEB 202, Introduction to Psychology; GEB 211, Contemporary Economics; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 152 or 153, Speech; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental). At least one three semester hour course must be taken in non-western or third world cultures from either Humanities or Social Science (GEC 213). Science course selection must include one laboratory class.

Special Note to Community College Personnel: The programs in education, training and development and secondary school industrial education and health occupations teaching require the equivalent of an associate degree in a technical specialty for admission.



A curriculum developed in zoology provides one with a knowledge of animals, their biology and conservation. The 22 faculty members of the Department of Zoology represent a wide range of these professional zoological disciplines. A wide variety of courses is offered in the biologically rich and diverse environment of Southern Illinois with excellent study facilities in a new \$11 million life science building equipped with specialized laboratories, computer facilities, research museum, and animal quarters. Associated are the Cooperative Fisheries and Wildlife Laboratories which make important contributions to the education of many undergraduates.

The department's faculty and graduate students provide personal opportunities for student introduction to interesting specialties. This is augmented by the unique INDIVIDUALIZED CURRICULUM prepared for each student majoring in zoology. Arrangements are made through the Director of Undergraduate Studies for each student to select a faculty advisor to plan with him or her a specific program of courses in zoology and supporting areas (usually other biological sciences, math and chemistry).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 114	Introduction to American Government <sup>3</sup>	-	3
GED 101	English Composition <sup>3</sup>	3	-
GED 102	English Composition II <sup>3</sup>	-	3
GEE	P.E. Activity <sup>2</sup>	1	-
GEE 201	Healthful Living <sup>3</sup>	-	2
*CHEM 222a,b	Introduction to Chemical Principles & Lab	4	4
*MATH 111	Pre-Calculus	5	-
ZOOL 220a,b	Diversity of Animal Life	4	4
		<u>17</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB 202	Introduction to Psychology <sup>3</sup>	3	-
GEB 301	U.S. History <sup>2</sup>	-	3
GEC	English Elective in Humanities (select) <sup>2,3</sup>	3	-
GEC	Humanities (select) <sup>2</sup>	3	3
GED 153	Public Speaking <sup>3</sup>	-	3
GEE	P.E. Activity	1	-
BOT 200	General Botany	-	4
*BIOL 307	Environmental Biology	3	-
ZOOL 300	Vertebrate Embryology	4	-
ZOOL or	Botany Electives	-	4
		<u>17</u>	<u>17</u>

\*Approved substitute for GED Math.

\*\*Approved substitutes for GEA.

<sup>1</sup> Should also have a minor in Botany. See also the program under the College of Science.

<sup>2</sup> Refer to the section General Education for the Transfer Student.

<sup>3</sup> The following are required courses for certification: GEB 202, Introduction to Psychology; GEB 114, Introduction to American Government and Politics; GEB 301, History of the United States; GED 101, English Composition; GED 102, English Composition II; GED 153, Public Speaking; GEE 201, Healthful Living; one additional English course (GEC, GED, or departmental); Math 111 or Pre-Calculus or 108, 109 College Algebra and Trigonometry. Science courses must include one laboratory course. A three semester hour course in non-western or third world cultures must be taken from Humanities or Social Science (GEC 213).

#### Zoology As A Major

Students pursuing a Bachelor of Science in Education are not required to complete a foreign language.

Refer to the Undergraduate Catalog for specific major requirements.

## ZOOLOGY

College of Science  
(Bachelor of Arts)  
(Bachelor of Science)

Dr. DuWayne C. Englert  
Dir. of Undergraduate Studies  
Telephone - 618-536-2314  
Life Science II, 351 or 355F

The zoology curriculum provides the student with a knowledge of animals, their biology and their conservation. The 25 faculty members of the Department of Zoology represent a wide range of professional zoological disciplines. A wide variety of courses is offered in the biologically rich and diverse environment of Southern Illinois. Our excellent study facilities in Life Science II are equipped with specialized laboratories, computer facilities, research museum, and animal quarters. Associated with the department are the Cooperative Fisheries and Wildlife Research Laboratories which make important contributions to the education of many undergraduates.

The department's faculty and graduate students provide personal opportunities for student introduction to interesting specialties. This is augmented by the unique INDIVIDUALIZED CURRICULUM prepared for each student majoring in zoology. Arrangements are made through the Director of Undergraduate Studies for each student to select a faculty advisor to plan with him or her the specific program of courses in zoology and supporting areas (usually other biological sciences, math and chemistry).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEA 118	Introductory Zoology <sup>2</sup>	4	-
GEB	Social Studies (select)	3	-
GEC	Humanities (select)	-	3
GED 101	English Composition	3	-
GED 102	English Composition II	-	3
Elective or			
CHEM 115	Introductory General Chemistry <sup>1,2,4</sup>	3	-
CHEM 222a	Introduction to Chemical Principles <sup>1,2,4</sup>	-	4
MATH 108,109	College Algebra and Trigonometry <sup>1,2,3</sup>	3	3
ZOOL 220a	Diversity of Animal Life (invertebrate) <sup>1,2</sup>	-	4
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GEB	Social Studies (select)	-	3
GEC	Humanities (select)	2	-
GED 152 or 153	Interpersonal Communication or Public Speaking	3	-
GEE	Human Health and Well Being (select)	-	1
BIOL 307	Environmental Biology <sup>1,2</sup>	-	3
CHEM 222b	Introduction to Chemical Principles <sup>2,4</sup>	4	-
FL	Foreign Language <sup>1,2</sup>	4	4
MATH 140 or 150	Calculus <sup>5</sup>	-	4
ZOOL 220b	Diversity of Animal Life (vertebrate) <sup>1</sup>	4	-
		<u>17</u>	<u>15</u>

<sup>1</sup> Approved substitutes for General Education.

<sup>2</sup> The College of Science requires one year of any foreign language, one year of math, six semester hours of physical sciences, and 6 semester hours of biological sciences.

<sup>3</sup> GED 107 or 1 1/2 years of high school algebra is a prerequisite to Math 108 and 111.

<sup>4</sup> CHEM 115 is for students who have less than one year of high school chemistry. CHEM 222a,b will satisfy Zoology Department requirements for basic chemistry. For some students, CHEM 140a,b will be adequate.

<sup>5</sup> or Computer Science 200-3, 202-3, Math 282-3, 283-3, Botany 360-3 or Educational Psychology 402-3.

Zoology As A Major: Majors in zoology should consult with the Director of Undergraduate Studies in Zoology as soon as possible and arrange to develop an individualized curriculum under the supervision of a faculty advisor. The last two years of each individual's program concentrates on the completion of courses established for the requirements of the individual curriculum. A major in zoology is an appropriate beginning for anyone planning to specialize in teaching or research in the biological sciences and allied fields such as conservation, environmental protection, fisheries or wildlife management, dentistry, medicine, or veterinary medicine. Most positions are available in schools, local, state, and federal government agencies, museums, hospitals, and chemical, instrument, food and drug industries. Graduate degree programs leading to M.A., M.S., and Ph.D. are available.

Representative First Job Titles: Zoologist, Animal Breeding Technician, Animal Ecologist, Animal Husbandry Supervisor, Animal Taxonomist, Biological Warfare Technician, Genetics Technician, Medical Laboratory Assistant, Quality Control Laboratory Technician, Technical Library Operator, Entomologist, Physiologist, Wildlife Lab Assistant, Wildlife Refuge Manager, Parasitologist, Zoological Park Keeper, Mammalogist, Research Technician, Researcher, Reclamation Technician, Teacher, Technical Sales Representative.

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## VISITS TO CAMPUS

We welcome prospective students, their families, friends, and counselors to learn more about SIUC through various on-campus events. Activities on campus include Campus Visits, Group Visit Days, and Open Houses. SIUC Previews are held in several off-campus locations around Illinois each year.

Campus Visits are available by appointment Monday through Friday, 8:00 a.m. to 4:30 p.m.; to make best use of the visit, please plan to arrive by 2:00 p.m. Please make reservations approximately seven days in advance. Admissions Counselors are available to advise you about academic programs, student services, admission policies and procedures, housing options, financial aid and general information about the University and community. Guided tours of the campus are also available. Appointments with departmental representatives can be arranged with advance notice.

Group Visit Days are, quite simply, Campus Visits by groups of people. The same arrangements are available, but an advance reservation is a must.

Open Houses are held on campus four or five times per year. Activities include admissions counseling, departmental exhibits, displays by students organizations, presentations on financial aid and other student services, campus and departmental tours, and opportunities to enjoy other events or activities.

SIUC Previews are events held in locations from October through May to bring SIUC within easy traveling distance of nearly every Illinois community. Activities include admissions counseling, small group and individual sessions on financial aid, a dynamic audio-visual presentation entitled "SIUC Today: The Setting," consultation about University housing, and information displays on many other programs and services.

New Student Admission Services assists high schools and community colleges by providing representatives for college day and night programs, counseling prospective students, visiting schools and colleges on request, distributing university materials, and providing general assistance to counselors. Counselors should feel free to contact members of this staff anytime for reservations for Campus Visits and Group Visit Days or when information or materials are needed.

New Student Admission Services  
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Carbondale, IL 62901-4710  
800-642-3531 (toll free in Illinois)  
618-536-4405 (direct)

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Celeste Sullivan Baron	Counselor
Tammy Cavarretta	Counselor
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Since the Counselor's Advisement Catalog is a widely used publication by high school and community college counselors across the staff, we are continually updating the information to make it current and useful. Striving for excellence indicates there is always room for improvement. How would you like to see this publication change?

Our goal is to provide every counselor and academic advisor a personal copy. It is our hope the 1991-92 Counselor's Advisement Catalog continues to assist you in advising your students relative to their preparation and transition to Southern Illinois University at Carbondale.

Please discard all older editions of this publication. Should you need additional copies, please write or call and we will be more than happy to provide them.

Shelly Gimenez-McMillan, Editor









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