

1983

1983-1984 Southern Illinois University Bulletin Carbondale Campus (Counselor's Advisement Catalog)

Southern Illinois University Carbondale

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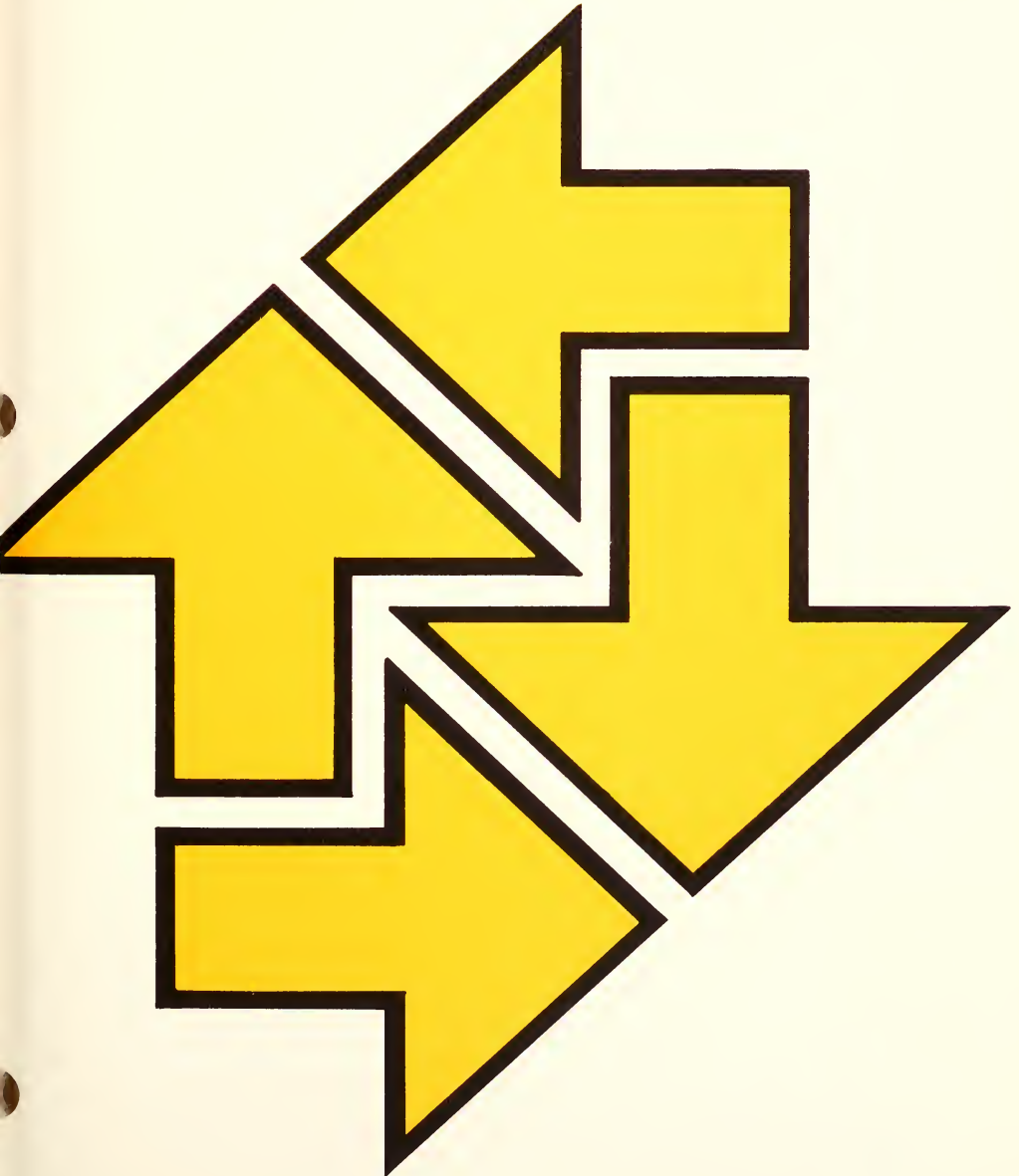
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Southern Illinois University
at Carbondale

Bulletin

1983-1984 *Counselor's Advisement Catalog*

SIU





Southern
Illinois
University
at Carbondale
Bulletin

1983-1984
Counselor's Advisement
Catalog

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

Volume 24 Number 2, July 1982

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Southern Illinois University
at Carbondale, Carbondale, Illinois
62901, five times per year in June, July,
August, September, and October.

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 104, telephone 536-6618.

SUGGESTIONS FOR USE
COUNSELOR'S ADVISEMENT CATALOG

Usually, this space is reserved for a statement of the editor's intentions for use of the Counselor's Advisement Catalog. For a change, I thought you'd like to hear how other counseling professionals use this book.

Most counselors, without question, do use the Counselor's Advisement Catalog to help prospective students interested in SIUC gain information regarding our programs, policies and procedures. In addition, the following suggestions have been offered:

- 1) to use the Counselor's Advisement Catalog in a career decision making class or seminar. The "Representative First Job Titles" for each major illustrate the practical applications of the degree, while the recommended courses illustrate what's involved in the major, as well as suggest recommended preparation;
- 2) to advise students intending to attend a community college or other institution prior to transferring to SIUC, as to the preferred preparation;
- 3) to photocopy a page or two for an individual student's use (fine by us!);
- 4) to aid in high school course registration, as illustration of what particular programs we'll expect beginning freshmen to take their first semester.

As always we remind you that

Small Changes Are The Most Important. We've made every attempt to present the most current information on policies, procedures, and course requirements. For this reason, PLEASE DISCARD ALL PREVIOUS ISSUES of the Counselors Advisement Catalog.

We would like to supply each counselor on your staff with a personal copy of the 1983-84 Counselor's Advisement Catalog. Just let us know how many additional copies are required, by contacting School/College Relations Division, Office of Admissions and Records, SIUC, Carbondale, Illinois 62901.

I am already mulling over ideas for the 1984-85 edition, and would welcome any suggestions or comments from you for adapting it to your needs.

Catherine Foster Walsh, Editor

OFFICE OF ADMISSIONS AND RECORDS
SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE
CARBONDALE, ILLINOIS 62901

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UNIVERSITY CALENDAR

Fall Semester 1982

Semester Classes Begin	Monday, August 23, 8:00 a.m.
Labor Day Holiday	Monday, September 6
Thanksgiving Vacation	Saturday, 12:00 noon-Monday, 8:00 a.m., November 20-29
Final Examinations	Monday-Friday, December 13-17

Spring Semester 1983

Semester Classes Begin	Monday, January 17, 8:00 a.m.
Lincoln's Birthday Holiday	Friday, February 11
Spring Vacation	Saturday, 12:00 noon-Monday, 8:00 a.m., March 12-21
Final Examinations	Monday-Friday, May 9-13
Commencement	Saturday, May 14

Summer Session 1983--Proposed

Session Classes Begin	Monday, June 13, 7:30 a.m.
Independence Day Holiday	Monday, July 4
Final Examinations	Thursday and Friday, August 4-5
Commencement	Saturday, August 6

Fall Semester 1983--Proposed

Semester Classes Begin	Monday, August 22, 8:00 a.m.
Labor Day Holiday	Monday, September 5
Thanksgiving Vacation	Saturday, 12:00 noon--Monday, 8:00 a.m., November 19-28
Final Examinations	Monday-Friday, December 12-16

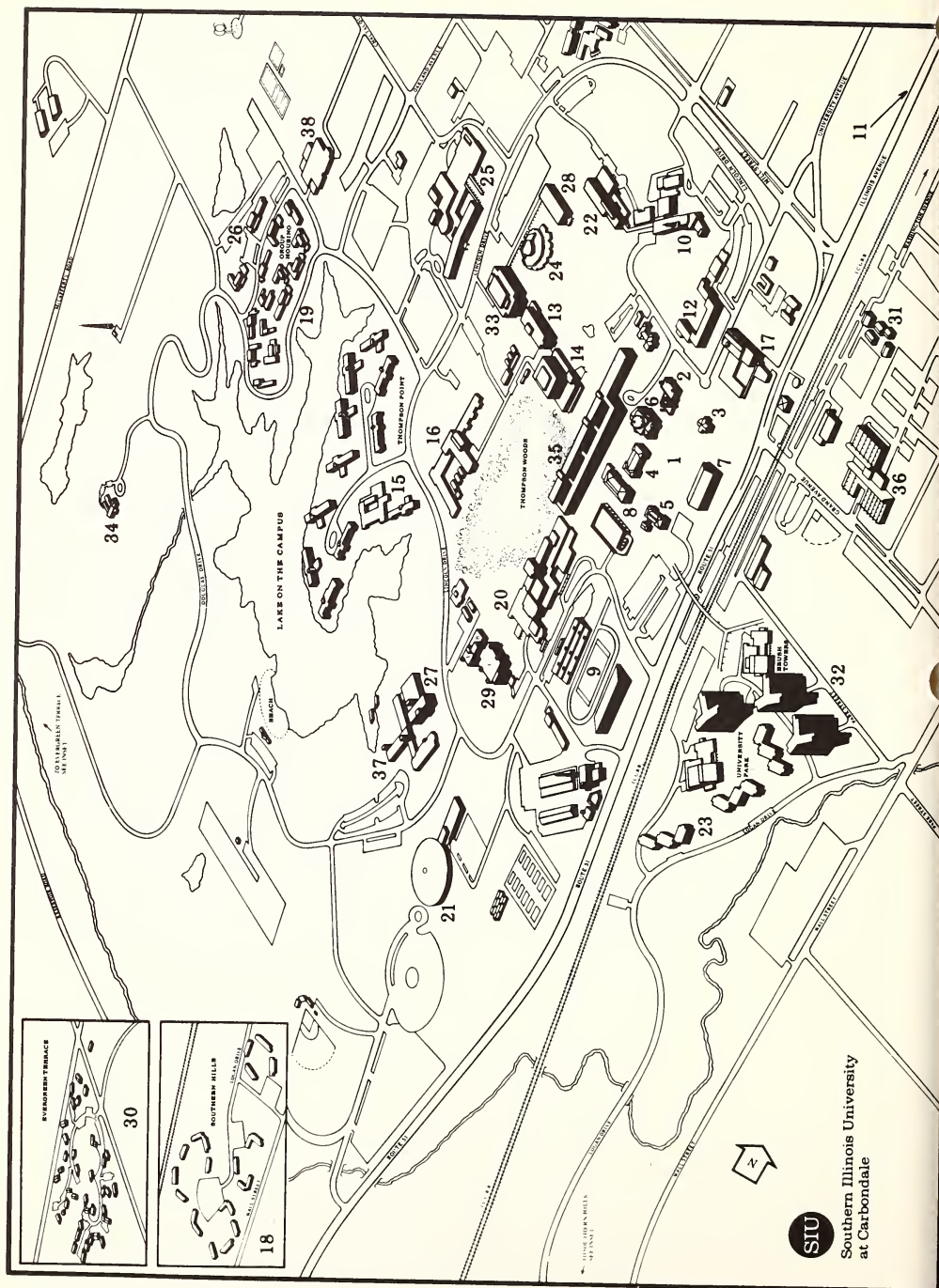
Spring Semester 1984--Proposed

Semester Classes Begin	Monday, January 16, 8:00 a.m.
Lincoln's Birthday Holiday	Friday, February 13
Spring Vacation	Saturday, 12:00 noon-Monday, 8:00 a.m., March 10-19
Final Examinations	Monday-Friday, May 7-11
Commencement	Saturday, May 12

Admissions' Open Houses

SIUC encourages individual visits to the campus. We also offer the following guest days for Saturday travelers, group visits, and all other interested visitors.

November 6, 1982	High School Open House
February 5, 1983	Transfer Open House
March 26, 1983	Open House
July 22, 1983	Senior Day (for prospective 1984 students)



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

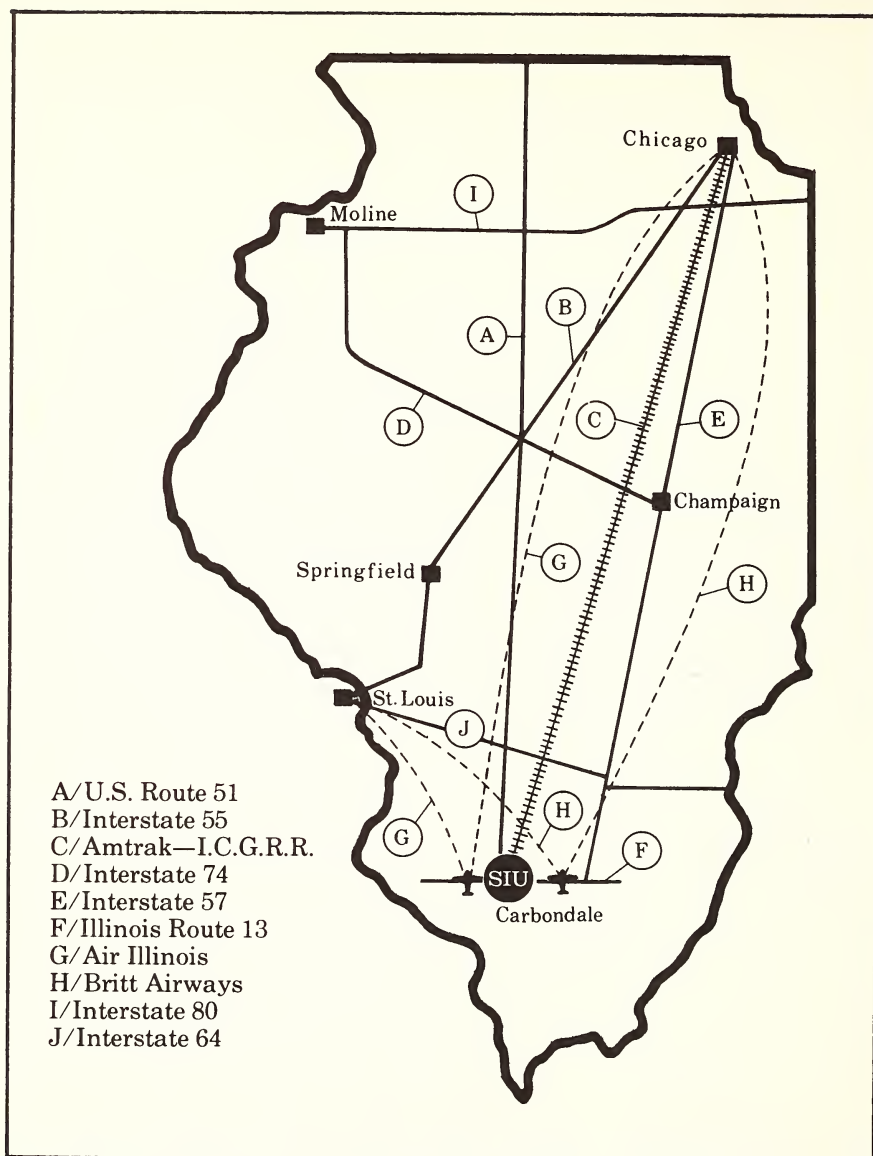
10. Pulliam Hall (1951)
11. School of Technical Careers (1951)
12. Woody Hall (1953)
13. Lindgren Hall (1956)
14. Morris Library (1956)
15. Thompson Point Residence Halls (1957)
16. Agriculture Building (1957)
17. Quigley Hall (1959)
18. Southern Hills Family Housing (1960)
19. Small Group Housing (1960)
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. General Classroom Building (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. School of Technical Careers Building (1978)
38. Hiram H. Lesar Law Building (1981)

Schools, Colleges, and Programs

- School 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
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- College of Liberal Arts 35
- School of Medicine 13
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- General Academic Programs 12

Offices

- Anthony Hall 5
- President's Offices
- Woody Hall 12
- Admissions and Records (Admission)
- Bursar's Office (Fee Payment)
- Cafeteria
- Career Counseling
- Career Planning and Placement Center
- Counseling Center
- General Academic Programs
- Graduate Studies and Research
- International Education
- Student Services
- Specialized Student Services
- Student Work and Financial Assistance
- Testing Office
- Student Center 20
- Book Store
- Cafeteria
- Information Desk
- Washington Square 31
- Housing Business Services
- Parking Division



CAMPUS

The original eight-building campus with its Gothic architectural tradition is now completely surrounded by a sprawling modern 866-acre campus with a maze of paths, impressive buildings, and attractive residence halls. Even though the original campus still serves as a focal point of study and university tradition, the prevailing design of the 430-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.

Being teaching and research oriented, the University provides a balance of laboratories and classrooms which serve as satellites to the impressive 7-story Morris Library containing over 1.6 million volumes and subscribing to over 11,000 current periodicals.

Additional facilities include the School 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 (applications, registration) (Illinois residents call toll free 800-642-3531)	(618) 453-4381
Aerospace Studies (AF-ROTC)	(618) 453-2481
Airport, Southern Illinois	(618) 529-2681
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
Central Ticket Office	(618) 536-3351
Continuing Education	(618) 536-7751
Counseling Center	(618) 453-5371
Health Service	(618) 453-3311
Housing Business Services (on-campus housing)	(618) 453-2301
Housing Information Services (offcampus housing)	(618) 453-2301
International Education	(618) 453-5774
Parking Division	(618) 453-5369
School/College Relations	(618) 453-4381
Specialized Student Services (Handicapped)	(618) 453-5738
Student Development	(618) 453-5714
Student Life	(618) 536-2338
Student Services	(618) 453-2374
Student Work and Financial Assistance	(618) 453-4334
Testing Center (CLEP, Placement/Proficiency, ACT Residual)	(618) 536-3303
University Graphics and Publications	(618) 536-3325
University Honors	(618) 453-2824
University Ombudsman	(618) 453-2411

SCHOOLS AND COLLEGES

Agriculture, School of (Agriculture Building)	(618) 453-2469
Business and Administration, College of (General Classroom 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
General Academic Programs (Woody Hall)	(618) 536-5506
Graduate Studies and Research (Woody Hall)	(618) 536-7791
Human Resources, College of	(618) 453-2251
Law, School of	(618) 536-7711
Liberal Arts, College of (General Classroom Building)	(618) 453-2466
Medicine, School of	(618) 536-5511
Science, College of (Neckers Building)	(618) 536-6666
School of Technical Careers	(618) 536-6682

GENERAL INFORMATION

THE SOUTHERN ILLINOIS UNIVERSITY SYSTEM

The Southern Illinois University System is a senior, public university system comprised of two diverse institutions, Southern Illinois University at Carbondale and Southern Illinois University at Edwardsville, serving approximately 33,000 students. One of the nation's largest, The Southern Illinois University System had its beginnings in Carbondale and was chartered in 1869 as Southern Illinois Normal University. In 1949 Southern Illinois University began offering off-campus academic courses in the Metropolitan East St. Louis area, and this initiative led to the eventual development of a separate, distinctive institution in Edwardsville.

The mission and scope of The Southern Illinois University System is highly complex and emphasizes a commitment to quality education. As The Southern Illinois University System has grown and flourished, its constituent Universities have developed programs of instruction, research, and public service which have attracted and served students, faculty, and staff not only from the region but from throughout the State of Illinois and the nation, and from overseas as well.

The Universities within The Southern Illinois University System offer a broad range of academic programs at the associate, baccalaureate, master's, doctoral, and professional degree levels. In addition to the many undergraduate degree programs offered, the constituent Universities support over sixty academic programs which lead to the master's degree, and twenty-two programs which lead to the doctorate. The professional schools are designed to provide quality health and legal personnel and services to the people of the State of Illinois. Southern Illinois University at Edwardsville operates a School of Nursing in Edwardsville and a School of Dental Medicine in Alton, and Southern Illinois University at Carbondale has a School of Law in Carbondale and a School of Medicine headquartered in Springfield. Of the 33,000 students currently enrolled, more than 6,000 are enrolled in graduate and professional programs.

The instruction, research, and service missions of the two constituent Universities reflect the needs of the geographic areas in which they are located. The System is also committed to serving Statewide, national, and international needs. This commitment is reflected throughout the State and the nation. Its presence is also felt in countries other than the United States through research and training exchanges and through worldwide student exchange programs.

The Southern Illinois University System is governed by a nine-member Board of Trustees which sets policy that enables the institutions to carry out established missions and goals. The Chancellor of The Southern Illinois University System is the chief executive officer of the System and is the primary link between the Universities and the Board of Trustees. The University Presidents report directly to the Chancellor and are responsible for the internal operations of the respective institutions.

ENVIRONMENT

Community: Carbondale, Illinois (pop. 26,900)

Location in 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 57.8 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; Britt Airways and Air Illinois; Gulf Transport bus line; highway routes Interstate 57, US 51, Illinois 13.

UNIVERSITY

Name: Southern Illinois University at Carbondale

Founded: 1869

President: Albert Somit

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; School of Technical Careers' Carterville Campus; Southern Illinois

Airport; outdoor laboratories; University farms

Acreage: 6,926; on-campus 974 acres

Campus Buildings: 375

Colors: Maroon and white

Mascot: Saluki (Egyptian hunting dog)

STUDENT DATA

Enrollment, Fall 1981: 23,991

Undergraduate, 20,261; graduate, 3,228; Professional 502

Men, 15,082; Women, 8,909

Residency: Illinois 19,712 (82%); out-of-state 2,722 (11%); 95 other countries, 1,557 (7%)

PERSONNEL, 1981

Percentage full-time faculty with doctorate: 67%

Undergraduate students/faculty who teach at undergraduate level ratio: 14:1

DEGREES

Undergraduate: Associate: A.A., A.A.S.; Baccalaureate: B.A., B.S., B. Mus.

Graduate: M.Acc., M.A., M.B.A., M.F.A., M. Mus., M. Mus. Ed., 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 Secondary Schools

National Council for Accreditation of Teacher Education

Accreditation Board for Engineering and Technology, Inc.

Accrediting Council of the American Assembly of Collegiate Schools of Business (undergraduate and master's level programs)

American Association for Accreditation of Laboratory Animal Care

American Association of Museums (University Museum and Art Galleries)

American Bar Association and Association of American Law Schools

Commission of Schools of American Board of Funeral Service Education (Mortuary Science program)

American Chemical Society

American Council on Education for Journalism

Commission of Accreditation of Dental and Dental Auxiliary Educational Programs of the American Dental Association (Dental Hygiene and Dental Laboratory Technology programs)

Commission on Accreditation of Rehabilitation Facilities (Vocational development program)

American Dietetic Association (programs meet standards for traditional baccalaureate programs in field of nutrition or dietetics)

American Institute of Architects (Architectural Technology program)

American Medical Association and American Association of Medical Colleges

American Physical Therapy Association (Physical Therapist Assistant program)

American Psychological Association (Counseling psychology and clinical training program)

American Speech-Language-Hearing Association by the Council on Professional Standards in Speech-Language Pathology and Audiology

Council on Rehabilitation Education (Rehabilitation Counseling program)

Council on Social Work Education

National Association of Schools of Art

Federal Aviation Administration (Aviation Technology program)

Foundation for Interior Design Education Research

Illinois Office of Education

Superintendent of Education

State Teacher Certification Board

State Board of Education

Vocational Home Economics Programs

State Plan for Administration of Vocational and Technical Education in Illinois

Illinois Department of Registration and Education (Associate Degree Nursing program)

National Association of Industrial Technology (B.S. program in Industrial Technology)

National Association of Schools of Music

Radiography Program - STC 3 year Provisional Accreditation as recommended by the Joint

Review Committee on Education in Radiologic Technology (JRGERT), sponsored by the

American College of Radiology and the American Society of Radiologic Technologists

Society of American Foresters

National Shorthand Reporters Association (court reporter training program)

Association of University Programs in Health Administration (Health Care Services option of B.S. degree in Technical Careers)

UNDERGRADUATE CURRICULA AND COURSES

Accounting	Food and Nutrition
Administration of Justice	Forestry
Administrative Sciences	French
African Studies ¹	Geography
Agribusiness Economics	Geology
Agricultural Education	German
Agricultural Education & Mechanization	Greek ^{1,3}
Agriculture, General	Health Education
Allied Health Career Specialties*	History
Animal Industries	Home Economics Education
Anthropology	Industrial Technology
Aquatics ^{1,5}	Interior Design
Architectural Technology*	Japanese ^{1,3}
Art	Journalism
Asian Studies ¹	Language Arts (English and Reading)
Athletic Training ^{1,5}	Latin ^{1,3}
Automotive Technology*	Latin American Studies
Aviation Technology*	Law Enforcement
Avionics Technology*	Linguistics
Biological Sciences	Marketing
Black American Studies ¹	Mathematics
Botany	Microbiology
Business and Administration	Mortuary Science and Funeral Service*
Business Economics	Museum Studies ¹
Business Education	Music
Chemistry	Nursing*
Child and Family	Occupational Education
Chinese ^{1,3}	Paralegal Studies
Cinema and Photography	Philosophy
Classical Civilization ^{1,3}	Photographic Production Technology*
Classics	Physical Education
Clothing and Textiles	Physical Therapist Assistant*
Coaching ^{1,5}	Physics
Commercial Graphics - Design*	Physiology
Communication Disorders and Sciences	Plant and Soil Science
Community Development ¹	Political Science
Comparative Literature ¹	Psychology
Computer Science	Radio-Television
Construction Technology - Building*	Radiologic Technology*
Construction Technology - Civil*	Recreation
Consumer Studies ^{1,4}	Religious Studies
Correctional Services*	Respiratory Therapy Technology*
Dance ^{1,5}	Russian ³
Dental Hygiene*	Secretarial and Office Specialties*
Dental Laboratory Technology*	Social Studies
Design	Social Welfare
Early Childhood Education	Sociology
Earth Science	Spanish ³
East Asian Civilizations ^{1,3}	Special Major
Economics	Special Education
Educational Media ¹	Speech Communication
Electronic Data Processing*	Technical Careers
Electronics Technology*	Theater
Elementary Education	Tool and Manufacturing Technology*
Engineering	Uncommon Languages ^{1,2}
Engineering Technology	University Studies
English	Women's Studies ¹
Family Economics and Management	Zoology
Finance	

Pre-Professional Programs⁶

Pre-Dentistry	Pre-Pharmacy
Pre-Law	Pre-Physical Therapy
Pre-Medicine	Pre-Podiatry
Pre-Nursing	Pre-Theology
Pre-Osteopathy	Pre-Veterinary Science
Pre-Optometry	

¹Minor only.

²Described under Linguistics.

³Described under Foreign Languages.

⁴Described under Family Economics and Management.

⁵Described under Physical Education.

⁶Preparatory to applying to professional schools. These are non-degree programs.

*Associate degree curriculum.

APPLICATION REQUEST: ADMISSION PROCEDURES

To request application materials for admission, write to the:

Office of Admissions and Records
Southern Illinois University at Carbondale
Carbondale, Illinois 62901

or call toll free (Illinois residents) 800-642-3531. Direct, call (618) 453-4381.

Counselors may request application packets in small quantities. Rolling admissions process:
NO DEADLINE. APPLICATION FEE: NONE.

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 during one of five national test dates and send their scores to us 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 18 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 transcript.

Students who have sent ACT scores of less than 18 but greater than 14 will be sent a special application for admission. This document must be completed and returned to the Admissions Office with a copy of the student's transcript. Students with test scores less than 15 must submit a regular application for admission.

All students who do not send ACT scores as a result of the national test dates must apply through the traditional application for admission process (details described below).

REQUIRED MATERIALS AND PROCEDURES

HIGH SCHOOL APPLICANTS

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

1. Completed and signed application forms or ACT/APP.
2. Two copies of the high school transcript signed with school seal, class rank, 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 application forms.
2. High school transcript.
3. Official G.E.D. 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 supplemental scores 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 application forms.
2. Official transcripts from each institution attended after high school.
3. Work in progress form.

Transfer students who will have less than 26 semester or 39 quarter hours prior to entering SIUC will be considered for admission by providing:

1. Completed and signed application forms.
2. Official transcript from each institution attended after high school.
3. Work in progress form.
4. High school transcript (2 copies).
5. 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 who are required to submit a high school record but who did not graduate should submit results of the G.E.D. examination and their incomplete high school record.

The School/College Relations Division of the Admissions and Records Office assists schools by providing representatives for college day and night programs, counseling prospective students, visiting schools on request, distributing university materials, and providing general assistance to counselors. Counselors should feel free to contact members of this staff any time when information or materials are needed.

School/College Relations Division
Office of Admissions and Records
Southern Illinois University
Carbondale, Illinois 62901
Phone: 618-453-4381
Toll Free (Illinois Residents) 800-642-3531

Thomas McGinnis	Director
George Mandin	Counselor
Debbie Perry	Counselor
Cathy Walsh	Counselor
Ben Barron (Chicago Area)	Counselor
Harriet Wilson	Counselor

ADMISSION POLICIES, REQUIREMENTS

ADMISSION OF FRESHMEN

To be eligible for admission, applicants must be graduates of recognized high schools. Graduates of non-recognized high schools may be admitted to the University by completing successfully the General Educational Development Test or an entrance examination. Persons who have not completed high school may also qualify for admission by completing the GED test provided they meet the requirements to write this examination.

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

Students entering the University as freshmen are enrolled in the schools or colleges within the University that offer the academic programs they indicate they plan to pursue. Students who are undecided as to the course of study they want to follow are enrolled in General Academic Programs, pre-major advisement or selected other academic units.

ACCELERATED LEARNING PROGRAM FOR HONORS AND ADMISSIONS (ALPHA)

Exceptionally capable high school students who (a) have completed their junior year, (b) are recommended by the high school principal or guidance counselor, and (c) are approved by the director of admissions of the University will be permitted to enroll for University courses to be taken concurrently with their senior year of high school work. Such students will also be permitted to enroll for University courses offered during the summer session between their junior and senior years of high school, without being concurrently enrolled in the secondary school. Enrollment during the summer for students participating in the ALPHA program is limited to eight semester hours.

It is expected that high school principals will judge each case on its individual merits, and that in making their selections and recommendations they will consider such things as:

- the rank held by the students in their high school classes;
- the results of any standardized test which the students may have taken;
- the opinion of the students' teachers regarding their aptitude for college level work;
- the opinion of the students' teachers regarding the students' having attained sufficient maturity to adjust to the social and emotional interactions involved.

Since the ALPHA Program was developed to offer the opportunity for enrichment and for acceleration of college-level courses, students are expected not to duplicate those courses offered by the high school. In their letters of recommendation, principals and guidance counselors may recommend specific classes. Every attempt will be made to follow these recommendations, provided the student meets any prerequisites for the courses.

ADMISSION OF FRESHMEN TO BACCALAUREATE PROGRAMS

Applicants seeking admission to a baccalaureate program who have an ACT composite score of 18 or higher (SAT 780) are eligible for admission any semester. In addition, high school graduates who rank in the upper half of their graduating classes and who score a minimum ACT composite of 15 or higher (SAT 700) are also eligible for admission any semester.

High school graduates who rank in the upper two thirds of their graduating class or who earn a minimum ACT composite score of 15 or higher (SAT 700) are admissible for the spring semester on a conditional basis. The conditions are that the student must enroll for a minimum of 12 semester hours and complete at least 10 semester hours of graded work with a minimum overall "C" average. Students who do not meet the conditions of probationary admission will be suspended and will not be considered for re-admission for one academic year.

Students who have been admitted or who qualify to be admitted on a conditional basis may earn transfer credit at another college or university prior to their spring semester at SIUC. However, to maintain their eligibility for spring enrollment, students must earn an overall "C" average in all work attempted.

A limited number of applicants who do not meet the University's entrance requirements may be granted admission to the fall semester through two special admission programs, Basic Skills and Special Supportive Services. All applicants who are not admissible by the above requirements will have their applications reviewed automatically for admission to one of these special programs.

Applicants interested in programs offered by the College of Engineering and Technology should see special section below.

ADMISSION OF FRESHMEN TO ASSOCIATE DEGREE PROGRAMS

Students seeking admission into the associate degree programs in the School of Technical Careers can qualify for admission any semester if they rank in the upper two thirds of their graduating class or score a minimum ACT composite score of 15 or higher (SAT 700). Students who do not qualify for admission to the associate degree programs under the above requirements may be granted conditional admission for the spring semester, provided those programs are available in spring.

Students seeking admission to Commercial Graphics-Design, Dental Hygiene, Dental Laboratory Technology, Mortuary Science and Funeral Service, Nursing or Physical Therapist Assistant programs must meet University entrance requirements as well as those of the specific programs. Admission to SIUC does NOT insure admission into one of the above two year associate degree programs. Interested counselors/students are urged to contact the individual program coordinators to determine what additional materials may be required for admission. All students will receive further information after their admission to the University.

Commercial Graphics-Design applicants must submit all materials to the University no later than December 6, 1982. A portfolio and attendance at a workshop are also required by the program.

Dental Hygiene applicants are required to take the Dental Hygiene Aptitude Test. This test must be taken in April of a student's junior year or no later than November of the senior year. All application materials to the University and to the program must be on file no later than January 15, 1983.

Physical Therapist Assistant applicants must file all application materials to the University and to the program no later than December 10, 1982 for consideration for Fall 1983.

Students interested in the associate degree Nursing curriculum must show verification of LPN or equivalent training. It is strongly recommended they apply and be admitted to the University prior to October 1, 1982.

Students may be admitted only during the fall semester to associate degree programs in Dental Hygiene, Physical Therapist Assistant, Commercial Graphics-Design and Dental Laboratory Technology.

Aviation Technology has experienced a sharp increase in applications recently, while they are required by certification standards to space limitations to maintain a ceiling on enrollment. Admission is offered to qualified students on a first-come, first-served basis, and early application (9 months to a year in advance) is strongly encouraged.

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 application materials. Students who are less than 21 years of age are also required to achieve a minimum ACT score of 15 for admission to four-year programs.

ADMISSION OF TRANSFER STUDENTS

For academic purposes undergraduate applicants for admission to the University 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 transfer students' grade point averages cannot be determined, their 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 the Student Life Office before admission will be granted by the director of admissions.

Transfer students will be admitted directly to the school or college in which their major fields of study are offered. Students who are undecided about their major fields of study will be admitted to the General Academic Programs Division or selected other units.

Transfer students from non-baccalaureate programs will ordinarily be placed in the upper division unit in which they plan to continue their studies. Students admitted to associate degree programs of the School of Technical Careers will be enrolled in that academic unit.

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 twenty-six semester hours, the applicant will be required to meet the admission requirements of a beginning freshman as well as a transfer student.

Transfer students who have completed a minimum of one year of work can be considered for admission one year in advance of their date of matriculation if they plan to transfer without interruption. Students who have completed less than one year of study may initiate the admission process after the completion of one semester or one quarter of work. 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 for selected programs to students who are in their first term of a collegiate program provided they 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 have maintained 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 will have their initial admission withdrawn.

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

Students applying for admission to the University to pursue baccalaureate programs from programs not so oriented will be considered for admission as follows: (1) a student who has been enrolled in an institution which is accredited by one of the regional accrediting associations or is in candidacy status with one of the regional accrediting associations will be considered for admission on the basis of the regular transfer admission standards and (2) 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.

Transfer students interested in programs offered by the College of Engineering and Technology should see special section below.

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 twenty-six 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.

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.

New students may be admitted only for the fall semester to selected majors in the School of Technical Careers. Please consult the admission application guide to determine when new students can be admitted to two-year programs in the School of Technical Careers.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Admission to the University does not insure admission to the Teacher Education Program. It is necessary to make formal application for admission to the Teacher Education Program. If a student has an overall grade point of at least 2.15 (4.0 scale) and a minimum of 30 semester

hours of completed academic work, including Education 201, the student is eligible for admission to the program. Students with at least 60 semester hours and/or an Associate of Arts or Science Degree may be admitted to the Teacher Education Program (assuming other prerequisites are met) and register concurrently for Education 201, 301, and 303. Application forms are available in Room 135 of the Wham Education Building and must be returned, along with the student's latest transcript, to the same office. All applications must be submitted in person. Applications received by mail are not approved.

Admission to "pending" status in the program is granted by the Coordinator of Teacher Education Services in Wham 135. This status allows a students to begin work on the block of professional education courses and experiences. Additional approval from the department offering the teaching major is required before a student can complete the sequence of professional education courses, including the semester of student teaching.

Students not approved for advancement in the Teacher Education Program will be counseled about alternative degree programs.

ADMISSION AND RETENTION POLICY IN THE COLLEGE OF ENGINEERING AND TECHNOLOGY

All qualified new students are admitted to the College with a pre-engineering or pre-engineering technology or pre-industrial technology major classification. A student must successfully complete the following requirements.

ENGINEERING

1. To advance to upper division courses and be classified under a specific departmental major, a pre-engineering student must have complete the following five courses or their accepted equivalencies with a minimum grade of C in at least four of the five courses: Mathematics 150, 250 and 251; Chemistry 222A or 224; Physics 205A.
2. To remain in the College, students are subject to the additional 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, EMM, ESSE, MNGE and TEE.

ENGINEERING TECHNOLOGY

1. To advance to upper division courses and be classified under a specific departmental major, a pre-engineering technology student must have complete the following four courses or their accepted equivalencies with a minimum grade of C in at least three of the four courses: Mathematics 111 and 150; ENGR 222; and Chemistry 140A or Physics 203A.
2. To remain in the College, students are subject to the additional 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 ET.

INDUSTRIAL TECHNOLOGY

1. To advance to upper division courses and be classified under a specific departmental major, a pre-industrial technology student must have completed the following four courses or their accepted equivalencies with a minimum grade of C in at least three of the four courses: Mathematics 111; Physics 203A; ET 103 and ENGR 222.
2. To remain in the College, students are subject to the additional 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.

ADMISSION OF INTERNATIONAL STUDENTS

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 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 fewer than two years study in a United States high school, (3) have completed fewer 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 or a special English examination administered by the Center for English as a Second Language. 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 are not required to submit TOEFL scores or write a special English examination.

International students whose secondary school and college records are acceptable for admission purposes must also receive high enough TOEFL scores for unconditional admission. Students with a TOEFL score of 525 or higher will be granted unconditional admission. Applicants whose TOEFL scores are between 475 and 524 will be admitted contingent upon completion of an English re-test 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.

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

ADMISSION OF SPECIAL CATEGORIES OF STUDENTS

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

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 AND SPECIAL SUPPORTIVE SERVICES

The University operates two programs through which educationally and socially disadvantaged students are admitted to the University each fall who would otherwise not meet the University's regular admission standards for four-year programs. All four-year applicants who do not meet established admission requirements will have their applications reviewed automatically for consideration.

ADMISSION OF ADULTS AS UNCLASSIFIED STUDENTS

Adults who have never enrolled in an institution of higher education may enroll in select courses as a non-degree student 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.

HOUSING INFORMATION

REGULATIONS

ALL SINGLE FRESHMEN under the age of 21, not living with parent or 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.

ALL SINGLE SOPHOMORES under the age of 21, not living with parent or guardian, are required to live in on-campus residence halls or University approved off-campus housing. Sophomore approved housing includes rooming houses and residence hall apartments. Such facilities are not required to provide food service but are required to 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 21 years of age or over on the first day of the 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 Tower). Each hall houses 816 students (male, female, co-ed).

UNIVERSITY PARK

The University Park residential area, located on the southeast edge of the SIUC campus consists of one 17 story residence hall (Neely Hall-male, female, co-ed), and three 4-story men's triad buildings (Allen, Boomer, and Wright Halls). (This area is highly recommended for students taking classes at the School of Technical Careers or SIU Airport since the bus service departs from this location). All buildings are air-conditioned.

THOMPSON POINT

The Thompson Point residential area, located on the shores of the SIUC Campus Lake, consists of eleven halls with each housing approximately 120 students (male, female, co-ed). All buildings are air-conditioned.

CONTRACT COSTS - All Areas \$1,112/Semester \$2,224/Academic Year

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

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 apartments for married students.

EVERGREEN TERRACE

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

MARRIED STUDENT HOUSING COST

Efficiency apartments	\$195/month
Furnished one bedroom	\$215/month
Furnished two bedroom	\$232/month
Unfurnished two bedroom	\$224/month
Unfurnished three bedroom	\$268/month

The University pays all utilities. Interested students should contact Family Housing, Southern Illinois University at Carbondale, Carbondale, Illinois 62901; (618) 453-2301.

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, Building B, SIUC; Telephone (618) 453-2301.

GENERAL HOUSING INFORMATION

APPLICATION FOR HOUSING: The 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 will automatically receive information and applications for housing about three weeks after admission. Priority for University Housing is determined by the date SIUC receives the completed housing application.

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.

SMALL GROUP HOUSING: 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 SERVICE: In all areas except married student housing and Small Group Housing, 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.

SPECIAL INTEREST GROUPS: Students may request to be assigned to areas where their special interest can be accommodated, such as intensive study areas, transfer student areas, upperclassman, graduate areas, over 21, and University Honors Program areas.

COED LIVING: Co-educational living (alternate suites of men and women on the same floor) is available at all areas except to first semester freshmen students.

ROOM FURNISHINGS: All rooms are equipped with twin size beds, closet space, chest of drawers, desks, study chairs, and draperies. Free weekly linen service provides students with two sheets and one pillow case. Room arrangements are two students per room sharing private bath with adjoining two student room, except University Park for men which has community showers.

ROOMMATES: New students, both freshman and transfer, have the opportunity to select a roommate of their choice before arriving, provided the request is mutual, each student has a signed contract on file with advance payment by May 1, 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 11 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 freshman and transfer students as it permits maximum course selection, counseling and campus orientation.

Final Registration is conducted during the last two 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, transfers) are assigned an advisement appointment and notified by mail. Appointments are mailed out for the semester indicated around the following dates: fall, June 15; spring, October 15; summer, April 1.

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.

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 or 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.

FEE ASSESSMENT

Students who have been awarded scholarships (i.e., ISSC) should bring a copy of the award notification so that their fees can be assessed accordingly.

ORIENTATION: TWO HOURS

Guests are welcome to tour the campus or visit offices 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: APPROXIMATELY FORTY-FIVE MINUTES

A student is advised of requirements and proficiency opportunities, discusses vocational plans, and then selects appropriate courses.

REGISTRATION: ONE HOUR

The student selects the time his or her classes will meet and obtains an I.D. badge.

ADVICE CENTER

	Area code (618)
General Academic Programs	453-4351
Pre-Major Advice, Pre-Nursing	
School of Agriculture	453-3080
College of Business and Administration	453-5250
College of Communications and Fine Arts	453-4308
Art (Allyn)	453-4315
Cinema and Photography (Communications Building)	453-2682
Communication Disorders and Sciences	453-4301
Journalism (Communications Building)	536-3361
Music (Altgeld Hall)	453-2527
Radio-Television (Communications Building)	453-4343
Speech Communication (Communications Building)	453-2291
Theater (Communications Building)	453-5741
College of Education	453-2354
College of Engineering and Technology	453-2261
College of Human Resources	536-2378
College of Liberal Arts	453-3388
College of Science	536-5537
School of Technical Careers	536-6682
(All majors except:)	
Automotive Technology	985-4110
Aviation Technology, Avionics Technology	536-3371
Construction Technology	985-4110
Physical Therapist Assistant	453-2361
Tool and Manufacturing Technology	985-4110

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 fee schedule is for the 1982 Fall Semester.

ON-CAMPUS UNDERGRADUATE FEE SCHEDULES

Semester Hours Enrolled	Illinois Residents			Non-Illinois Residents		
	Tuition	Student Fees	Total	Tuition	Student Fees	Total
1	\$ 33.75	\$ 76.31	\$110.06	\$101.25	\$ 76.31	\$177.56
2	67.50	85.37	152.87	202.50	85.37	287.87
3	101.25	96.69	197.94	303.75	96.69	400.44
4	135.00	108.17	243.17	405.00	108.17	513.17
5	168.75	119.64	288.39	506.25	119.64	625.89
6	202.50	131.13	333.63	607.50	131.13	738.63
7	236.25	142.61	378.86	708.75	142.61	851.36
8	270.00	154.08	424.08	810.00	154.08	964.08
9	303.75	165.56	469.31	911.25	165.56	1076.81
10	337.50	177.04	514.54	1012.50	177.04	1189.54
11	371.25	188.52	559.77	1113.75	188.52	1302.27
12*	405.00	200.00	605.00	1215.00	200.00	1415.00

All students will pay the full Student Medical Benefit Fee of \$60.00, 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 full 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 \$1,210.00 per year for tuition and fees (Fall and Spring semesters). Full time out-of-state (non-residents) students will pay \$2,830.00 per year for tuition and fees.

Total University Charges: Full time Illinois residents can expect to pay up to \$2,224.00 per year in housing costs bringing total University charges to approximately \$3,434.00 per year for room and board, tuition and fees. Full time out-of-state students can expect to pay up to \$2,224.00 per year for housing bringing total University charges to approximately \$5,054.00 per year for tuition and fees, room and board.

Textbooks: Students must purchase all textbooks (estimated between \$300-\$350 per year).

Personal Expenses: Includes transportation to and from home, entertainment and personal items estimated at \$1,000.00 per year.

FINANCIAL ASSISTANCE

The Office of Student Work and Financial Assistance at SIUC makes every attempt to insure that all students have the economic opportunity to matriculate and continue their education at SIUC.

Every effort is made to provide a "package" of financial assistance to those students who qualify including scholarships, grants, work, and loans.

SIUC distributed over 46 million dollars in financial aid last year, over 7000 student workers were employed, and approximately 70% of all the students on the SIUC campus received some form of financial aid.

TYPES OF ASSISTANCE

SCHOLARSHIPS

Illinois State Scholarship Commission Monetary Award
Southern Illinois University Scholarship
Illinois State ROTC
National Guard
Junior/Community College Scholarship
National Collegiate Athletic Association Award
Association of Intercollegiate Athletics for Women
Illinois State Military Scholarship
General Assembly Scholarship
Dependents of Prisoners of War and Missing in Action
Survivors of Policemen or Firemen Killed in the Line of Duty
Air Force ROTC

GRANTS

Pell (Basic) Grant
Supplemental Educational Opportunity Grant (SEOG)
Special Education Traineeships
Vocational Rehabilitation

LOANS

National Direct Student Loan (NDSL)
Illinois Guaranteed Loan
Guaranteed Loans for Out-of-State Students
Short Term Emergency Loans

PART-TIME EMPLOYMENT

Student Work (On-Campus)
Federal Work-Study (On-Campus)
Student Work (Off-Campus)
Cooperative Education Work Program
Summer Work Program Nationwide

OTHER

Veterans - Chapter 34 G.I. Bill
Veterans - Chapter 35
Veterans - Chapter 31 Vocational Rehabilitations
Veterans - Pension for Dependent of Deceased or Disabled Vets (Form 674)
Social Security
Railroad Retirement

GENERAL INFORMATION

How to Apply for Financial Assistance at SIUC

To apply for the majority of financial aid programs coordinated through the Office of Student Work and Financial Assistance, students must complete and mail to Iowa the 1983-84 American College Testing/Family Financial Statement (ACT/FFS). The ACT/FFS Need Analysis Form allows students to apply for:

1. Pell (Basic Grant)
2. Illinois State Scholarship Commission Monetary Award (Illinois residents only).
3. Campus-Based Aid Programs: Supplemental Educational Opportunity Grant (SEOG)
National Direct Student Loan (NDSL)
Student to Student Grant (STS)
College Work Study (CWS)

To allow adequate time for financial aid requests to be processed before Fall 1983 classes begin, the American College Testing/Family Financial Statement (ACT/FFS) for the 1983-84 academic year must be completed and mailed to ACT by April 1, 1983. Since campus based aid is awarded contingent upon available funds, applications mailed after April 1 will be processed on a funds-available basis. An ACT/FFS must be submitted each year to re-establish eligibility. *SIUC does not accept the College Scholarship Service/FAF (financial aid form).

Complete and mail the ACT/FFS to Iowa City, Iowa as soon after January 1, 1983 as possible, but no later than April 1, 1983, to be assured priority processing for campus-based aid. It takes approximately four to six weeks for this form to be processed and forwarded to our office. The results of this need analysis must be received by the SIUC Student Work and Financial Assistance Office before a student can be considered for campus-based aid (NDSL, SEOG, STS) and/or the Student Work Program. (Students must include the ACT processing fee and enter SIUC's school code).

All undergraduate students applying for financial assistance at SIUC should apply for the Pell (Basic) Grant. SIUC recommends that students apply for the Pell Grant through the ACT/FFS. Note: As soon as students receive the Student Aid Report (SAR) from the Pell Grant program, they must review it for accuracy, sign where indicated, and mail it to the SIUC Office of Student Work and Financial Assistance.

All undergraduate Illinois residents who are applying for financial assistance at SIUC should apply for the Illinois State Scholarship Commission Monetary Award (ISSC). Students are encouraged to apply well in advance of application deadlines, since these funds may be limited. Apply as soon as applications are made available.

Financial Assistance/Transfer Students -- Transfer students should know that financial aid being received at their previously attended school(s) does not automatically follow them to SIUC. Transfer students should check with the Student Work and Financial Assistance Office to determine if their student assistance will be transferrable to SIUC and to discover what new financial assistance opportunities may be available.

Federal regulations require transfer students seeking federally supported financial assistance at SIUC to forward a "Financial Aid Transcript" indicating all financial assistance received from the school(s) previously attended. Financial Aid Transcript forms will be mailed from the Student Work and Financial Assistance Office upon admission to SIUC. They should be completed by the previously attended school(s), signed, and returned to SIUC.

Students wishing to continue a National Direct Student Loan (NDSL), a Supplementary Educational Opportunity Grant (SEOG), or to qualify for a Work-Study job must reapply for these at SIUC by submitting a FY 83 ACT/FFS. Students currently holding an Illinois Guaranteed Loan (IGL) should check with the issuing lender to make sure the loan may be continued at SIUC.

Students with a Pell (Basic) Grant who may be transferring to SIUC must provide an original or duplicate Student Aid Report (SAR) from the Pell Grant Program for submission to the SIUC Student Work and Financial Assistance Office. Students who are currently receiving an Illinois State Scholarship Monetary Award (ISSC) must notify the Illinois State Scholarship Commission about the anticipated transfer. The amount of the award will then be recomputed and adjusted to reflect the costs of attending SIUC.

Policy on Satisfactory Progress for Students Receiving Financial Assistance --

At this time, the SIUC Policy on Satisfactory Progress for students receiving financial aid is being revised. Information concerning the Satisfactory Progress Policy can be obtained by contacting the Office of Student Work and Financial Assistance prior to the 1983-84 academic year.

NOTE:

At the time of publication, the financial aid picture is undergoing changes. Be sure to have the most current information when applying for financial aid.

Students and counselors desiring additional information should contact:

Office of Student Work and Financial Assistance
Woody Hall, B wing, Third Floor
Southern Illinois University at Carbondale
Carbondale, Illinois 62901
(618-453-4334)

STUDENT SERVICES: STUDENT ACTIVITIES/ATHLETICS/INTRAMURALS

SERVICES

Career Counseling Center, 618-536-2096; Career Planning and Placement Center, 618-453-2391; and Testing Office, 618-536-3303

This trio of offices provides students the opportunity to explore occupations and develop vocational interests, examine individual potentials and interests, examine job market opportunities, and be assisted in placement into a career. Vocational and educational counseling, testing, and placement services are provided. Students may also arrange for programs such as the Graduate Record Examination, Miller Analogy test, Law School Aptitude test, etc. See also section on "Entry Level Job Titles."

Counseling Center, 618-453-5371

The Counseling Center is staffed with professional counselors qualified to assist students with personal development and resolution of problems. Personal problems, marital adjustment difficulties, social skill development, parental conflict, and sex role awareness development are areas of frequent concern to students. Counseling is provided through one to one student-counselor contact or in group discussion within an atmosphere of confidentiality and trust.

Office of Women's Services, 618-453-3655

The purpose of the Office of Women's Services 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 four 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; and 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.

Specialized Student Services, 618-453-5738 (Voice or TTY)

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 support programs and services are offered including: academic support services, special transportation and parking arrangements, modified housing, adapted recreational activities, wheelchair repair, personal attendants, and specialized career counseling and placement services. The academic support services include: test proctoring services for students needing additional time or reading or writing assistance to complete regular course exams; pre-enrollment planning for support services; readers, taped texts, special equipment, and mobility training for the visually impaired and learning disabled; notetakers and interpreters; and special counseling and communications training for the hearing impaired. The Illinois Department of Rehabilitation Services (IDORS) maintains an on-campus office, and the SSS office has close liaison with IDORS to facilitate admission and enrollment of disabled students sponsored by IDORS. The SIUC campus is highly 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 as possible in advance of the semester starting date in order that all necessary support services, financial assistance, special equipment, and housing arrangements may be arranged in advance.

Office of Student Development, 618-453-5714

The Office of Student Development works with more than 350 student organizations in fiscal management, organizational matters, and helping them to better understand and utilize the policies and procedures of the University relating to student activities and governance.

Among the organizations are the Undergraduate Student Organization and Graduate Student Council, which are the official representative student organizations for their representative constituencies. It is the initial responsibility of these two groups to represent students in University affairs which determine student life on campus. The Black Affairs Council is coordinating and governmental body for the eighteen black student organizations of the University. The Council takes a major responsibility for programming social, cultural, and educational programs for those interested in black affairs. The Inter-Greek Council is the activity coordinating council for the University's eighteen social fraternities and eight social sororities. This council provides activities which create responsibility for and awareness of the academic community as well as the Carbondale community. The remainder of the vast number of student organizations consist of a varied list of special and public interest groups, religious groups, scholastic and professional honoraries, and departmental organizations. A year-round student volunteer program, Mobilization of Volunteer Effort, is also operated from this office.

The Office of Student Development provides a comprehensive orientation program for new students and their parents. The format of the orientation sessions introduces the participants to the purposes, offices, programs, services, and procedures of the University. The primary purposes of orientation are to reduce anxiety and to acquaint students with the University's vast resources, services and programs.

In cooperation with the Department of Higher Education, the Office of Student Development provides opportunities for students to receive academic credit for their participation in student activities, programming, student organizations, and student governance. Opportunities are available in student governance, leadership development training course for fraternity and sorority members, undergraduate internship/practicum in student activities, and leadership development training course for new student leaders and student life advisers.

The Office of Student Development is also involved with Parents' Weekend, Activities Fair, and programs and activities for international and non-traditional students.

Social Activities

The University annually sponsors over 5,000 student activities. These include formal, semi-formal, and informal activities.

Annual all-campus events include Homecoming, Parent's Weekend, International Festival, Theta Xi Variety Show, Convocations, Celebrity Series, Arena Series, Community Concert Series, films (movie hour and cinema classics), theater productions, and various instrumental and vocal performances. In addition, the calendar includes activities sponsored by the Undergraduate Student Organization, Saluki Marching Band, Debates, and important meetings, lectures, seminars, symposia, colloquia, and conferences.

Undergraduate Student Organization, 618-536-3381

The Undergraduate Student Organization is composed of the Campus Senate, which reflects student concerns, passes bills and resolutions on student affairs, and gives recognition and financial assistance to student organizations.

Social Organizations

There are approximately 350 recognized University-approved student organizations on the SIUC campus. Every student has the opportunity to become actively involved in both academic and departmental organizations as well as an exhaustive number of social organizations.

Almost every ideology and special interest group is represented on the SIUC campus, all which benefit students greatly in both their academic, professional and social development.

Interested students should feel free to contact the Office of Student Development for information on special student groups.

Touch of Nature, 618-529-4166

The University's Touch of Nature Environmental Center is a 3,100 acre facility located approximately 8 miles southeast of campus. As a unique outdoor living-learning center, it is unequaled in size and scope in the midwest. Serving both the entire University and the public, the Center's expansive residential facilities and programming components provide both credit and non-credit opportunities. Rustic residential facilities include two fully equipped camps with large dining, meeting, and summer and winter sleeping accommodations.

As a model facility for experiential education research and recreation the Center offers eight major year-round programs. These are conferences for business, industry, educational and other agencies; Emergency Preparedness and Rescue Training; Environmental Education Workshops; Residential Camping Programs for the young and elderly; Wellness Lifestyling; and three Wilderness Adventure Programs--Spectrum, Underway and Student Outdoor Adventure Recreation (SOAR). In the summer time, in particular, Camp II is teeming with programs for handicapped children and adults, and Camp I is similarly buzzing with functionally-able people of all kinds.

The Center also serves as a field site for such departments as botany, forestry, recreation, special education, rehabilitation, zoology and administration of justice. Internship and practicum credit is available.

INTERCOLLEGIATE ATHLETICS

Southern Illinois University at Carbondale boasts one of the country's best all-around sports programs. The Salukis compete successfully in the National Collegiate Athletic Association's Division I (I-AA for football), which includes the nation's top 126 athletic programs, and in Division I of the Association for Intercollegiate Athletics for Women (AIAW).

Carrying the unusual nickname of "Salukis" (an Egyptian hunting dog known for its speed), the SIUC men's teams gained national prominence in the early 1960s and have managed to maintain their excellence ever since. After operating as an independent for a number of years, the Salukis joined the Missouri Valley Conference, one of the nation's strongest basketball leagues, in 1975 and have fared well ever since.

SIUC has been particularly strong in baseball, basketball, cross-country, gymnastics, swimming and track in recent years and its 1967 basketball team captured the National Invitation Tournament behind the outstanding leadership of Walt Frazier. A number of student-athletes have gained national individual titles in the past 20 years and literally hundreds have received All-American recognition.

Although SIUC's football program had several lean years in the early 1970s, it has since made a remarkable recovery and is now looking forward to bidding for a national title in Division I-AA.

Women's Intercollegiate Athletics (WIA) actively encourages female students to participate in one or more of the ten varsity sports that currently comprise the well-respected SIUC program. Student-athletes can refine skills and match competitive talents with the nation's best in basketball, cross country, field hockey, golf, gymnastics, softball, swimming and diving, tennis, track and field, and volleyball.

WIA participants benefit from: the personal instruction and guidance of an established coaching staff and a number of paid assistants; auxiliary services of a professional support staff; a wide range of competitive opportunities at conference, state, regional, national and international levels. Additionally, those in the program have daily access to the ultra modern equipment and facilities of Davies Gym, the traditional home of WIA where a \$3.25 million renovation was recently completed.

For students and area sports enthusiasts alike, WIA annually sponsors outstanding special events. In recent years, a number of international exhibitions, national championships in volleyball and field hockey, and gymnastics spectaculars have been conducted and well received on campus.

For SIUC students interested in obtaining work experience in areas of athletics, student work positions are generally available for: training aides, team managers, clerical assistants, sports information and promotional aides, and facility and equipment personnel.

Coaches (Men's Athletics)

Baseball: Richard Jones
Basketball: Allen Van Winkel
Cross-Country: Bill Cornell
Football: Rey Dempsey
Golf: Mary Beth McGirr

Gymnastics (Men): Bill Meade
Swimming: Bob Steele
Tennis: Dick LeFebvre
Track: Lew Hartzog

Coaches (Women's Athletics)

Basketball: Cindy Scott
Cross Country: Claudia Blackman
Field Hockey: Julie Illner
Golf: Mary Beth McGirr
Gymnastics: Herb Vogel

Softball: Kay Brechtelsbauer
Swimming and Diving: Tim Hill,
Dennis Golden
Tennis: Judy Auld
Track and Field: Claudia Blackman

Athletic scholarships are awarded by coaches of individual sports. Applicants interested in obtaining more information on athletic scholarships are encouraged to contact the coach in the area of their interest.

Intercollegiate Athletics for Men

Telephone: 618-453-5311
Football Office: 618-453-3331
Location: Arena 118

Intercollegiate Athletics for Women

Telephone: 618-536-5566
Location: Davies Gym

Intramural Athletics (Men and Women)

SIUC provides extensive opportunities for students to participate in intramural athletics. Competition in a variety of sports is available. In addition, a new 140,000 square foot recreation building is now in operation.

Intramural Athletics Office: 618-536-5531

MOTOR VEHICLES

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 motor vehicles 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 or 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 who is certified in writing by the Office of Student Work and Financial Assistance to require a motor vehicle for purposes of employment.
7. A student not covered by 1 through 6 preceding whose reason for requiring a motor vehicle is judged valid by the appropriate dean of students and so certified in writing.

APPLICATION AND FEE

Each applicant must present a valid operator's license, vehicle registration card or notarized license-applied-for receipt, proof of liability insurance, and 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-\$30.

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 the Student Center meters during the posted hours.
4. Temporary permits may be issued in unusual circumstances, and can be obtained from the Parking Division Office.
5. Guest permits are available to University visitors and offices, guests of University housing residents and guests of the Baptist Student Center free of charge.

For additional information or parking brochure contact:

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

UNIVERSITY RECOGNITION OF HIGH SCHOLASTIC ACHIEVEMENT

A Scholastic Honors Day convocation is held each spring to honor students exhibiting high scholastic achievement. Candidates for a bachelor's degree in May or August who have maintained a grade point average of 3.50 or higher for all of their work through the fall semester of their senior year receive special honor. All other students having a 3.50 average are also honored at the convocation. The 3.50 average is required for all work taken at SIUC and, in the case of transfer students, for the total record. Except in the case of graduating students, students must be attending full-time to be eligible.

Graduating students with scholastic averages of 3.90 or higher receive University highest honors; those with 3.75 - 3.89 averages receive University high honors; and those with 3.50 - 3.74 receive University honors. This is recorded on the student's academic record cards and on their diplomas. The averages are required for the work taken at Southern Illinois University at Carbondale and, in the case of transfer students, for the total record.

Successful participants in all-campus honors programs which require maintenance of appropriate minimal scholastic standards, such as the University Honors Program, receive recognition by notation on their academic records and on their diplomas. Honors courses, individual honors work, and honors curricula, all designed to serve students with high scholastic potential, are offered by departments in the School of Agriculture, the College of Human Resources, the College of Liberal Arts, and the College of Science. A departmental or 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 students' majors. Some honors programs require a comprehensive examination at the end of the junior year and again at the end of the senior year. Grades may be deferred at the end of the first semester, but not from one school year to the next.

At the end of each semester, a dean's list is prepared. The criteria for inclusion on the dean's list is 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.

A variety of professional, departmental, and fraternal honorary organizations offer recognition and membership based upon scholastic achievement. Election or selection to most honoraries is noted at the Scholastic Honors Day convocation.

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 class-room 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 may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027. To receive credit, students must earn a grade of 3, 4, or 5. Interested high school students should write the Office of Admissions and Records to learn the current listing of courses for which credit may be earned through this program.

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 Entrance Examination Board:

1. Physics: Consult Physics Department Chairperson
2. Chemistry: Chemistry 224 (5 sem. hrs) and 225 (2 sem. hrs) or
Chemistry 222A (4 sem. hrs.) and 222B (4 sem. hrs.)
3. Biology: GSA 115 (3 sem. hrs.)
4. History: European - History 200 (3 sem. hrs.)
American - GSB 300 (3 sem. hrs.) and GSB 301 (3 sem. hrs.)
5. English: GSD 101 (3 sem. hrs.)

6. Foreign Languages: Consult chairperson, Department of Foreign Languages and Literatures
7. Mathematics: Calculus AB: Mathematics 150 (four sem. hours) Calculus BC: Mathematics 150 & 250 (8 sem. hours)
8. Music: Consult Director, School of Music
9. Art: Consult Director, School of Art

COLLEGE LEVEL EXAMINATION PROGRAM - Policy Effective Summer 1981

Through the General Examinations of the College Level Examination Program (CLEP), students may apply for credit which will substitute for General Studies 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 Studies mathematics requirement.

A student who scores 675 or above on the CLEP English examination will receive five semester hours credit (three semester hours GSD 101 and two semester hours GSD 117). A score of 650 to 674 entitles a student to (a) advanced placement in GSD 120, Freshman Honors Composition, and (b) five semester hours credit upon the satisfactory completion of GSD 120 with a grade of C or higher (three semester hours GSD 120 and two semester hours GSD 117).

Transfer students who enter SIUC with CLEP credit on their transcript for all but English will receive that credit here with no reduction in hours. Transfer students desiring CLEP General English credit must submit an official score report for evaluation.

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 or ALPHA programs. Such students receive university credit for courses taken during the Early Admission or ALPHA experience, and for the CLEP credit earned. An exception is also made for those students who previously received a grade or audit in a college level Black American Studies course (since this subject matter is not included in the CLEP tests). Such students will receive both course credit and CLEP credit earned. The science exam includes botany, microbiology, physiology, zoology, chemistry, physics, earth science, geography, and all General Studies 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 Studies 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 Studies Area C courses; philosophy--aesthetics, ethics, general survey. The mathematics test includes all college level mathematics.

Student may be exempted from all General Studies 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--675; and mathematics--580, and (2) become members of the University Honors Program. No retroactive extension of this CLEP privilege will be allowed.

For further information, students should consult their academic advisor.

CLEP examinations should be taken at one of the national testing centers and the results are then forwarded to the Office of Admissions and Records for evaluation.

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 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 departments. 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.

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

The Cooperative Education Program, included in the Career Planning and Placement Center, 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.

SCHOOL OF TECHNICAL CAREERS INDIVIDUALIZED BACCALAUREATE PROGRAMS

The University provides an opportunity to continue educational pursuits toward a baccalaureate degree for students possessing an occupational, technical, or other similarly connotated educational background. The School of Technical Careers offers a Bachelor of Science degree in technical careers programs for such students. Individually designed programs are developed to meet the individual needs of the students. Programs do not duplicate baccalaureate programs already offered by other academic units.

The regular University baccalaureate admission and other academic requirements and regulations are followed in the technical careers program. A more detailed description appears later in this catalog under "Technical Careers."

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.

Students interested in the University Studies degree program should come to Woody Hall, Room C117, to pick up the guidelines for the program.

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 dean, General Academic Programs.

CAPSTONE PROGRAM

The Capstone Program is a program 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. It is a two-year program that gives maximum credit for previous academic and work experiences in the student's occupational field. The purpose of a Capstone Program 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 Program are: (1) It is for selected occupational students who have changed their educational and occupational goals; (2) It is an alternative baccalaureate degree program involving 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 Program at Southern Illinois University at Carbondale can lead to the Bachelor of Science degree in any of the following areas:

School of Agriculture
Agribusiness Economics
Agricultural Education
Agricultural Education and
Mechanization
Agriculture, General
Animal Industries
Plant and Soil Science

College of Education
Business Teacher Education
Home Economics Education
Occupational Education

College of Human Resources
Administration of Justice
Child and Family
Clothing and Textiles
Food and Nutrition

College of Engineering and Technology
Industrial Technology

School of Technical Careers
Baccalaureate degree programs--individualized programs

Requirements for the Bachelor of Science Degree Through Capstone

A student completing the degree through the Capstone Program must complete the hour requirements, residence requirements, and average requirements that are required for all bachelor's degrees. The specific course requirements for the Capstone Program are explained below.

The following General Studies requirements must be satisfied:

Science	6 semester hours
Social Science	6 semester hours
Humanities	6 semester hours
Health and Physical Education	3 semester hours
English Composition	one course
Mathematics	one course
Speech	one course
Minimum Total	30 semester hours

In addition to the General Studies 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 Program

To be considered for the Capstone Program, the following basic conditions must be met:

1. Admission to the University and to the department offering the capstone option must be completed. An application to the Capstone Program cannot be considered prior to official admission into the University.
2. The applicant must complete an associate degree program or its equivalent certification.
3. The applicant must have a minimum grade point average of 2.25 (4.0 grading scale) as computed by Southern Illinois University at Carbondale and according to regular University grading policies and procedures.
4. The applicant must file the application for the Capstone Program no earlier than one term prior to the intended entry into the program and no later than the completion of the first term of attendance at Southern Illinois University at Carbondale. Southern Illinois University at Carbondale students need to submit the application during the term preceding or just following completion of associate degree requirements.

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

Additional information concerning "Capstone" admission requirements, application and procedures, can be obtained from the Office of Admissions and Records. Contact: Capstone Program, Southern Illinois University at Carbondale, Office of Admissions and Records, Carbondale, IL 62901. Telephone: 1-618-453-4381 or toll free in Illinois 1-800-642-3531.

SCHOLASTIC STANDARDS

The matter of scholastic standing is quite often of importance to students both while in school and later when they present a transcript of their educational record in support of their application for employment or additional schooling.

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, what his or her scholastic standing is and what his or her grade point average is for the semester or session, and for his or her over-all record. 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 students are removed from probation.

The significance of the above should be clearly understood by transfer students when studying the general baccalaureate degree requirements. A 2.00 (C) average is required for the work taken at this University.

In computing students' grade point averages all grades of A, B, C, D, E 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 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 Southern Illinois University at Carbondale 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 Southern Illinois University at Carbondale 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 which the students are enrolled.

CONDITIONAL STATUS

Students admitted on condition are on scholastic probation for the term admitted. In addition, they must enroll for a minimum of twelve semester hours and complete ten semester hours of graded work (A,B,C,D,F). Students admitted on condition who meet the hour requirements will be placed in good standing when they earn a "C" (2.0) average or higher. They will remain on scholastic probation if they earn less than a "C" average but six or fewer negative points. Students who earn more than six negative points will be scholastically suspended.

TRANSFER STUDENTS ADMITTED ON PROBATION

Transfer students admitted on scholastic probation will remain in that status until they have a minimum of 12 semester hours of credit with at least a "C" average at Southern Illinois University at Carbondale. If they earn below a "C" for any session while on scholastic probation, they will be placed on scholastic suspension.

SCHOLASTIC SUSPENSION

Students will be scholastically suspended from Southern Illinois University at Carbondale if they fail to meet the requirements of their conditional or 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.

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 Southern Illinois University at Carbondale or at any other approved four-year institution, except that the residence requirement must be met.
2. An associate degree in a baccalaureate-oriented program from an accredited institution will be accepted as meeting all of the General Studies 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 Studies courses.

UNIT OF CREDIT

Southern Illinois University at Carbondale converted from the quarter to early 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 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 through 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 as 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 Student Work and Financial Assistance 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 STUDIES FOR THE TRANSFER STUDENT

A transfer student with an associate degree in a baccalaureate oriented program from a regionally accredited institution will be accepted as meeting all of the general education (General Studies) 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 Studies courses. A transfer student without this degree who expects to graduate from Southern Illinois University at Carbondale must meet the General Studies requirements. These requirements need not be completed prior to transfer but must be fulfilled to meet the general graduation requirements.

General Studies Requirements

The General Studies Curriculum for the baccalaureate degree is divided into five major areas; the requirements in each area are listed below.

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 course work from Areas A, B, and/or C	3
Area D Organization and Communication of Ideas	11
Area E Human Health and Well Being	4
Total	45

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 course work 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 4 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 (GSA)

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
125	3	Systems Nature of Our World
202	3	Space Science Astronomy
208	1	Laboratory Experiences in Physiology
209	3	Principles of Physiology
211	3	Geology of National Parks
220	3	Survival of Man
221	3	Survival of Man
230	3	Energy and the Future
240	3	Ecology
302	3	Psychobiology
303	3	Ferns, Trees, and Wildflowers
312	3	Conservation of Natural Resources
313	2	Evolution
314	2	Human Heredity
321	3	Fossils: Keys to Ancient Life and Environment
322	3	Earth's Mineral Resources
323	3	Introduction to Gems and Gem Material
324	3	Water: Our Friend and Enemy
330	3	Weather
356	3	Creativity in Science and Technology
361	3	Acoustics of Music

Area B: Our Social Inheritance and Social Responsibilities (GSB)

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

103	3	Geography of the Human Environment
104	3	The Human Experience: Anthropology
105	3	The Contemporary World
109	3	Introduction to Black America
111	3	Economic Development of Western Civilization
112	3	Comparative Economic Systems
125	3	Systems Nature of Our World
135	3	The Third World: The African Model
160	2	Mass Communications in Society
202	3	Introduction to Psychology
203	4	The Sociological Perspective
206	3	Applied Child Development
207	3	Contemporary Political Ideologies
211	3	Contemporary Economics
212	4	Introduction to American Government and Politics
220	3	Survival of Man
221	3	Survival of Man
223	3	The Sexes in the Modern World
231	2	The American Educational Systems
250	3	Introduction to Comparative Government and Politics
255	2	Regional Geography of the United States
270	3	Introduction to International Relations
300	3	Origins of Modern America, 1492-1877
301	3	Modern America from 1877 to the Present
305	3	Personal Finance
310	1	Current Events
321	3	Socialization of the Individual
325	3	Race and Minority Relations
330	3	Language and Behavior
341	3	Marriage as a Social Institution
346	3	Consumer Choice and Behavior
362	3	Science and Technology in Western Societies
378	3	Introduction to American Foreign Policy

Area C: Our Insights and Appreciations (GSC)

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 represented 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	2	Music Understanding
101	3	Introduction to Art
102	3	Problems in Philosophy
104	3	Moral Decision
107	2	Life, Leisure, and Recreation
109	3	Introduction to Black America
200	3	Oral Interpretation of Literature
201	3	Introduction to Drama
202	3	Introduction to Poetry
203	3	Introduction to Theater
204	3	Meaning in the Visual Arts
205	3	Innovation for the Contemporary Environment
206	3	Music as a Creative Experience
207	2	Aesthetics
208	3	Elementary Logic
210	3	Introduction to Fiction
212	3	Oriental Humanities

214	3	Oriental Philosophies
216	3	Types of Eastern Religion
217	3	Types of Western Religion
218	3	The Epic of Humanity
221	3	Survival of Man
222	3	Women and Men in the Modern World: Humanities
231	3	Greek Civilization
232	3	Roman Civilization
293	3-9	Studies in Literature
317	3	Recent American Literature
325	3	Black American Writers
330	3	Classical Mythology
335	3	The Short Story
340	3	The Western Cultural Tradition
349	3	The Cinema
351	3	Women in Literature
362	3	Science and Technology in Western Societies
365	3	Shakespeare
371	2	Evolution of Jazz
390	3	Contemporary American Thought
393	3-6	Studies in Literature

Area D: Organization and Communication of Ideas (GSD)

Area Requirements. A transfer student needs a total of no less than 11 semester hours of acceptable college level work in the area of communications. 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 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
104	2	Grammar in Language
106	0	Elementary Algebra
107	4	Intermediate Algebra
110	2	Economic and Business Statistics
112	2	Basic Concepts of Statistics
113	2	Introduction to Mathematics
117	2	Expository Writing
118	2	Technical Report Writing
119	2	Creative Writing
120	3	Freshman Honors Composition
152	2	Interpersonal Communication
153	3	Public Speaking
199a	1	Library as an Information Source
199b	1	Computers and Communication

Area E: Human Health and Well-Being (GSE)

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 14	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
*114	1 to 4	Intermediate Individual and Dual Activities
201	2	Healthful Living
236	2	Nutritional Ecology
240	2	Human Relations Between the Sexes

*Consult University Catalog p. 94 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 Studies requirements are not applicable to community college transfer students who have received an associate degree within a 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 Studies requirements by making certain approved substitutions of departmental courses for specified General Studies 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 Studies 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 Studies course. Community colleges who have comparable courses are encouraged to submit course descriptions for departmental approval.

General Studies Course	Approved Substitutes
GSA 101-3	One of: Physics 203, 204, 205, 253, 254, 255, or 3 semester hours of technical physics. (The substitution of Physics 253, 254, or 255 is limited to one semester hour.)
GSA 106-3	One of: Chemistry 115, 140, 222, 224, 225 or 4 semester hours of technical chemistry
GSA 110-3	Geology 220
GSA 115-3	One of: Biology 306, 308, 309; Botany 200; Zoology 118
GSA 202-3	One of Physics 203b, 204b, or 205b
GSA 208-1 and 209-3	Phsl 210, Anl 331, or military credit for physiology
GSA 240-3	Biology 307
GSA 314-2	Biology 305
GSA 330-3	Military Credit for Meteorology
GSA unassigned-1 to 12	One to 12 semester hours from University Honors 251a and/or 351a
GSB 103-3	Geography 300
GSB 211-3	One of: Agribusiness Economics 204; Economics 214, 215
GSB unassigned-1 to 12	One to 12 semester hours from University Honors 251b and/or 351b
GSC 100-2	Music 101 or 102 or two hours of 013, 014, 017, 020, 021, or 022
GSC 101-3	Art 100
GSC 204-3	Art 207
GSC 206-3	Music 105a
GSC 293-3	English 209
GSC Foreign Language-4	Foreign Language

(Note: A student may substitute on an hour-for-hour basis to a maximum of 4 hours, provided the student has taken GSC courses totaling 5 hours in two other disciplines. Any additional hours of foreign language may be counted toward the 3 hours of additional course work required in areas A/B/C.)

GSC unassigned-1 to 12	1 to 12 semester hours from University Honors 251c and/or 351c
GSD 101-3	Linguistics 101
GSD 107-4	One of: Mathematics 110, 111, 114, 116, 117, 139, 140, 150, 151, 159, 250, 259, 282, or 4 semester hours of technical mathematics
GSD 117-2	Linguistics 102
GSD 118-2	One of: Administrative Sciences 302, Linguistics 103, or 2 semester hours of technical writing
GSE 101-114-4	Four semester hours from: Physical Education 115, 116, 117, 118, 119, 120, 170
GSE unassigned-1 to 4	1 to 4 semester hours from University Honors 251e and/or 351e
GSE 201-2	Health Education 350
GSE unassigned-1 to 4	ROTC Field Training

A maximum of 15 semester hours of comparable technical coursework can be substituted for General Studies requirements. Some of these substitutions are listed above; others may be possible on individual request to the Dean of General Academic Programs.

EVALUATION OF TRANSFER CREDIT

Transfer credit for students admitted to the University is evaluated for acceptance toward University and General Studies 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. The Office of Admissions and Records will determine the acceptance of credit and its applicability toward completion of University and General Studies 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 not applied to General Studies 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 Studies 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 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 at Carbondale 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 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 General Academic Programs 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 evaluated at SIUC. For the General English CLEP credit to be evaluated, transfer students must submit official scores of the General 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-equivalent 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, the number of weeks and the number of hours per week in lecture and laboratory for each subject, and the grade received. There should 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 and honorable discharge allows six semester hours including 2 in physical education, 2 in health education, and 2 in aerospace studies.

Service of six months to a year allows 2 hours in aerospace studies only.

Service of less than six months allows no credit.

Credit will be accepted for DANTES Subject Standard Tests within the limitations enforced for extension and correspondence work. 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 evaluation purposes.

Repeating Courses and the G.P.A.

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

The University does not calculate an entering transfer grade point average; rather, a transfer's GPA is based solely on work taken at this University.

PRE-PROFESSIONAL PROGRAMS

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), General Academic Programs (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 or 3 years)
Medicine (including Osteopathic) (3 or 4 years)	Podiatry (3 to 4 years)*
Nursing (3 or 4 semesters)	Theology (2 to 4 years)*
Optometry (3 to 4 years)	Veterinary Medicine (3 or 4 years)

In addition to these pre-professional programs, the University offers professional curricula in dentistry (Edwardsville), engineering, law, medicine, 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, medical, osteopathic medical, 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.

GENERAL ACADEMIC PROGRAMS

Generally concerned with the freshman and sophomore years, General Academic Programs offers academic support programs designed to enhance opportunities for success for all its students.

General Studies

The general education requirements are satisfied through the General Studies program.

The student is required to have a total of 45 hours in the five areas of General Studies. There is considerable flexibility in the program and the transfer student should have little difficulty in meeting the General Studies requirements.

A student who graduates with an associate degree in a baccalaureate-oriented program from a Class I Illinois two-year institution, or one regionally accredited, is considered to have met the General Studies requirements.

Pre-Major Advisement Center

Pre-Major Advisement is the academic home for all students who wish to explore one, two, or several major fields before choosing their career goals. The Pre-Major Advisement Center provides each student with an experienced academic advisor who knows the requirements for all major programs and who will offer assistance in selecting an appropriate course of study.

University Honors Program

The University Honors Program is designed to enable academically talented students to profit from an association with each other; to achieve maximum flexibility within the framework of the general University curriculum; and to take fullest advantage of the talents and resources in the University.

Inquiries about the program should be addressed to the Director of Honors Opportunities, General Academic Programs.

Special Major

A student whose academic needs are not met by existing baccalaureate programs may arrange a special undergraduate degree program in lieu of a standard curriculum. For guidelines inquire at the office of the Dean of General Academic Programs.

University Studies Program

The University Studies Degree Program exists for those students who wish to take a broader approach to their education by not specializing. Students may work toward either a Bachelor of Arts or Bachelor of Science degree in University Studies.

Students interested in the University Studies Degree Program may pick up the guidelines in the Pre-Major Advisement Center. After ascertaining eligibility for the program the student should then consult with the University Studies advisor.

Center for Basic Skills

The Center for Basic Skills is designed to enhance success for students deficient in basic skills but who demonstrate the potential for college work, and to offer services to students interested in improving their reading, writing and/or mathematics skills. The Center offers courses in the basic skill areas of reading, writing, and mathematics. It also offers individualized instruction and tutoring in these areas. Diagnostic testing is available to assist students in analyzing their basic skills competency. Interested students should direct their inquiries to the Director of the Center for Basic Skills.

Special Supportive Services

This program is designed for students with academic potential who are from culturally and economically disadvantaged backgrounds to provide an academic support system. The identification process focuses on modified admissions criteria that emphasize motivation and require a personal interview to be admitted. The specialized services offered through the program include, but are not limited to, providing: (1) personal and career counseling and guidance; (2) curricular and instructional methods in special classes that enable the participants to complete required and prerequisite courses in a reasonable period of time; (3) a comprehensive tutorial program that will afford program participants an opportunity to study at Southern Illinois University at Carbondale; and (4) other special services that are consistent with the goal of recruiting, retaining, and graduating the target population.

Eligible participants must be citizens of the United States and conform economically to federal income and educational standards unless they are physically handicapped.

SCHOOL OF AGRICULTURE

Majors in the School of Agriculture at SIUC have a new look! Traditionally agriculture majors were almost exclusively farm-reared boys, but the current agricultural student body is not limited to persons from farms nor to men. Urban youth who are concerned about ecology, and improving the environment, about increasingly imminent world-wide food shortage, also find relevance and meaningfulness in curricula in agriculture and forestry. Also, women, from both rural and urban backgrounds, are joining the agriculture and forestry student ranks in rapidly increasing numbers, and now comprise about 30 percent of the undergraduate enrollment. Women and other minority group graduates enjoy very favorable employment opportunities in agriculture.

The curricula of the five departments of the School of Agriculture which are presented on the following pages provide opportunity for students with a wide range of interests and abilities in various combinations of the physical, biological, and social sciences to 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. Persons trained in agriculture are needed and they can serve mankind 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 industry.

FACILITIES: The offices, classrooms and laboratories of the School of Agriculture are located in the Agriculture Building. Additional SIU-owned facilities which are devoted to teaching and research in the School of Agriculture include nearly 2,000 acres of farm and timber land, 15,575 square feet of greenhouse space, and a special center devoted to each of six species of livestock.

ACCREDITATION: North Central Association of Colleges and Secondary Schools.

DEGREE OFFERED: Bachelor of Science.

MEMBERSHIP: National Association of State Universities and Land-Grant Colleges.

GRADUATE PROGRAMS: The School of Agriculture has programs leading toward the Master of Science 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 School of Agriculture, the Graduate School, or the Graduate Catalog.

ORGANIZATIONS: Scholastic and Professional Honoraries: Alpha Zeta (agriculture), Pi Alpha Xi (floriculture and ornamental horticulture), and Xi Sigma Pi (forestry). Special Interests: Alpha Gamma Rho Chapter. Departmental: Agricultural Mechanization Club; Agriculture Economics Club; Agribusiness Economics Graduate Student Club; Agriculture Student Advisory Council; Block and Bridle Club; Forestry Club; N.A.M.A. Club; Plant and Soil Science Club; Society of American Foresters Student Club; Dairy, Horticulture, Livestock, Poultry, and Soil Judging Teams; and Collegiate FFA.

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. Also, approximately one-half of the credit for occupational and technical courses may be accepted to apply as agricultural electives. (The rest will be accepted by the University as elective credit.) For transfer students wishing to pursue a concentration in one of the agricultural 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 college algebra should be included. All majors within the School of Agriculture must have work in: mathematics; botany or zoology or biology; chemistry; economics; and speech.

Graduates of occupationally oriented programs should inquire into the possibilities of entering the School of Agriculture under the Capstone Project. This special program is explained in another section of this handbook.

FOR FURTHER INFORMATION:

Chief Academic Advisor
School of Agriculture
Phone 618-453-2469

Chairman of (state major)
School of Agriculture

Admissions Office
Woody Hall
Phone 618-453-4381

Southern Illinois University at Carbondale
Carbondale, Illinois 62901

COLLEGE OF BUSINESS AND ADMINISTRATION

The College of Business and Administration, located in the General Classrooms Building, 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 (AACBS), and North Central Association of Colleges and Secondary Schools.

DEGREES OFFERED: Bachelor of Science.

Accounting	Business Economics
Administrative Science	Finance
Management	Financial Management
Decision Sciences	Financial Institutions
Business and Administration	Marketing

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.

RETENTION POLICY: In order to remain in the College of Business and Administration, university retention standards must be met, and before the junior year (56 hours of credit), a student must have completed with a minimum grade of C at least five of the following seven courses or equivalencies: GSD 101; GSB 202; Mathematics 116 and 117 or 139 and 140; Economics 214, Accounting 221; and Administrative Sciences 208. Transfer students with more than 56 hours upon entering the College of Business and Administration who have not completed at least five of the seven courses with the minimum C grade must do so within one semester in order to remain in the College of Business and Administration. Students who have completed 42 or more hours without completing at least five of the prescribed seven courses will be given a warning of possible termination from the College of Business and Administration.

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.

Courses	Semester Hours
Principles of accounting	6.0
Cost accounting	3.0
Economic principles	6.0
Business/economic statistics	3.0
(where college algebra is a prerequisite)	
Basic computer course ¹	3.0

Additionally, three semester hours of introduction to business and six semester hours of business law (3 hour contract and agencies; 3 hour sales, commercial paper and secured transactions) completed at the lower division level are acceptable in satisfaction of department requirements, in those programs where these courses are required. Nothing in this statement abridges a student's right to satisfy graduation requirements by proficiency examination.

¹ Computer coursework completed at other universities and colleges will be accepted as transfer credit for the College of Business and Administration core computer requirement if that course is designed to teach one and only one of the following languages: Fortran, Basic, Cobal, RPG, PL1, and Algol; courses that survey numerous languages are not acceptable. Further, coursework with emphasis on unit record or data processing equipment will not be considered equivalent to the college's computing requirement. Acceptable coursework should have a one-language base and present the student with advanced programming concepts, e.g., loops, arrays, etc.

COLLEGE OF COMMUNICATIONS AND FINE ARTS

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

School of Art
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 in the next section of this catalog.

DEGREES OFFERED: Bachelor of Arts - Art, Cinema and Photography, Music and Theater
Bachelor of Music
Bachelor of Science - Communication Disorders and Science,
Journalism, Radio/Television, and Speech
Communication

GRADUATE PROGRAMS: Master of Arts degree in Journalism, Public Visual Communication, and Speech Communication; 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, and Speech Communication.

For specific information concerning graduate work, a student should consult 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

Admissions Office
Woody Hall
Phone 618-453-4381

Southern Illinois University at Carbondale
Carbondale, Illinois 62901

COLLEGE OF EDUCATION

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 nine academic departments: Curriculum Instruction and Media; Educational Leadership; Guidance Educational Psychology; Health Education; Higher 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 Secondary 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 201, 301, 302, 303, and 312, 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, i.e., equivalents of Education 201, 301, and 303. 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 3 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 201, 301, 302 and 303 as well as methods and clinical experiences. For students who attended community colleges which have not articulated this requirement in equivalent courses, a special needs learner course may be taken at SIUC. Further information on articulation of courses may be obtained from the Coordinator of Teacher Education Services, College of Education, Wham Education Building.

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:

M. Frances Giles
Coordinator of Teacher Education Services
College of Education
Phone 618-453-2354

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 at Carbondale 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> ²
Agricultural Education	X	
Art	X	
Biological Sciences	X	X
Black American Studies		X
Botany ¹	X	X
Business Education	X	X
Chemistry	X	X
Earth Science		X
Educational Media		X
English	X	X
Foreign Languages	X	X
Geography	X	X
Health Education ³	X	
History	X	X
Home Economics Education	X	
Language Arts (English and Reading)	X	
Mathematics	X	X
Microbiology		X
Music	X	X
Occupational Education (Trades and Industries)	X	
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 ¹	X	X

¹ A student with a major in botany or zoology should have a minor in the other in order to meet certification standards for teaching biology at the high school level.

² All minors used for certification purposes must include a minimum of 18 semester hours.

³ Driver Education is offered for certification purposes in the Department of Health Education.

M. Frances Giles
Coordinator of Teacher Education Services
Telephone - 618-453-2354
Location - Wham Building, Room 135

COLLEGE OF ENGINEERING AND TECHNOLOGY

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, in varying degrees, commensurate with the objectives of the particular program.

Offices and most of the facilities of the College of Engineering and Technology are located in the engineering and technology complex by the Lake-on-the-Campus.

ACCREDITATION: North Central Association of Colleges and Secondary Schools; Accreditation Board for Engineering and Technology (ABET), formerly known as the Engineers' Council for Professional Development (ECPD), for Engineering and Engineering Technology; National Association of Industrial Technology for Industrial Technology.

DEGREES OFFERED:

Bachelor of Science - 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. For specific information concerning advanced degree work a student should consult the College of Engineering and Technology, the Graduate School and the Graduate Catalog.

ORGANIZATIONS: Organizations in which students in the College of Engineering and Technology may participate--the student chapters of various professional and technical societies. Engineering students with high scholastic achievement may be recognized through invitation for membership to the SIUC chapter of Tau Beta Pi, a national engineering honor society.

NEW UPPER LEVEL ADMISSION AND RETENTION REQUIREMENTS: Students interested in any of the programs offered by the College of Engineering and Technology will be coded under a "pre-" category for admission to the University. Admission to the upper level sequences depends upon grades in specified prerequisites. See section under "Admission Policies and Requirements" for details.

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 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

Admissions Office
Woody Hall
Phone 618-453-4381

Southern Illinois University at Carbondale
Carbondale, Illinois 62901

COLLEGE OF HUMAN RESOURCES

The College of Human Resources offers the following majors leading to the Bachelor of Science degree:

Administration of Justice	Food and Nutrition
Child and Family	Interior Design
Clothing and Textiles	Social Welfare
Family Economics and Management	

The College also offers a Design major leading to a Bachelor of Arts degree.

No specific unit requirements. Consult degree programs in catalog and handbook for specific degree requirements.

COLLEGE OF LIBERAL ARTS

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.

African Studies ¹	English	Paralegal Studies ²
Anthropology	French	Philosophy
Asian Studies ¹	Geography	Political Science
Chinese ¹	German	Psychology
Classical Civilization ¹	Greek ¹	Religious Studies
Classics	History	Russian
Comparative Literature ¹	Japanese ¹	Sociology
Computer Science	Latin ¹	Spanish
Earth Science ¹	Latin American Studies	Speech Communication ³
East Asian Civilizations ¹	Linguistics	Uncommon Languages ¹
Economics	Mathematics	Women's Studies ¹

¹Minor only.

²The program will begin accepting majors in Fall 1983.

³Liberal Arts major, not professional major.

College Requirements Effective Fall, 1978

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

1. University requirements including those relating to General Studies, 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 course work at the 300- or 400-level.
4. The Liberal Arts student must complete one year or not less than six semester hours of a foreign language. In addition to General Studies requirements, he or she must complete one course in either mathematics or computer science and one course in English composition. General Studies courses may be used to satisfy the latter requirement only with prior approval of the dean.

Students should consult with an advisor at an early stage in their college career regarding any problems related to these requirements. Similarly, those planning to attend schools of law, health-related or other fields must plan their curriculum carefully and choose courses of depth and rigor. They should be in close contact with their academic and departmental advisors.

COLLEGE OF SCIENCE

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	Pharmacy
Medicine	Physical Therapy
Optometry	Veterinary Medicine
Osteopathy	

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 Studies courses, but may be substituted for the latter in meeting the General Studies requirements.

FOREIGN LANGUAGE: The foreign language requirement can be met by one of the following: (a) passing an 8-hour, 100-level sequence in one language or a 5-hour review course in French or Spanish; (b) earning 8 hours of 100-level credit in one language by proficiency examination; or a 5 semester hour review course in French or Spanish; (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 at Carbondale. 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.

MATHEMATICS: The mathematics requirement can be met by (a) passing Mathematics 110a,b (3,2) or Mathematics 111 (5) or its equivalent or Mathematics 140 (4), or (b) completing three years of high school mathematics with no grade lower than C and achieving a score on the University's Mathematics Placement Test which allows the student to enroll directly into Mathematics 150 (4).

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 Studies courses, but may be substituted for the latter in meeting the General Studies 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, and in the sciences.

SCHOOL OF TECHNICAL CAREERS

B.S. in Technical Careers
Allied Health Careers Specialties
Architectural Technology
Associate Degree in Nursing
Automotive Technology
Aviation Technology
Avionics Technology
Commercial Graphics--Design
Commercial Graphics--Production
Construction Technology--Building
Correctional Services
Dental Hygiene

Dental Laboratory Technology
Electronic Data Processing
Electronics Technology
Law Enforcement
Photographic Production Technology
Mortuary Science and Funeral Service
Physical Therapist Assistant
Radiologic Technology
Respiratory Therapy
Secretarial and Office Specialties
Tool and Manufacturing Technology

The School of Technical Careers, established in 1973, provides both two-year college-level programs and a unique baccalaureate program in technical careers. 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 School 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 the aviation technology program 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 Secondary Schools; Council on Dental Education of the American Dental Association; American Board of Funeral Service Educators.

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

Organizations

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

Transfer Students

Transfer credit is evaluated for acceptance towards University and General Studies (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 Studies program at STC 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). These courses are identical in most cases to those taught on the Carbondale campus, and credit earned in them is transferable if the STC associate degree student decides to continue beyond the two-year program.

For Further Information

Dean
School of Technical Careers
Phone 618-453-4381

Office of Admissions and Records
Woody Hall Phone 618-536-6682

Southern Illinois University at Carbondale
Carbondale, Illinois 62901

THE GRADUATE SCHOOL

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 of the region, the state, the nation, and a number of other countries.

The Graduate School offers master's degrees through 66 programs, the specialist degree in 4 areas, and the doctoral degree through 22 programs. Under the leadership of a graduate faculty of over 900 members, research and study by over 3,500 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.)	Guidance & Educational Psychology
Administration of Justice	Health Education
Agribusiness Economics	Higher Education
Agricultural Education & Mechanization	History
Animal Industries	Home Economics Education
Anthropology	Human Development
Art (M.F.A.)	Journalism
Behavior Modification	Latin American Studies
Biological Sciences	Linguistics
Botany	Mathematics
Business Administration (M.B.A.)	Microbiology
Business Education	Mining Engineering
Chemistry and Biochemistry	Music (M.Mus.)
Cinema and Photography (M.F.A.)	Occupational Education
Communication Disorders and Sciences	Philosophy
Community Development	Physical Education
Computer Science	Physics
Early Childhood Education	Physiology
Economics	Plant and Soil Science
Educational Administration	Political Science
Educational Media	Psychology
Elementary Education	Public Affairs (M.P.A.)
Engineering	Public Visual Communications
Engineering Biophysics	Recreation
English	Rehabilitation Administration & Services
English as a Foreign Language	Rehabilitation Counseling
Environmental Design	Secondary Education
Foreign Languages & Literatures	Sociology
French	Special Education
German	Speech Communication/Theater
Spanish	Statistics
Forestry	Zoology
Geography	
Geology	

Specialist degree programs are available in the fields listed below:

Educational Administration	Guidance & Educational Psychology
Elementary Education	Secondary Education

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

Anthropology	Mathematics
Botany	Microbiology
Business Administration (Doctor of Business Administration)	Molecular Science
Chemistry and Biochemistry	Philosophy
Communication Disorders and Sciences	Physiology
Economics	Political Science
Education	Psychology
English	Rehabilitation (Doctor of Rehabilitation)
Geography	Sociology
Historical Studies	Speech Communication/Theater
Journalism	Zoology

The Graduate School, as a part of Southern Illinois University at Carbondale, is fully accredited by the North Central Association of Colleges and Secondary 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.

SCHOOL OF LAW

The Southern Illinois University School of Law was founded in 1973 in response to the need for an additional legal education resource within the state. Increases in the size of the entering class each year should put the total student enrollment at 425-450 by 1985.

The school offers a three-year program leading to the Juris Doctor (J.D.) degree. Concurrent degrees (J.D./M.B.A., J.D./M.B.A., J.D./M.P.A., J.D./Masters in Accountancy) can be arranged. The school received full accreditation from the American Bar Association in August, 1980, and became a member of the Association of American Law Schools in January 1982.

A new and contemporary law building, occupied in 1981, houses classrooms, student lounges, administrative offices and the library, as well as a courtroom and large, in-house clinic facilities.

The faculty and student body of the school are of the highest quality, and its curriculum is designed to inculcate fundamental legal concepts and skills which every lawyer must have and which are the hallmarks of the profession of the law. In addition to the Socratic-casebook method, other teaching methods, including clinical, are utilized as the subject matter requires. The School of Law catalog can be obtained by writing to University Graphics. Information on admission to the SIUC Law School can be obtained by writing to:

Assistant Dean, 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.

SCHOOL OF MEDICINE

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; it emphasizes continuing education; and it is a center of health care planning and expertise.

The first year is conducted on the campus of SIUC. Students are instructed in the sciences basic to medicine. The remainder of the program, which leads to the M.D. degree, is increasingly clinical in its emphasis, and is 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:

Committee on Admissions
Southern Illinois University School of Medicine
P.O. Box 3926
Springfield, Illinois 62708

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.

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 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.

Professional Officer Course (POC)

Acceptance into the last two years of the program (POC) is competitive. It requires the successful completion of a physical examination and of the Air Force Officer Qualifying Test (AFOQT). 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.

Obligations

The GMC cadet is not obligated at any time. Cadets entering the POC must decide whether or not they will 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: The Air Force ROTC four-, three-, and two-year scholarships are available to qualified cadets. The Illinois State ROTC Scholarship is available to qualified students enrolled/accepted in Air Force ROTC at SIUC.

Veterans Commissioning Program

Qualified enlisted personnel enrolled in an SIUC resident center may enter the two-year (POC) AFROTC program at 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. We do, however, have a special need for Engineering, Mathematics, Chemistry, Computer Science, and Physics majors.

ARMY MILITARY SCIENCE (ARMY ROTC)

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 national guard). Students who complete the advanced course of studies six or more months prior to attaining a bachelor's degree, reservists and guardsmen participating in the simultaneous membership program, and students with guaranteed reserve forces duty can be commissioned in the United States Army Reserve or National Guard prior to graduating through the early commissioning program. Students entering active duty as reserve or regular Army officers must have a bachelor's degree. All students must meet University academic requirements and maintain satisfactory academic progress to enter or remain in the ROTC program. Enrollment in the basic course (freshman and sophomore years) is unrestricted and carries no military obligation.

Acceptance into the advanced course (junior and senior years, 300-level) is contingent on meeting academic, basic course, physical, age, test score (ACT/SAT or Cadet Evaluation Battery), citizenship prerequisites. Students may enter the advanced course anytime prerequisites are met regardless of their academic year in school. Students studying in any field of study at Southern Illinois University at Carbondale are eligible to enter the Army Military Science program. Students on Army ROTC scholarship and students in the advanced course do incur a military obligation. The nature of the obligation varies depending on whether the student is on scholarship, is receiving an early commission in the National Guard or Reserves, or goes on active duty. All Army Military Science scholarships and advanced course students are paid a monthly tax free subsistence allowance.

Any student, graduate or undergraduate, with at least two academic years remaining at the University, may participate in the advanced program. Students completing a six-week basic leadership practicum and veterans, students completing the basic course, and National Guard and United States Army Reserve personnel may enter the advanced course without completing the basic course. Advanced course students attend a six-week advanced camp between their first and second years of their advanced course. This training is conducted at an army post. Students are paid travel pay to and from camp, furnished room and board, and paid while at camp.

Freshman and sophomore students enrolled in the four-year program are eligible to compete for Army Military Science scholarships for one, two, and three years. These scholarships pay full tuition, fees, books, and a \$100 per month subsistence allowance. Any Southern Illinois University at Carbondale student who has at least two academic years of school remaining and who can meet advanced course prerequisites may compete for any Army ROTC scholarship. Illinois residents, who are enrolled in ROTC, can compete for state Army ROTC scholarships, which pay tuition and other selected expenses.

In addition to courses offered for academic credit, the Army Military Science program sponsors extracurricular activities. The Ranger Company and Color Guard is open to all Army ROTC students and the Pershing Rifles, a national honorary society, is open to selected Army Military Science cadets.

ENTRY LEVEL JOB TITLES

WHAT DO I DO WITH A DEGREE IN _____?

The Career Planning and 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 Career Planning and 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 Career Planning and Placement Center once they are enrolled.

For additional information, please contact the following placement consultants:

Agriculture	Michael Murray
Business and Administration	Marilyn DeTomas
Communications and Fine Arts	Michael Murray
Cooperative Education	Staff
Education	Jane Tierney
Engineering and Technology	Susan Rehwaldt
Human Resources	Valerie Brew Parrish
Liberal Arts	Barbara Costello
Science	Marilyn DeTomas
School of Technical Careers	Barbara Costello

Richard Gray Acting Director
Telephone - 618-453-2391
Woody Hall, B-204

ACCOUNTING

College of Business and Administration
(Bachelor of Science)

Dr. Bart A. Basi, Chairperson
Telephone - 618-453-2289
General Classrooms Bldg., Rm. 232

Accounting is the process of identifying, measuring, and communicating economic information to permit informed judgments and decisions by users of the information. Such information is required and used by parties external to the business and by management within the business.

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 Department of Accountancy has a working relationship with several national public accounting firms with whom the department 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 student 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 Department.

First Year		Fall	Spring
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
*GSB 202	Introduction to Psychology	3	-
GSC-3 or	Humanities (select) ¹ or Human Health and		
GSC-2	Well Being (select) ¹	3 (2)	-
GSC	Humanities (select) ¹	-	3
*GSD 101 &	English Composition & Writing (select) ¹	3	2
117, 118 or 119			
*MATH 116-5 or	Finite Mathematics & Algebra or		
139-3	Finite Mathematics	3 (5)	-
*ADSC 208	Interpretation of Business Data	-	4
		15 (16)	15
Second Year		Fall	Spring
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or	Intro. to Computer Programming (PL-I) or		
EDP 217	Computing for Business Admin. (Fortran)	-	3
*ECON 214, 215	Economics, Macro, Micro ²	3	3
*MATH 117-5 or	Finite Mathematics & Calculus or Short		
140-4	Course in Calculus	4 (5)	-
GSA	Science (select) ¹	-	3
*GSD 153 or 152	Public Speaking or Interpersonal		
	Communication	3 (2)	-
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health and		
	Well Being (select) ¹	3 (2)	-
GS- ---	General Studies Electives	-	3
		16 (15)	15

*Required course for a major in Accounting.

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

²Econ 214 or 215 counts toward GSB credit.

Accounting As A Major

Neither minor nor foreign language required.

Graduate degree 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 recognized by the American Assembly of Collegiate Schools of Business (AACSB).

See the College of Business and Administration listing for their retention policy. Furthermore, a 2.000 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 Accountancy 220, the prerequisite for Accounting 230.

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

ADMINISTRATION OF JUSTICE

College of Human Resources
(Bachelor of Science)

Joe Coughlin
Divisional Executive Officer
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, corrections, juvenile services and other roles in social and criminal justice.

Four areas of concentration--Law Enforcement, Correctional Program Services, Correctional Management, and 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. The policy of this Center, however, is to fit course requirements to the given student's career objectives if none of these concentrations are appropriate. In such situations, the student will be required to take the core courses, and, under the supervision of his or her advisor, develop an appropriate battery of courses in lieu of one of the four areas of concentration.

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>
GSA	Sciences (select) ¹	3	-
GSB 202	Introduction to Psychology	-	3
GSB 203	Sociological Perspective	4	-
GSB 212	Intro. to American Government & Politics	4	-
AJ 200	Introduction to Criminal Behavior*	-	3
GSC 102 <u>or</u> 104	Problems in Philosophy or Moral Decision	-	3
GSE	Human Health and Well Being (select) ¹	1	1
GSD 152 <u>or</u> 153	Interpersonal Communication or Public Speaking	-	2 (3)
GSD 101	English Composition	3	-
GSD 107	Math (Statistics suggested)	-	4
<u>or</u> 112 and 113		15	16 (17)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
AJ 201	Introduction to Criminal Justice System*	3	-
GSC	Humanities (select) ¹	3	3
GSA	Sciences (select) ¹	3	3
GSD 118	Technical Report Writing	2	-
GSE	Human Health and Well Being (select) ¹	1	1
AJ	Classes from AJ Core or AJ Concentration	-	6
GSA/B/C	Elective	3	-
Elective	Free Elective	-	3
		15	16

*Required courses for a major in Administration of Justice.

¹To determine what courses may be taken to satisfy the general education requirements, please refer to the section, General Studies. The specific general studies courses listed are highly recommended, not a requirement of the Administration of Justice Department.

The preceeding 2-year outline can be altered to meet the needs and abilities of the students.

Third and Fourth Year

The last two years of a student's program concentrate on specific career or professional objectives. The student must take the Division Requirement of 15 semester hours, plus meet the requirements of a chosen concentration from the following areas: Law Enforcement, Juvenile Justice and Delinquency Prevention, Correctional Program Services, Correctional Management or a concentration specifically designed and agreed upon with the student's faculty advisor to meet the career objectives of the student.

Administration of Justice As A Major

Graduate Degree program available.

No foreign language requirement.

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, Patrolman, Juvenile Delinquency Studies Specialist, Alcoholism & Drug Addiction Counselor, Delinquency Preventor, Community Planning & Redevelopment Officer, Morale Studies Specialist, Child Care Worker, Penology & Correction Researcher, Probation & Parole Administrator, Rehabilitation & Resettlement Analyst, Social & Behavioral Researcher, Outreach Director, YMCA-YWCA Director & Program Specialist, Prisoner Classification Interviewer, Public Aide, Caseworker.

ADMINISTRATIVE SCIENCES

College of Business and Administration
(Bachelor of Science)

Dr. William Vicars
Acting Chairperson
Telephone - 618-453-3307
General Classrooms Bldg, Rm 215

Undergraduate students in the Department of Administrative Sciences may select one of two areas of specialization which lead to the Bachelor of Science degree. Both programs of study emphasize the development of analytical capabilities and decision making skills for application in a wide variety of managerial settings.

The two specialized areas in which a student can choose a course of study are management and decision sciences. Both areas are designed to familiarize the student with current concepts and practices that can be used by managers to improve the performance of organizations and their members.

Approximately 20 percent of the total course work required for graduation is devoted to the administrative sciences specialization. These courses are in addition to the core required of all undergraduates in the College of Business and Administration. Students also are encouraged to extend their specialized academic interests through interdisciplinary course work in such fields as mathematics, computer sciences, sociology, psychology, and other University programs which have an administrative orientation.

Students frequently combine training in another specialty field with a program in administrative sciences in order to prepare themselves to assume managerial responsibility. While most graduates enter positions in business, many find administrative careers in such fields as aviation, corrections, agriculture, recreation, food services, health, government, and higher education.

First Year		Fall	Spring
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
*GSB 202	Introduction to Psychology	-	3
GSC	Humanities (select) ¹	6	3
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health and Well Being	3 (2)	-
*GSD 101 & 117, 118 or 119	English Composition & Writing (select) ¹	3	2
*MATH 116-5 or 139-3	Finite Mathematics & Algebra	3 (5)	-
*ADSC 208	Interpretation of Business Data	-	4
		15 (16)	15
Second Year		Fall	Spring
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or EDP 217	Introduction to Computer Programming (PL1) or Computing for Business Admin. (Fortran)	-	3
*ECON 214, 215	Economics, Macro and Micro ²	3	3
*MATH 117-5 or 140-4	Finite Mathematics and Calculus or Short Course in Calculus	4 (5)	-
GSA	Science (select) ¹	-	3
*GSD 153 or 152	Public Speaking or Interpersonal Communication	3 (2)	-
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health and Well Being (select) ¹	3 (2)	-
GS- ---	General Studies Electives	-	3

*Required course for a major in Administrative Sciences.

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

²Econ 214 or 215 counts toward GSB credit.

Administrative Sciences As A Major

Neither minor nor foreign language required.

Graduate degree 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 recognized by the American Assembly of Collegiate Schools of Business (AACSB).

See the College of Business and Administration listing for their retention policy.

The Society for the Advancement of Management in cooperation with the Department of Administrative Sciences sponsors annually 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 Studies 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.

The Agricultural Economics/Agribusiness curriculum is designed to prepare women and men for attractive careers in agriculture, industries that are related to agriculture, or to continue their professional development by entering graduate school. A few career opportunities include farm credit positions with banks, farm management and operation, grain merchandising, livestock buying and selling, farm supplies, research, public relations, and extension work.

In agricultural economics/agribusiness, courses are offered in the areas of farm management, agribusiness management, farm credit, agricultural prices, agricultural marketing, cooperatives, and agricultural policy.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
*GSA 106	Chemistry for Non-Science Majors	-	3
GSA	Physical Sciences ²	3	-
GSB	Social Science ²	-	3
GSC	Humanities ²	-	3
*GSD 101, 118	English Composition, Technical Report Writing	3	2
*GSD 107	Intermediate Algebra ³	4	-
GSE	Human Health and Well Being ²	1	1
*ABE 204	Introduction to Agricultural Economics ⁴	-	3
ANI 121	Science of Animals that Serve Mankind	3	-
ANI 122	Production and Processing Practices	1	-
		15	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*GSA 115	Introductory Biology	3	-
GSB	Social Studies ²	3	-
GSC	Humanities ²	3	3
GSD 110	Economic and Business Statistics	-	2
*GSD 153	Public Speaking ⁵	-	3
GSE	Human Health and Well Being ²	1	2
*ECON 214, 215	Economics - Macro, Micro	3	3
	Electives ⁶	3	3
		16	16

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

¹ There are two options available under the economics specialization: (a) 40 hours in agriculture which provides a broad training in agriculture or (b) 32 hours in agriculture which allows a secondary concentration in either economics or business.

² To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³ Mathematics IIOA, B or III (College Algebra and Trigonometry) are highly recommended.

⁴ ABE 204 can be substituted for GSB 211 (Introductory Economics).

⁵ GSD 152 may be substituted.

⁶ 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 study. About 20 hours of free electives are included in the last two years of this curriculum.

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

No minor required. No foreign language required. Internships are encouraged for the summer semesters. Masters degree available in Agricultural Economics and Ag Services. Class size 20-50; senior year 15-30. Department is sponsor for special workshops on campus. Students attending junior colleges without an agricultural program can easily complete an Agricultural Economics/Agri-business major in two years.

Representative First Job Titles: Agricultural Commodities Inspector, Agricultural Commodity Warehouse Examiner, Agricultural Economist, Agricultural Management Specialist, Agricultural Marketing Specialist, Agricultural Market Reporter, Agricultural Program Specialist, Agricultural Industry's Representative, Market Research Analyst, Farm Manager, Industrial Relations Specialist, Industrial Hygienist, Industrial Property Management Specialist, Agricultural Manager, Agribusiness Technician, Agricultural Engineer, Soil and Water Conservationist, Agriculture Business Manager, Feed and Seed Sales, Customer Service and Production Trainee, Livestock Buyer, Sales and Product Development Trainee.

AGRICULTURAL EDUCATION

(Vocational)
College of Education
School of Agriculture
(Bachelor of Science)

Dr. James Legacy, Chairperson
Telephone - 618-536-7733
Agriculture Building, Room 155

Completion of a four-year course of study in agricultural education leads to certification as a teacher of agricultural occupations. Men and women students have the opportunity to specialize in one of the following areas: agriculture business, agriculture mechanization, ornamental horticulture, plant production, soil conservation, parks and recreation, forestry, conservation, or animal production.

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 foreign 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>
GSA 115	Biology	3	-
GSA 106	Chemistry for Non-Science Majors ¹	-	3
GSB	Social Studies (select)	-	3
GSC	Literature (select) ²	-	3
GSD 101, 118	English Composition, Technical Report Writing ²	3	2
GSD 107	Intermediate Algebra ⁴	4	-
GSE 201	Healthful Living ²	2	-
ABE 204	Introduction to Agricultural Economics ³	-	3
AnI 121	Science of Animals that Serve Mankind	3	-
AnI 122	Production and Processing Practices	1	-
	Electives	2	2
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	-
GSB 202	Introduction to Psychology ²	3	-
GSB 212 or 300			
or 301	American Government or US History ²	-	3
GSC	Humanities (select)	-	3
GSD 153	Public Speaking ²	3	-
GSE	Human Health and Well Being ²	1	1
PLSS 200	Principles of Field Crop Production	-	3
Agriculture	Agricultural electives ⁵	3	3
	Elective	3	3
		<u>16</u>	<u>16</u>

Third and Fourth Years

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

¹ A student with background and interest in Chemistry is recommended to take a higher level of Chemistry.

² Courses required for certification include GSB 202; GSB 212, 300 or 301; GSD 101, GSD 117, 118 or 119; GSD 153; GSE 100-114 (2 hrs.) GSE 201; and one additional English course from GSC, GSD or department.

³ ABE 204 can be substituted for GSB 211a (Introductory Economics) or vice versa.

⁴ College Algebra recommended.

⁵ Student should consult with agriculture counselor regarding options available for agriculture electives.

Important - see requirements for entrance into Formal Teacher Education Program.

Agricultural Education As A Major

A student may select one of eight agricultural speciality 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 School of Agriculture and the College of Education are included.

The Agriculture 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>
*GSA 115	Biology	3	-
*GSA 106	Chemistry for Non-Science Majors ¹	-	3
GSB	Social Studies	-	3
GSC	Humanities ¹	3	3
*GSD 101	English Composition	3	-
GSD107	Intermediate Algebra ²	-	4
GSE	Human Health and Well Being	1	1
ABE 204	Introduction to Ag Economics ³	3	-
AnI 121	Science of Animals that Serve Mankind	3	-
AnI 122	Production and Processing Practices	1	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
		<u>17</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science ⁴	3	-
GSB 202	Introduction to Psychology	3	-
GSB	Social Studies	-	3
GSC	Humanities	-	3
GSD 153	Public Speaking	3	-
GSE	Human Health and Well Being	1	-
PLSS 200	Plant and Soil Science Course	-	3
Agriculture	Agriculture Electives	3	3
	Electives	3	3
		<u>16</u>	<u>15</u>

Third and Fourth Years

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

¹ A student with background and interest in Chemistry is recommended to take a higher level of Chemistry.

² College Algebra recommended.

³ ABE 204 can be substituted for GSB 211 (Contemporary Economics).

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

Agricultural Educational and Mechanization, Agriculture 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: Assistant County Extension Advisor; Product Education Specialist; Assistant Manager (Farm Supply Business); Agricultural Industry Representative; Agricultural Manager; Sales Representative.

The Agricultural Education and Mechanization curriculum with a specialization in agricultural mechanization 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 farm management careers, grain elevator operations, farm supply sales, public relations, operational positions in the processing industry, power use advisors with electric power supplying agencies and companies, selling field testing farm equipment and product education positions, and service representatives for the various power and machinery companies. 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.

First Year		Fall	Spring
*GSA 115	Biology	3	-
*GSA 106	Chemistry for Non-Science Majors	-	3
*ABE 204	Introduction to Ag Economics	-	3
GSB	Social Studies ¹	-	3
GSC	Humanities ¹	3	3
*GSD 101, 118	English Composition, Technical Report Writing	3	2
GSE	Human Health and Well Being ¹	2	2
*AnI 121	Science of Animals that Serve Mankind	3	-
*AnI 122	Production and Processing Practices	1	-
		15	16
Second Year		Fall	Spring
PHYS 203 a,b	College Physics	3	3
GSB	Social Studies ¹	3	-
GSC	Humanities ¹	-	3
*GSD 107	Intermediate Algebra ²	4	-
GSD 153	Public Speaking	-	3
*ACCT 210	Accounting Principles and Control	-	3
PLSS 200	Principles of Field Crop Production	3	-
	Elective	3	3
		16	16

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 55 semester hours in agriculture of which 27 hours are in agricultural mechanization and 28 semester hours of approved free electives. Elective courses may be taken in agriculture or supporting areas.

*Required or strongly recommended courses for agricultural mechanization majors.

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

²GSD 107 (Intermediate Algebra) is a minimum requirement. Math 110a-3 and 110b-2 (College Algebra and Trigonometry) are strongly recommended.

Agricultural Educational and Mechanization (Agricultural Mechanization As A Major)

Individuals do not need to have an agricultural background to enter the agricultural mechanization program.

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 Management Specialist, Agricultural Industry's Representative, Market Research Analyst, Farm Manager, Industrial Relations Specialist, Industrial Property Management Specialist, Agricultural Manager, Agribusiness Technician, Agricultural Engineer, Soil and Water Conservationist, Agriculture Business Manager.

General Agriculture is intended for those students who are seeking broad backgrounds in agriculture. It is the major of greatest flexibility within the School of Agriculture and is probably the best major for students who have not chosen a professional area for emphasis. Many agriculture students are graduated with a major in General Agriculture. Some students start as General Agriculture majors, later identify an area in which they want to specialize and transfer to the appropriate major for that specialty. Other students start in one of the specialized areas and later decide to transfer to and be graduated from General Agriculture. Possible specializations within the General Agriculture major include: Production Agriculture, Environmental Studies, Foreign Agriculture, and Country Living.

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>
CHEM 140a,b	Chemistry	4	4
GSB	Social Studies (select) ¹	-	3
GSD 101	English Composition	3	-
GSD 117, 118,			
or 119	Writing (select one) ¹	-	2
GSD 107	Intermediate Algebra	4	-
GSE	Human Health and Well Being (select) ¹	1	1
ABE 204	Introduction to Agricultural Economics ²	-	3
Anl 121 and 122	Science of Animals that Serve Mankind	3	-
Anl 122	Production and Processing Practices	1	-
BOT 200	General Botany ³	-	3
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA, B or C	Elective (select) ¹	-	3
GSB	Social Studies (select) ¹	3	-
GSC	Humanities (select) ¹	3	3
GSD 153	Public Speaking	-	2
GSE	Human Health and Well Being (select) ¹	-	2
PLSS 240	Soil Science	4	-
PLSS 220 or 200	General Horticulture or Principles of Field Crop Production	-	3
ZOO 118	Introductory Zoology ³	3	-
	Electives	3	3
		<u>16</u>	<u>16</u>

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

²Agribusiness Economics 204 substitutes for GSB 211 (Contemporary Economics) as well as counting as hours toward the major.

³Botany 200 and Zoology 118 substitute for GSA requirements.

Agriculture As A Major

Major requirements include a minimum of 8 semester hours of courses in each of the three departments within the School of Agriculture, plus additional elective courses in agriculture or forestry to complete a total of 40 semester hours.

No minor required; no foreign language required.

ALLIED HEALTH CAREERS SPECIALTIES

School of Technical Careers
(Associate in Applied Science)

Arch Lugenbeel, Supervisor
Telephone - 618-536-6682
STC Building, Room 18E

This program is designed to prepare specialists in combinations of two of the following areas: clinical respiratory therapy, clinical medical laboratory technology and clinical radiologic technology. The program leads to an associate degree.

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

In general, students take a common core of coursework applicable to all three specialties. This includes courses such as Physiology, Human Anatomy, English Composition, Speech, College Algebra, and other specialty-related studies.

Clinical studies in medical laboratory techniques, respiratory therapy, and radiographic techniques are built upon this basic coursework. The majority of the clinical portion of the program will be completed off-campus in health care facilities. With a third year of study and clinical experiences, students are eligible to take a National Registry Examination.

Students in the clinical portion of the program should expect to spend about \$100 per clinical specialty area for uniforms, materials, and insurance, in addition to tuition and fees.

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

ANIMAL INDUSTRIES

(Production Option)

School of Agriculture

(Bachelor of Science)

Dr. A. W. Young, Chairperson

Telephone - 618-453-2329

Agriculture Building, Room 127

Instruction, demonstration, and consultation are provided in companion animals, dairy, horse, livestock and poultry production, animal behavior, meats, pets, 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 studies 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>
GSA	Zoology, Botany, or Biology	4	-
GSB	Social Studies	3	3
GSC	Humanities	-	3
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Writing	-	2
GSD 107	Intermediate Algebra	-	4
GSE	Human Health and Well Being	1	1
AnI 121	Science of Animals that Serve Mankind	3	-
AnI 122	Production and Processing Practices of the Animal Industry	1	-
AG	Agriculture Elective	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 208, 209	Principles of Physiology and Lab	4	-
GSB	Social Studies	-	3
GSC	Humanities	3	3
GSD 153	Public Speaking	-	3
CHEM 140a,b	Chemistry ¹	4	4
AnI 215	Introduction to Animal Nutrition	2	-
GSE	Human Health and Well Being	2	-
Ag	Agriculture Elective	-	3
		<u>15</u>	<u>16</u>

¹Substitutes for GSA Chemistry.

Third and Fourth Years

Courses during the last two years of a student's program concentrate on requirements, electives in Animal Industries, other departments in the School of Agriculture as well as free electives.

Animal Industries As A Major

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, Animal Ecologist, Animal Taxonomist, Swine Herdsman, Animal Industry Representative, Animal Hygiene Specialist, Farm Manager, Dairy Cattle Manager, Agricultural Economist, Market Analyst, Product Evaluator, Cost-Benefit Analyst, Animal Control Biologist, Livestock Manager, Animal Nutrition Specialist, Dairy Products Tester, Poultry Manager.

ANIMAL INDUSTRIES
(Science and Pre-Veterinary Medicine Option)
School of Agriculture
(Bachelor of Science)

Dr. A. W. Young, Chairperson
Telephone - 618-453-2329
Agriculture Building, Room 127

Instruction, demonstration, and consultation are provided in companion animals, dairy, horse, livestock and poultry production, animal behavior, meats, pets, 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 studies the agronomic, agricultural economic, and agricultural business as related to animal production.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Social Studies	-	3
Biology	(core suggested)	4	4
GSD 101	English Composition	3	-
GSD 117, 118 or 119)	Writing	-	2
GSE	Human Health and Well Being	1-2	1-2
Anl 121	Science of Animals that Serve Mankind	3	-
Anl 122	Production and Processing Practices of Animal Industry	1	-
Math 110a,b	College Algebra and Trigonometry ¹	3	2
	Agriculture Elective	-	3
		<u>15-16</u>	<u>15-16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Social Studies	3	3
GSC	Humanities	-	3
GSA 208, 209	Principles of Physiology and Lab	4	-
CHEM 222a,b	Introduction to Chemical Principles ²	4	4
PHYS 203a,b	College Physics ³	3	3
PHYS 253a,b	College Physics Lab	1	1
Anl 215	Introduction to Animal Nutrition	2	-
	Agriculture Elective	-	3
		<u>17</u>	<u>17</u>

¹Substitutes for GSD 107 (Math).

²Substitutes for GSA 106 (Chem).

³Substitutes for GSA 101 (Physics)

Third and Fourth Years

In addition to completing General Studies Requirements and Chemistry, courses during the last two years of a student's program concentrate on requirements and electives in Animal Industries, other departments in the School of Agriculture as well as free electives.

Animal Industries As A Major

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 position.

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, Animal Ecologist, Animal Taxonomist, Swine Herdsman, Animal Industry Representative, Animal Hygiene Specialist, Farm Manager, Dairy Cattle Manager, Agricultural Economist, Market Analyst, Product Evaluator, Cost-Benefit Analyst, Animal Control Biologist, Livestock Manager, Animal Nutrition Specialist, Dairy Products Tester, 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 question 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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	2	-
Elective		3	-
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB	Social Science (select) ¹	3	-
GSC or FL	Humanities (select) ¹ or Foreign Language ²	3(4)	3(4)
GSD	Speech (select) ¹	2(3)	-
GSE	Human Health and Well Being (select) ¹	-	2
MATH or CS	or Computer Science ³	3	-
ANTH 300A,B	Physical & Linguistic Anthropology	3	3
ANTH 300C	Archaeology	-	3
		<u>14(16)</u>	<u>14(15)</u>

¹See General Studies for the Transfer Student.

²Two 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 GSC credit and three hours may be used to complete the three extra hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead. 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.

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

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: Human Biology & Physical Characteristics Researcher, Operations Research Analyst, Population Studies Anthropologist, Archival Worker, Archaeological Anthropologist, Exhibit Preparation Expert, Museum Engineer, Ethnohistorian, Ethnolinguistician, Rehabilitation & Resettlement Personnel, Systems Evaluator, Safety Personnel, Statistician, Sales Representative, Work Environment Officer, Anthropogeographical Researcher, Ethnologist.

The technically-trained person is able to work in the area between the draftsman who simply produces drawings of another's ideas and the licensed architect who creates, and will find a variety of positions available to him or her within the architectural profession.

A graduate of this program will have basic knowledge and skills for entry into this broad field, where he or she may advance into such specific areas as project coordination, specification writing, architectural inspection, structural and mechanical engineering and architectural design.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
STC 102	Technical Writing	-	2
STC 105a,b	Technical Mathematics	4	-
STC 107a,b	Applied Physics	-	4
GSD 153	Public Speaking	-	3
Arch 111	Architectural Drafting	7.5	-
Arch 112	Architectural Graphics	3.5	-
Arch 113	Architectural History	2	-
Arch 124	Architectural Drawings I	-	6
Arch 125	Architectural Design I	-	4
		<u>20</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 Engineering I	4	-
Arch 217	Architectural Systems	2	-
Arch 218	Architectural Surveying	3	-
Arch 224	Architectural Drawings III	-	6
Arch 225	Architectural Design III	-	4
Arch 226	Architectural Engineering II	-	4
Arch 229	Architectural Estimating	-	2
Arch 220	Architectural Specifications	-	2
		<u>19</u>	<u>18</u>

A minimum of 76 hours of credit must be completed for graduation.

Architectural Drafting As A Major

Instruction is provided by graduate architects, some of whom are licensed.

Field trips to nearby cities to study historical and contemporary architecture are made each year. Allowance should be made in the student's budget of approximately \$300 for equipment and supplies.

Technical courses taught by faculty with years of experience give you an understanding of the architectural and design professions and other components of the building industry, the design and production process, and the historical, mathematical, and physical factors involved. The program covers building materials, systems, and construction, as well as preparation and interpretation of technical communications such as architectural drawings, models, and architectural delineations.

Representative First Job Titles: Architectural Technician, Inspector, Specification Writer, Coordinator, Work Supervisor, Estimator.

ART
(Drawing)
(Painting)
(Printmaking)
(Sculpture/Foundry)
(Ceramics/Glassblowing)
(Metalsmithing/Blacksmithing)
(Fibers/Weaving)
(General Studio)
(Art History)
College of Communications and Fine Arts
(Bachelor of Arts)

L. Brent Kington, Acting Director
Telephone - 618-453-2571
Allyn Building, Room 109
Patricia B. Covington, Head
of Undergraduate Studies
Telephone- 618-453-2032
Allyn Bulding, Room 5

Undergraduate offerings in art provide introductory and specialized experiences. The courses of study offered, leading toward the Bachelor of Arts degree in art, require 58 hours of art in art history, 52 hours of art in general studio, and 72 hours of art in all other specializations.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
ART 100 a & b	Basic Studio	3	3
ART 107	Fundamentals of Art	3	3
ART 207	Survey of Art	-	3
ART 110	Intro to Drawing I	3	-
ART 120	Intro to Drawing II	-	3
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Expository, Technical Report or Creative Writing	-	2
GSC	Humanities ¹	3	-
GSB	Social Science ²	-	3
GSE	Human Health and Well Being	-	2
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
ART 200	Intro to Drawing III	3	-
ART 300	Intermediate Drawing	-	3
ART 201	Beginning Painting	-	3
ART 203	Beginning Sculpture	3	-
ART 346	Survey of 20th Century Art	3	-
ART 204, 205 or 206	Beginning Ceramics, Metals, or Fibers	-	3
GSA	Science	3	-
GSD	Mathematics	-	4
GSB	Social Science Course ²	3	-
GSD	Speech	-	2
EDUC 201	Teacher's Role in Public School Education ³	<u>1</u>	<u>-</u>
		<u>16</u>	<u>15</u>

¹ Certain specializations require particular courses in the GSC area; art education requires a literature course and art history requires GSC 207, Aesthetics, plus 8 hours of French or German. All specializations in the School of Art receive 6 hours of GSC substitution for Art 100 a or b and Art 207.

² Students whose major specialization is art education must fulfill certain requirements in General Studies. They must have a C average in GSD 101 and 117, 118 or 119 and also in their GSC literature course. From GSB they must select GSB 202, psychology, and GSB 300 or 301, American history, or GSB 212, American government. From GSC they must select GSC 201, Human Health and Development and 2 hours of activity.

³ For Art Education specialization only.

Art As A Major

Graduate degree available (MFA).

The School is staffed by a faculty of artist-teachers, many of whom have national reputations resulting from their participation in major exhibitions and invitational shows throughout the country. The School is accredited by the National Association of Schools of Art. The student can expect to receive training in all of the applied and theoretical branches of visual art. The Richert-Ziebold Trust Award of \$25,000 is awarded every year to the outstanding graduating senior or seniors from the School of Art.

Transfer students will be able to transfer 36 hours of art from a community college. Work above 36 hours will be evaluated on the basis of a portfolio. Senior institution hours in art will be given transfer credit and evaluated for placement with the School of Art at SIUC.

Representative First Job Titles: Art Apprentice, Studio Assistant, Ceramic Sprayer, Archival Worker, Displays Artist, Exhibit Preparator, Archaeological Digging Officer, Manufacturer's Representative, Purchasing Specialist, Pattern & Mod Maker, Arborer, Arboriculturist (Ornamental Hort.), Archaeological Assistant, Ceramics Specialist, Activities Director, Rehab., Painter, Lithographic Artist, Weaving Expert, Museum Curator.

ART EDUCATION

(School of Art)

College of Education

College of Communications and Fine Arts

(Bachelor of Arts or

Bachelor of Science)

L. Brent Kington, Acting Director

Telephone - 618-453-2571

Allyn Building

M. Frances Giles, Coordinator

Teacher Education Services

Telephone - 618-453-2354

Wham Building, Room 135

In addition to teaching art in elementary and secondary schools, art majors are employed in museums, private art schools, college art departments, and art galleries. Electives, courses outside of degree requirements, are provided so that the student may encounter additional areas of concern beyond his or her concentration.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	-
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition	3	-
GSD 117, 118, or 119	Writing (select) ¹	-	2
GSD 153	Public Speaking	-	2
GSE 201	Healthful Living ²	2	-
GSE	Human Health and Well Being ²	-	1
ART 100a,b	Basic Studio	4	4
ED 201	Teacher's Role in Public School Education	-	1
		<u>18</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 212 or 300 or 301	American Government or U.S. History 1492-1877 (select) ²	-	4 (3)
GSB 202	Introduction to Psychology ²	3	-
GSC	Literature (select) ²	3	-
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ²	1	-
ART	Studio	4	4
ART 107	Fundamentals of Art	2	-
ART 207	Survey of Art History	-	4
		<u>16</u>	<u>16 (15)</u>

¹ Refer to section General Studies for the Transfer Student.

² Courses required for certification include GSB 202; GSB 212, 300 or 301; GSD 101; GSD 117, 118, or 119; GSD 153; GSE 100-114 (2 hours); GSE 201; and one additional English course from GSC, GSD or department.

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.

The objective of the Automotive Technology program at the School of Technical Careers is to provide students with an opportunity to obtain a solid foundation of knowledge, experience and skills that will assist in job entry and career advancement in many facets of automotive service and related industries.

Instruction in the Automotive program is geared to a thorough presentation of fundamental concepts and reinforced with practical applications of those concepts with structured laboratory activities, and service and diagnosis of live automobiles. In a vast majority of the courses all units studied will be working or operational units and dynamic testing of the units is an integral part of the course.

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.

The associate degree can be completed in two academic years at Southern Illinois University at Carbondale or in combination with community college or other acceptable extra instructional educational experience.

Upon the completion of the associate degree and at the option of the student, the student may continue additional automotive studies for part or all of a third year in areas in which courses are available.

The student should expect to spend about \$400 for a basic tool kit consisting of both domestic and metric tools and supplies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
AUT 101	Automotive Engines & Fuel Systems Lab	4.5	-
AUT 121	Basic Automotive Engines & Fuel Systems Theory	3	-
AUT 103	Brakes and Chassis Lab	4.5	-
AUT 123	Brakes and Chassis Theory	3	-
AUT 115	Related Shop Lab	2	-
GSD 101	English Composition	3	-
AUT 105	Engine Electrical Lab	-	4.5
AUT 125	Engine Electrical Theory	-	3
AUT 107	Drive Trains Lab	-	4.5
AUT 127	Drive Trains Theory	-	3
STC 105a	Technical Mathematics	-	2
GSD 153	Public Speaking	-	3
		<u>20</u>	<u>20</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
AUT *	Automotive Lab & Theory	15	15
STC 107a,b	Applied Physics	4	-
STC 108	Chemistry of Fuels and Lubricants	-	2
STC 102	Technical Report Writing	-	2
		<u>19</u>	<u>19</u>

*200-Level Automotive Courses: With the aid of an advisor and availability of courses, the student must choose 4 areas of study (2 per semester) from the following list of courses.

	<u>Lab</u>	<u>Theory</u>
Automatic Transmissions	AUT 201-4.5	AUT 221-3
Automotive Power Accessories	AUT 203-4.5	AUT 223-3
Automotive Air Conditioning	AUT 204-4.5	AUT 224-3
Advanced Fuel and Emission Systems	AUT 205-4.5	AUT 225-3
Advanced Brakes and Chassis	AUT 207-4.5	AUT 227-3
Advanced Engine	AUT 208-4.5	AUT 228-3
Advanced Electrical Systems	AUT 209-4.5	AUT 229-3
Diesel Fuel and Electrical Systems	AUT 210-4.5	AUT 230-3

Entry Level Jobs: Automotive Service Technician, Service Writer, Assistant Service Manager, Shop Foreman, Service Representative, Automotive Parts Counter Person, Apprentice Truck Service Technician.

Representative First Job Titles: General Auto Mechanic, Alignment Specialist, Engine Overhaul Specialist, Automakers' Production Foreman, Automakers' Dealer's Representative, Auto Maintenance Foreman.

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 Agency (FAA) Airman Airframe and Powerplant certificate as an A & P maintenance technician. Students may also take flight classes as electives in this program or any other. See "Flight" section for details.

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 Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
STC 105a	Technical Mathematics	2	-
AT 110	Aircraft Structure--Fabrication and Repair	-	4
AT 111	Material and Metal Processing	7	-
AT 112	Aircraft Electricity	4	-
AT 113	Aircraft Instruments and FAR	4	-
AT 203	Aerodynamics and Weight and Balance	-	5
AT 204	Aircraft Hydraulics	-	4
AT 205	Cabin Environment & Jet Transport Systems	-	5
		20	20
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology ¹	3	-
GSD 153	Public Speaking	-	2
AT 210	A & P Electrical and Ignition Systems	7	-
AT 211	Reciprocating Powerplant	5	-
AT 212	Carburetion, Lubrication and Fuel	5	-
AT 214	Propellers	-	4
AT 215	Powerplant Testing	-	5
AT 216	Jet Propulsion Powerplant	-	6
Elective	Social Science	-	2
		20	19
		<u>Summer*</u>	
AT 225	Aircraft Inspection	6	
AT 230	Powerplant Inspection	6	
		12	

*A minimum of 79 hours satisfies requirements for the associate degree; students who wish to qualify for the FAA A & P licenses are required to take an additional eight weeks of summer school.

¹Recommended, not required.

Aviation Technology As A Major

Aviation 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 technology program for the first time must purchase a basic tool kit which costs approximately \$300.

The Aviation Technology Department 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 depicting the modern jet transports such as: Boeing 707 and 727, and Douglas DC9 aircraft.

Executives in the aviation industry constitute an advisory committee which serves the program.

Representative First Job Titles: A&P Mechanic, Maintenance Technician.

Technicians skilled in aviation electronics, or avionics, are needed for the development, installation, and maintenance of the sophisticated systems required for modern aviation.

The student in this program can take advantage of the combination of courses available through the Aviation Technology and Electronics Technology programs. He or she will learn basic AC and DE electricity, vacuum tubes and transistors, aircraft integrated flight systems, airborne radar systems, aircraft flight controls and instrumentation systems, transmitters and receivers, and aircraft communications and navigation systems.

The graduate will be able to install, maintain, test, and repair airborne communications and navigation systems and radar equipment. He or she will find opportunities for employment with the airlines, in general aviation, and in aircraft manufacturing.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
STC 105a,b	Technical Mathematics	4	-
STC 118	Applied Calculus	-	2
Elt 101	DC-AC Circuit Analysis	5	-
Elt 102	Electronics Circuit Theory	-	5
Elt 111	DC-AC Circuit Analysis Lab	6	-
Elt 112	Electronics Circuit Lab	-	6
Elt 121	Electronics Devices	3	-
Elt 122	Communications Fundamentals	-	3
		<u>21</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
AT 113	Aircraft Instruments and FAR	5	-
GSB	Social Science	4	-
Ata 233	Aircraft Communication & Navigation Systems	5	-
Ata 234	Avionics Laboratory II	6	-
Ata 235	Flight Control Systems Theory	-	6
Ata 236	Avionics Laboratory III	5	-
Ata 237	Avionics Logic Circuits & Pulse Systems Theory	-	5
Ata 238	Avionics Laboratory IV	-	5
		<u>20</u>	<u>21</u>
		<u>Summer*</u>	
GSD 153	Public Speaking	3	
Ata 304	Avionics Radar System Theory	4	
Ata 302	Avionics Laboratory V	3	
Ata 303	FCC Regulations	2	
		<u>12</u>	

*To meet federal and industry requirements, the student should plan to take these additional courses offered as a post-associate specialty.

A minimum of 80 hours credit is required for the associate degree.

Representative First Job Titles: Line Avionic Repairperson, Shop Repairperson, Electronic Maintenance Foreman, Company Representative.

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 Studies 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>
ZOOL 220a,b	Diversity of Animal Life	4	4
GSB	Social Studies (select) ²	-	3
GSC	Humanities (select) ²	-	3
GSD 101	English Composition	3	-
GSD 117, 118, or 119	Writing (select) ²	-	2
*BOT 200, 201	General Botany and Lab	-	4
*MATH 111	College Algebra and Trigonometry	5	-
GSD 153	Public Speaking	3	-
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 212, 300, or 301	American Government or U.S. History	4 (3)	-
GSC	English elective in Humanities	-	3
GSC	Humanities (select) ²	3	-
GSE	Human Health and Well Being	2	2
Bot 204, 205	Plant Diversity and Lab	-	4
*CHEM 224, 225	Introduction to Chemical Principles & Lab	7	-
GSB 202	Introduction to Psychology	-	3
*PHSL 210	Introductory Human Physiology	-	4
EDUC 201	Teacher's Role in Public School Ed.	-	1
		<u>16 (15)</u>	<u>13</u>

*Approved substitutes for General Studies.

¹See also the program under the College of Science.

²Refer to the section General Studies for the Transfer Student.

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 certification include: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics OR GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118 or 119, Writing; GSD 153, Public Communication; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; One additional English course (GSC, GSD, or departmental).

BIOLOGICAL SCIENCESCollege of Science
(Bachelor of Arts)Dr. William Dyer,
Coordinator of Biological Sciences
Telephone - 618-536-6666
Neckers Building

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 the Departments of Botany, Microbiology, Physiology, and Zoology.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Expository, Technical Report, or Creative Writing	-	2
*FL	Foreign Language ⁴	4	4
*MATH 110a,b	College Algebra and Trigonometry ^{3,4}	3	2
ZOOL 220a,b	Diversity of Animal Life (Invertebrate, Vertebrate)	4	4
GSB	Social Studies (select) ²	3	-
GSC	Humanities (select) ²	-	3
GSE	Human Health and Well Being (select) ²	-	1
		17	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 152, 153 or 104	Speech	2 (3)	-
*BOT 200, 201	General Botany and Lab ⁴	4	-
*BOT 204, 205	Plant Diversity and Lab ⁴	-	4
*CHEM 224, 225 or CHEM 222a,b	Introduction to Chemical Principles ⁴	7 (4)	- (4)
GSB	Social Studies (select) ²	3 (6)	3 (-)
GSC	Humanities (select) ²	-	2
GSE	Human Health and Well Being ²	-	3
PHSL 210	Introductory Human Physiology ⁴	-	5
		16 (17)	17 (18)

Third and Fourth Year

The last two years of a student's program should include completion of 3 additional hours in GSA, GSB, or GSC, 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. Chemistry 340 is recommended.

*Approved substitutes for General Studies.

¹See also the program (B.S.) under the College of Education.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³Math III substitutes for Math 110a,b.

⁴Students 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.

Biological Sciences As A Major

Although advanced work (M.A. 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. Pharmaceutical houses, chemical companies and laboratories of all types require such personnel. Large medical centers actively recruit the undergraduate degree holder. In addition, all industrial firms selling chemicals or biologicals have continuous openings for sales and management trainees with general science backgrounds.

No minor required.

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.

Botany 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 systematic botany 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 students who wish to prepare for a career in botany or for graduate study will vary somewhat depending upon the area of plant science in which they intend to specialize.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 212	Introduction to American Government & Politics ²	-	4
GSD 101	English Composition ²	3	-
GSD 117, 118, or 119	Writing ²	-	2
*MATH 111	College Algebra and Trigonometry	5	-
GSE 201	Healthful Living ²	2	-
GSE	Human Health and Well Being (select) ²	1	-
*BOT 200, 201	General Botany & Lab	4	-
*CHEM 224, 225	Introduction to Chemical Principles & Lab	-	7
GSC	Humanities (select) ²	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology ²	-	3
GSB	Social Studies (select)	3	-
GSC	English elective in Humanities (select) ²	3	-
GSC	Humanities (select)	3	3
GSD 153	Public Speaking ²	-	2
GSE	Physical Education Activities (select) ²	-	1
ED 201	Teacher's Role in Public School Education	-	1
BOT 204, 205	Plant Diversity & Lab	4	-
BOT	Electives	3	6
		<u>16</u>	<u>16</u>

*Approved substitutes for General Studies.

¹Should have a minor in Zoology. See also the program under the College of Science.

²The following courses are required for teacher certification: GBS 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics OR GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, Expository Writing or GSD 118, Technical Writing; GSD 153, Public Communication; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; one additional English course (GSC, GSD, or departmental).

Botany As A Major

For specific major requirements see the Undergraduate Catalog.

Foreign language is not required for students pursuing the Bachelor of Science in Education degree.

Botany 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 systematic botany 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 botany or for graduate study will vary somewhat depending upon the area of plant science in which he or she intends to specialize.

First Year		Fall	Spring
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Writing (select)	-	2
*FL	Foreign Language ³	4	4
*MATH 110a,b	College Algebra and Trigonometry ³	3	2
GSB	Social Studies (select) ²	3	-
GSC	Humanities (select) ²	-	3
GSE	Human Health and Well Being (select) ²	-	1
*BOT 200, 201	General Botany and Lab ³	4	-
BOT 204, 205	Plant Diversity and Lab ³	-	4
		17	16
Second Year		Fall	Spring
GSD 152	Interpersonal Communication	2	-
*CHEM 224, 225 or 222a,b or 140a,b	Introduction to Chemical Principles ^{3,4}	7 (4)	- (4)
GSB	Social Studies (select) ²	3 (6)	3 (0)
GSC	Humanities (select) ²	-	3
GSE	Human Health and Well Being ²	1	2
BOTANY 304	Plant Classification	3	-
*BIOLOGY 307	Environmental Biology	-	3
BOTANY	Elective	-	4
		16	15 (16)

*Approved substitutes for General Studies.

¹See also the program under the College of Education (Bachelor of Science).

²To determine what courses may be taken to satisfy this program, please refer to the section, General Studies for the Transfer Student.

³Students 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.

⁴Students have two options for chemistry: Option A is 140a,b; Option B is Chemistry 224, 225 (or the two-semester version, Chemistry 222a,b) with 340 and 341 to follow in the third or fourth year. Option B is recommended for those interested in plant physiology or graduate school.

Third and Fourth Year

The last two years of a student's program should include completion of 3 additional hours in GSA, GSB, or GSC, Biology 305, and the following courses in botany: Botany 320, 335, 337, and any botany electives totaling 16 hours to be selected from Botany offerings excluding Botany 160, 257, 258, 259, 462, 490, 491; and may include up to a total of 6 hours selected from Botany 390, 391, and 492.

Botany 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 botany should include the following in his or her undergraduate program: inorganic and organic chemistry, mathematics through calculus, a modern European language, and as many botany and biology courses as time and scheduling will permit.

An honors program is available to those juniors and seniors in botany who have an overall grade point average of 3.00 or better and an average in botany 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 Nematologist, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Plant Protection Technician, Quality Control Specialist, Parasitologist, Technical Library Operator, Museum Curator, Biotechnologist, Industrial Bacteriologist, Research-Glacier National Park, Biological Warfare Scientist, Agricultural Commodities Inspector.

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 course work offered by the College of Business and Administration with a secondary concentration comprised of 20-23 semester hours of course work 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 course work in food and nutrition with business and administration. The outside field (or secondary concentration) must be consistent with a specific career objective or personal 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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
*GSB 202	Introduction to Psychology	3	
GSE-3 or	Humanities (select) ¹ or Human Health		
GSE-2	and Well Being (select) ¹	3 (2)	-
GSC	Humanities (select) ¹	-	3
*GSD 101 & 117, 118 or 119	English Composition & Writing (select) ¹	3	2
*MATH 116-5 or 139-3	Finite Mathematics and Algebra or Finite Mathematics	3 (5)	-
*ADSC 208	Interpretation of Business Data	- 15 (16)	4 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or EDP 217	Intro. to Computer Programming (PL1) or Computing for Business Admin. (Fortran)	-	3
*MATH 117-5 or 140-4	Finite Mathematics and Calculus or Short Course in Calculus	4 (5)	-
*ECON 214, 215	Economics, Macro and Micro ²	3	3
GSA	Science (select) ¹	-	3
*GSD 153 or 152	Public Speaking or Interpersonal Communication	3 (2)	-
GSC-3 or	Humanities (select) ¹ or Human Health		
GSE-2	and Well Being (select) ¹	3 (2)	-
GS- ---	General Studies Electives	- 16 (15)	4 15

*Required courses for a major in Business and Administration.

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

²Econ 214 or 215 counts toward GSB credit.

Business And Administration As A Major

Secondary concentration required; foreign language not required.

Graduate degree 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 recognized by the American Assembly of Collegiate Schools of Business (AACSB).

See College of Business and Administration listing for their retention policy.

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 in 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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
*GSB 202	Introduction to Psychology	-	3
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health and Well-Being (select) ¹	3 (2)	-
GSC	Humanities (select) ¹	3	3
*GSD 101 & 117, 118 or 119	English Composition & Writing (select) ¹	3	2
*MATH 116-5 or 139-3	Finite Mathematics and Algebra or Finite Mathematics	3 (5)	-
*ADSC 208	Interpretation of Business Data	-	4
		15 (16)	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or EDP 217	Intro to Computer Programming (PL/1) or Computing for Business Admin. (Fortran)	-	3
*ECON 214, 215	Economics, Macro and Micro ²	3	3
MATH 117-5 or 140-4	Finite Mathematics & Calculus or Short Course in Calculus	4 (5)	-
GSA	Science (select) ¹	-	3
*GSD 153 or 152	Public Speaking or Interpersonal Communication	3 (2)	-
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health and Well Being (select) ¹	3 (2)	-
GS- ---	General Studies Electives	-	3
		16 (15)	15

*Required course for a major in Business Economics

¹-To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

²Econ 214 or 215 count toward GSB credit.

Business Economics As A Major

Neither minor nor foreign language required.

Graduate degree 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 recognized by the American Assembly of Collegiate Schools of Business (AACSB). See College of Business and Administration listing for their retention policy.

Representative First Job Titles: Tax Consultant, 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 Off., Business Analyst, Loan Administrator, Loan Examiner.

BUSINESS EDUCATION
College of Education
(Bachelor of Science)

M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Dr. Roger Luft
Coordinator of Program Area
Telephone - 618-453-3321
General Classrooms Building, Room 133

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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB 202	Introduction to Psychology	3	-
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSD 107	Intermediate Algebra	4	-
GSD 152 or 153	Interpersonal Communication or Public Speaking	-	2
GSE	Human Health and Well Being	1	1
ED 201	Teacher's Role in Public School Education	-	1
VES 210	Introduction to Business Education	-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 211	Contemporary Economics	3	-
GSB 212, 300 or 301	American Government or History of U.S.	-	4 (3)
GSC	English Elective in Humanities (select) ¹	3	-
GSD 110	Economic & Business Statistics	-	2
GSE 201	Healthful Living	2	-
SCR 101a	Keyboarding	2	-
VES 302	Communication in Business	-	2
ACT 220	Accounting I	3	-
VES 306	Introduction to Data Processing	-	3
GS	Electives	-	3
		<u>16</u>	<u>17 (16)</u>

¹Refer to the section General Studies for the Transfer Student.

Business Education As A Major

Students should include the following courses required for certification: GSB 202, Introduction to Psychology; GSB 211, Contemporary Economics; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 118, Technical Writing; GSD 153, Public Communication; GSE 100-114, 2 hours, Physical Education Activities; GSE 201, Healthful Living; one additional English course (GSC, GSD, or Departmental).

Major Core Requirements: Accounting 220, Economics 214 or GSB 211 (see above), Marketing 304, Secretarial and Office Specialties 101 a and b, Vocational Education Studies 210, 302, and 306.

BUSINESS EDUCATION
 (Non-Certification Business Occupations
 Teaching)
 College of Education
 (Bachelor of Science)

M. Frances Giles, Coordinator
 Teacher Education Services
 Telephone - 618-453-2354
 Wham Building, Room 135

Dr. Roger Luft
 Coordinator of Program Area
 Telephone - 618-453-3321
 General Classrooms Building, Room 308

This Business Education program provides students with the background to fulfill careers in these areas: (1) teaching the occupation in community colleges, private schools, or government sponsored educational program; (2) employment in the occupation; (3) employment in education or training divisions within a business.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 202	Introduction to Psychology	3	-
GSB 305	Personal Finance	-	3
GSC	Humanities (select) ¹	-	3
GSC 208	Elementary Logic	3	-
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSD 113	Introduction to Mathematics	2	-
GSD 112 or 110	Statistics	-	2
GSD 152 or 153	Interpersonal Communication or Public Speaking	-	3
GSE	Human Health and Well Being	2	-
ACCT 220	Accounting I	-	3
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 211	Contemporary Economics	3	-
GSB 346	Consumer Choice and Behavior	3	-
GSC	Humanities (select) ¹	-	3
GSE	Human Health and Well Being	-	2
ACCT 230	Accounting II	-	3
SCR 101A	Keyboarding	3	-
GS	Electives	4	4
		<u>16</u>	<u>15</u>

¹ Refer to the section General Studies for the Transfer Student.

Business Education (Non-Certification Business Occupations Teaching) As A Major

The student is required to complete 53 semester hours in a combination of general courses in business and in courses in one of these business concentrations: (1) office; (2) accounting; (3) data processing; (4) marketing; (5) management. Work experience credit will be accepted in lieu of any of the business courses. Education requirements involve 22 semester hours in such course work as planning cooperative programs, working with adults, and specific methodology in teaching the business occupation.

The Department of Chemistry offers three concentrations in chemistry. The Bachelor of Science degree with certification by the American Chemical Society is recommended for those who wish to become professional chemists. The Bachelor of Arts degree involves less work in chemistry. This program is recommended to students who wish to complete a concentration in chemistry, but who plan on eventually going into other professional areas such as medicine, dentistry, etc.

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.

First Year		Fall	Spring
GSB 212, 300, or 301	American Government or U.S. History	-	4 (3)
GSC	Humanities (select) ²	3	-
GSD 101	English Composition	3	-
GSD 117, 118, or 119	Writing (select) ²	-	2
GSE 201	Healthful Living	-	2
GSE	Human Health and Well Being--Activity	-	2
*CHEM 224, 225 and	Introduction to Chemical Principles and Lab	7	-
GS or	General Studies Elective ²	-	4
*CHEM 222a,b	Introduction to Chemical Principles	(4)	(4)
*MATH 111	College Algebra and Trigonometry	5	-
		18 (15)	14 (13)
Second Year		Fall	Spring
GSA	Science (select) ²	-	3
GSB 202	Introduction to Psychology	3	-
GSC	English elective in Humanities (select) ²	3	-
GSB	Social Science (select) ²	-	3
GSC	Humanities (select) ²	-	3
GSD 153	Public Speaking	-	2
MATH 150	Calculus I	4	-
ED 201	Teacher's Role in Public School Education	1	-
CHEM 226	Introduction to Quantitative Chemical Principles	5	-
CHEM	Electives	-	4
		16	15

*Approved substitutes for General Studies.

¹ See also the program under College of Science.

² Refer to the section General Studies for the Transfer Student.

For specific major requirements see the Undergraduate Catalog.

Chemistry As A Major

To include the following courses required for certification: GSB 202, Introduction to Psychology, GSB 212, Introduction to American Government and Politics OR GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118, 119, Expository, Technical, or Creative Writing; GSD 153, Public Communication; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; One additional English course (GSC, GSD, or departmental).

Departmental substitutions in General Studies: For GSA 101 - Physics 203, 204, or 205; for GSA 106 - Chemistry 224; for GSA 107 - Chemistry 225; for GSD 107 (see above) - Mathematics 111.

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.

The Bachelor of Science in Education with a major in chemistry is administered by the College of Education.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
BIOL	Biological Sciences (not GSA) ¹	3	3
*CHEM 224, 225 or			
CHEM 222a,b	Introduction to Chemical Principles ²	7 (4)	- (4)
CHEM 226	Intro. to Quantitative Chemical Principles	-	5
GSD 101	English Composition	3	-
GSD 153	Public Speaking	- (3)	3 (-)
GSD 118	Technical Report Writing	-	2
MATH 111	College Algebra and Trigonometry ¹	5	-
MATH 150	Analytic Geometry and Calculus ¹	-	4
		18	15 (16)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CHEM 344	Organic Chemistry	4	-
CHEM 345	Laboratory Techniques	2	-
CHEM 346	Organic Chemistry	-	2
CHEM 349	Laboratory Technique	-	3
MATH 250	Calculus II	-	3
*FL	(German Recommended) ¹	4	4
*PHYS 205, 255	University Physics & Lab	4	4
GSB	Select ³	3	-
		17	16

*Approved substitutes for General Studies.

¹Students 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. German is required by the American Chemical Society.

²Pre-Medical students are encouraged to take Chem 222a,b in the second year, instead.

³Refer to section General Studies 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 Studies requirements. The B.S. in the College of Science requires a year 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 somewhat less demanding and the available options allow a program to be tailored to the needs of the individual.

Chemistry As A Major

Our Faculty consists of 23 Ph.D.'s; 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, Blood Chemistry Technician, 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, Glass Chemist, Industrial Alcohols Chemist, Leather Chemist, Manufacturer's Representative, Nuclear Chemist, Product Studies and Testing Chemist, Textile Chemist, Water Purification Chemist.

The preschool early childhood specialization has been specifically designed to prepare future teachers of children under six and will lead to certification by the State of Illinois. This program is jointly offered by the Department of Curriculum, Instruction, and Media in the College of Education, under the title Early Childhood Education.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	3
*GSB 202	Introduction to Psychology	3	-
GSB	Social Science (select)	-	3
**GSC	Humanities (Art and Music are required)	3	3
GSD 101	English Composition	3	-
*GSD 117 or 119	Expository or Creative Writing	-	2
*GSD 152, 153	Interpersonal Communication or Public Speaking	-	2 (3)
F&N 100	Fundamentals of Nutrition	3	-
*GSE 201	Healthful Living	-	2
		<u>15</u>	<u>15 (16)</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	-
*GSB 212 or 300 or 301	Intro. to American Government & Politics or Origins of Modern America (1492-1877) or Modern America from 1877 to present	3	-
GSC	Humanities (select)	3	3
GSD	Mathematics	-	4
*GSE	Human Health and Well Being (Activity)	1	1
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	3	-
Elective		-	3
*Psysc 301	Child Psychology	-	3
		<u>16</u>	<u>14</u>

*Required General Studies. See section on General Studies for the transfer student.

**Under Humanities - Music 101 is to be substituted for GSC 100 for certification. Art may be GSC 101, 204, 205, or Art 100.

Faculty have varied interests in Child Development/Family Relations, retardation, motivation of the child, sex education.

Excellent facilities - Child Development Laboratory with observation booth.

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 Studies Specialist, Child Welfare Studies Specialist, Child Placement Studies Specialist, Family Welfare Studies Specialist, Cultural Studies Specialist, Sales Trainee, Children's Programs Organizer, Child Development Specialist, Minority Groups & Race Relations Studies Specialist, Population Studies Specialist, Teacher (Pre-School).

CHILD AND FAMILY
(Preschool Programs)
Division of Human Development
College of Human Resources
(Bachelor of Science)

Thomas Brooks
Acting Divisional Executive Officer
Telephone - 618-536-5541
Quigley Hall, Room 116F

Within a major in Child and Family, the curriculum offers specialization in Pre-School Programs. These courses offer basic background leading to position as nursery school director or teacher in private schools, colleges and universities and day care centers; director or 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>
GSA	Science (select)	3	3
*GSB 202	Introduction to Psychology	3	-
*GSB 203	The Sociological Perspective	-	3
GSC	Humanities (select)	3	3
GSD 101	English Composition	3	-
GSD 117, 118, or 119	Writing	-	2
GSD 152	Interpersonal Communication	-	2
F&N 100	Fundamentals of Nutrition	3	-
GSE	Human Health and Well Being (select)	-	2
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	-
*GSB 212	Intro. to American Government & Politics	-	4
GSC	Humanities (select)	3	-
GSD	Mathematics	-	4
GSE	Human Health and Well Being	-	1
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	3	-
Elective		3	4
PSYC 301	Child Psychology	-	3
		<u>15</u>	<u>16</u>

*Required General Studies. See section on General Studies for the transfer student.

Child And Family 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.

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 Studies Specialist, Child Welfare Studies Specialist, Child Placement Studies Specialist, Family Welfare Studies Specialist, Cultural Studies Specialist, Sales Trainee, Children's Programs Organizer, Child Development Specialist, Minority Groups & Race Relations Studies Specialist, Population Studies Specialist, Teacher (Pre-School)

CINEMA AND PHOTOGRAPHY

College of Communications and Fine Arts
(Bachelor of Arts)

Dr. Timothy J. Lyons, Chairperson
Timothy A. Wilbers, Advisor
Telephone - 618-453-2682
Communications Bldg.-North Wing

Cinema and Photography courses provide the undergraduate student with a substantial background in the history, theory, and practice of photographic communication and expression. The curriculum is structured to make available a strong foundation for both professional and educational careers in film and photography, to explore the social implications of still and moving pictures, and to provide opportunity for the study of both cinema and still photography as media for communication and personal expression. In all instances, programs are tailored to the interests and career plans of the individual student.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	3
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition	3	-
GSD	Mathematics (select) ¹	-	4
GSD 117, 118			
or 119	Writing (select) ¹	-	2
GSD 152 or 153	Interpersonal Communication or Public Speaking	2 (3)	-
GSE	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		13 (14)	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB	Social Studies (select) ¹	3	3
GSC	Humanities (select) ¹	3	3
GS Elective	From A, B or C (select) ¹	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	<u>-</u>	<u>4</u>
		16	16

¹Refer to section General Studies 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, Cameramen, Painting & Publication Officer, Visual Information Specialist, Color Technician, Developer, Printer, Retoucher, Sales Manager, Photochecker & Assembler, Chemical Mixer, Advertising Agent, Newsfilm Editor, Film Industry Business Assistant, Film Production Staff, Film Planner, Free Lance Photographer, Documentary Film Specialist, Quality Control Officer, Film Numberer, Film Stripper.

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, 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 wishing to work towards this major are encouraged to take an Asian language.

Students majoring in a foreign language usually begin at the second or third-year level. The student who has taken two years of one foreign language in high school (or equivalent) may earn proficiency credit through taking a proficiency exam in French, German, Latin, Spanish at the Testing Center, or in Chinese, Greek, Japanese, Russian at the Foreign Languages and Literatures Department. For additional credit, students with more than two years are encouraged to take a validating course. Students with four years in one foreign language at the high school level are encouraged to continue with that language. Since proficiency 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>
GSA	Science (select)	-	3
GSB	Social Science (select)	3	3
GSC	Humanities (select)	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select)	3	2
CLAS 133a,b or			
CLAS 130a,b or	Elementary Latin ^{1,2} or Greek ^{1,2}	4	4
CLAS 202a,b or			
CLAS 201a,b	Intermediate Latin ^{1,2} or Greek ^{1,2}	(3)	(3)
GSD	Math (select)	-	4
GSE	Human Health and Well Being (select)	2	-
		14	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	3
GSB	Social Science (select)	-	3
MATH or CS	or Computer Science ³	3	-
GSD	Speech (select)	2 (3)	-
CLAS	Classics Electives ⁴	3	3
GSE	Human Health and Well Being (select)	-	2
CLAS	Latin or Greek Language	4	4
		15-16	15

¹Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

²Required by the major--two years of one language or one year of each.

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

⁴Required by the major.

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.

NOTE: 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.

Representative First Job Titles: 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)
Division of Comprehensive
Planning and Design
College of Human Resources
(Bachelor of Science)

Dr. Wayne L. St. John
Coordinator
Telephone - 618-536-7741
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 graduate of this program. The variety of course offerings is outstanding, which provides the student with opportunity to develop individual skills and competencies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	-
GSA 106	Chemistry for NonScience Majors	-	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
CT 127	Clothing Construction	3	-
GSE	Human Health and Well Being (select)	-	1
ART 100a	Basic Studio	-	4
GSB 211	Contemporary Economics	-	3
GSC	Humanities (select)	3	3
CT 150	Survey of Clothing	2	-
		<u>14</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology	3	-
GSC 205	Innovation for the Contemporary Environment	3	-
ART 200	Beginning Drawing	-	2
ART 100B	Basic Studio	-	4
GSD 152 or 153	Interpersonal Communication or Public Speaking	2 (3)	-
GSD	Mathematics (select)	-	4
GSE	Human Health and Well Being (select)	2	1
CT 351	Fashion Motivation	3	-
CT 352	Family Clothing	3	-
CT 304	Textiles	-	4
		<u>16 (17)</u>	<u>15</u>

Third and Fourth Year

If not completed at the junior college level, Chemistry and CT 127 (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 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 Studies 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

(Retailing)

Division of Comprehensive

Planning and Design

College of Human Resources

(Bachelor of Science)

Dr. Wayne L. St. John,

Coordinator

Telephone - 618-536-7741

Quigley Hall, Room 311

The retailing program at Southern Illinois University at Carbondale is offered through the Division of Comprehensive Planning and Design. 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>
GSA	Science (select)	3	-
GSA 106	Chemistry for NonScience Majors	-	3
GSD 101	English Composition	3	-
CT 150	Survey of Clothing	2	-
GSD 117, 118 or 119	Writing (select)	-	2
GSE	Human Health and Well Being (select)	-	1
GSC	Humanities (select) ¹	3	3
GSB	Social Sciences (select)	3	3
Elective		-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
ACCT 210 or 220	Principles of Accounting	-	3
GSD 152 or 153	Interpersonal Communications or Public Speaking	-	2 (3)
GSC 205	Innovation for the Contemporary Environment	3	-
GSB 202	Introduction to Psychology	3	-
GSB 211	Contemporary Economics	3	-
GSE	Human Health and Well Being (select)	-	2
CT 351	Fashion Motivation	3	-
CT 352	Family Clothing	3	-
CT 304	Textiles	-	4
GSD	Mathematics (select)	-	4
		<u>15</u>	<u>15 (16)</u>

¹ Art 100a will substitute for GSC Humanities. Retailing students must take Art 100a, Design 150 or Interior Design 131.

Third and Fourth Year

If not completed at the junior college level, chemistry should be taken the first semester the transfer student is at SIUC. Other courses during the last two years will include additional work in marketing, administrative sciences 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 Studies 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.

The advertising business is a growing field, presenting ever increasing 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.

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 \$1,000-\$1,200 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>
CG 110	Art Appreciation	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	-
GSD 101	English Composition	3	-
GSD 153	Public Speaking	-	3
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
STC 199	Individual Study (Photography)	-	2
GSB 200	Level 3 Elective (Psychology Recommended)	-	3
		<u>18</u>	<u>21</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CG 210	Advertising Graphics	8	-
CG 224	Publication Graphics	8	-
STC 102	Technical Writing (Special Course for Majors)	2	-
CG 222	Graphic Design and Advertising Illustration	-	8
CG 215	Dimensional Design	-	8
CG 230	Job Orientation Seminar	-	1
		<u>18</u>	<u>17</u>

A minimum of 73 hours is required for this program.

Applicants must be admitted to the University with undecided - Commercial Graphics designation by December 6, 1982 for the Fall 1983 semester, and then will be 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.

Representative First Job Titles: Commercial Artist, Layout Artist, Sketch Artist, Paste-up Artist, Package Designer, Freelance Artist, Illustrator, Mechanical Artist, Publication Designer, Photo-retoucher, Assistant to Art Director.

COMMUNICATION DISORDERS AND SCIENCES

(Clinical Specialization)
 (Public School Specialization)
 College of Communications and
 Fine Arts
 (Bachelor of Science)
 and
 (Public School Specialization)
 College of Education
 (Bachelor of Science)

I. P. Brackett, Chairperson
 Telephone - 618-453-4301
 Communications Bldg., Rm 1003

M. Frances Giles
 Coordinator of Teacher
 Education Services
 Telephone - 618-453-2354
 Wham Building, Room 135

The program in communication disorders and sciences has as its objective the training of qualified personnel to work with people impaired in either speech or hearing. The undergraduate curriculum is broad in scope and gives the student 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>
GSA 115	Biology	3	-
GSA 209	Principles of Physiology	-	3
GSB 202	Introduction to Psychology	3	-
GSB 203	The Sociological Perspective	3	-
GSC	Humanities (select) ¹	3	3
GSA, GSB, or GSC	Select ¹	-	3
GSD 101	English Composition	3	-
GSD 107	Intermediate Algebra	-	4
GSE 201	Healthful Living	-	2
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	(select) ¹	3	-
GSB 206	Applied Child Development	3	-
GSC	(select) ¹	3	-
GSD 152 or 153	Interpersonal Communication or Public Speaking	-	2-3
GSE	Human Health and Well Being (select) ¹	1	1
GSD 117	Expository Writing	2	-
PSYC 301	Child Psychology	-	3
CDS 200	Phonetics	3	-
CDS 203	Introduction to Speech Language and Hearing Science	-	3
CDS 105	Introduction to Communication Disorders	-	3
ED 201 or	Teacher's Role in Public Education ² or	-	1 + 2
PSYCH 211	Research Methods in Psychology ³	-	(4)
		<u>15</u>	<u>15-17</u>

¹Refer to section: General Studies for the Transfer Student.

²Public School Specialization, plus 2 hours of GS elective credit.

³Substitute for Clinical Specialization.

Preparation for teacher certification should include the following courses taught via General Studies: GSB 202, Introduction to Psychology; GSB 212 or GSB 300 or 301; GSD 101; GSD 117 or 118 or 119; GSD 153; GSE 100-114 (2 hours); and one additional English course from GSC, GSD or department.

Communication Disorders and Sciences As A Major

Clinical experience is obtained for all students through work at the University's Clinical Center, the public schools in student teaching, special summer programs, the Marion Veterans Administration Hospital, A.L. Bowen Children's Center, the Anna State Hospital and area hospitals.

Students will be encouraged to plan programs of study to meet academic and praticum requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association and the Standard Special Certificate - Certificate in Speech and Language Impaired.

Representative First Job Titles (all require certification/Master of Science degree): Rehabilitation Officer, Community Speech & Hearing Centers Worker, Private Consultant, Psychiatric Aide, Research Center Technician, Therapeutic Technician, Child Behavior Specialist, Child Welfare Specialist, Hearing Aids Specialist, Physical Retardation Specialist, Diagnostic Technician, Treatment Evaluator, Therapy Programmer, Researcher.

Requirements for a major in computer science are specified in two alternative forms. The program under Option A is the more flexible, broadly based, and provides preparation for a wide range of careers as well as for graduate training in computer science. Option B is more specifically oriented toward preparing a student for a career in business and management information processing.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
MATH 111	College Algebra and Trigonometry ²	5	-
MATH 150	Calculus I ^{3,5}	-	4
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118 or 119	English Composition ¹ and Writing (select) ¹	3	2
GSE	Human Health and Well Being (select) ¹	2	-
CS 202	Introduction to Computer Programming ³	-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CS 204	Advanced Programming Techniques ³	3	-
CS 302	Assembly Language Programming ³	-	4
MATH 250	Calculus II ³	4	-
MATH 221	Introduction to Linear Algebra ³	-	3
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	-	3
GSC or FL	Humanities (select) ¹ or Foreign Language ⁴	3 (4)	3 (4)
GSD	Speech (select) ¹	2 (3)	-
GSE	Human Health and Well Being (select) ¹	-	2
		<u>15 (17)</u>	<u>15 (16)</u>

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

²Will substitute for general studies mathematics.

³Required by the major.

⁴Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁵This course may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

CS 202 is a first course in programming using PL/I as a vehicle. CS 204 is a second course in programming which also uses PL/I as a vehicle. CS 302 is an intensive assembly language programming course.

Mathematics courses: The basic calculus requirement for a CS major under Option A is 8 hours as defined by Math 150 and 250. These may be taken in the student's third year without retarding graduation but it is preferable that they be taken earlier. Math 251 is not required, it is a recommended elective. Note that a student with insufficient background may have to take a pre-calculus course such as Math III prior to taking Math 150.

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, data management and computer applications to business and science. Students will be advised with respect to computer science courses by the department so that they may profitably pursue their academic and professional interests.

Representative First Job Titles: Programmer (Computer Programmer), Systems Analyst, Equipment Analyst, Computer Specialist, Process-Control Computers Scientist, Computer simulation Technician, Dealer Data Processing Personnel, Legislative Retrieval Specialist, Computer-Controlled Machinery Operator, Plant Protection Scientist, Safety Devices Operator, Security Devices Operator, Sales Representative, Computer Research Scientist, Consultant.

The Department of Computer Science now offers a new undergraduate program leading to the Bachelor of Arts degree. The curriculum will provide a student with broad undergraduate training in computer science and will also permit concentration in particular areas of interest.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
Math 116	Finite Mathematics and Algebra ^{2,3}	5	-
Math 117	Finite Mathematics and Calculus ^{2,3}	-	4
GSB	Social Science (select) ¹	3	-
GSB 202	Introduction to Psychology	-	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GSE	Human Health and Well Being (select) ¹	2	-
CS 202	Introduction to Computer Programming ³	-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CS 204	Advanced Programming Techniques ³	3	-
CS 302	Assembly Language Programming ³	-	4
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	-	3
GSC or FL	Humanities (select) ¹ or Foreign Language ⁴	3 (4)	3 (4)
GSD	Speech (select) ¹	2 (3)	-
ACCT 220,230	Accounting I and II ³	3	3
		<u>14 (16)</u>	<u>13 (14)</u>

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

²Mathematics Courses: Option B is a combination of finite mathematics and intuitive calculus which require less technical prerequisites. The requirement may be satisfied by taking Math 116, 117 or Mathematics 139, 140, the choice depending on the student's background in mathematics. One of these courses may substitute for GS Math, and the other may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

³Required by the major. Please note Accounting 220 and 230 replace Accounting 221 and 222.

⁴Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

Requirements for a major in computer science are specified in two alternative forms. The program under Option A is the more flexible, broadly based, and provides preparation for a wide range of careers as well as for graduate training in computer science. Option B is more specifically oriented toward preparing a student for a career in business and management information processing.

CS 202 is a first course in programming using PL/I as a vehicle. CS 204 is a second course in programming which also uses PL/I as a vehicle. CS 302 is an intensive assembly language programming course.

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, data management and computer applications to business and science. Students will be advised with respect to computer science courses by the department so that they may profitably pursue their academic and professional interests.

Representative First Job Titles: Programmer (Computer Programmer), Systems Analyst, Equipment Analyst, Computer Specialist, Process-Control Computers Scientist, computer Simulation Technician, Dealer Data Processing Personnel, Legislative Retrieval Specialist, Computer-Controlled Machinery Operator, Plant Protection Scientist, Safety Devices Operator, Security Devices Operator, Sales Representative, Computer Research Scientist, 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>
STC 105a,b	4	-
STC 107a,b	-	4
Cst 102a	4	-
Cst 103a	4	-
Cst 104	-	4
Cst 110	7	-
Cst 111	-	7
Cst 125a	-	3
	<u>19</u>	<u>18</u>

<u>Second Year</u>	<u>Fall</u>	<u>Spring</u>
GSD 101	3	-
STC 120	-	3
STC 102	-	2
STC 103b	4	-
Cst 125b	3	-
Cst 208	-	3
Cst 210	7	-
Cst 211	-	7
Elective	-	3
	<u>17</u>	<u>18</u>

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 72 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.

A growing demand for trained correctional workers is being created by increasing emphasis on rehabilitation of criminal offenders. These people are needed both in institutions and in community-based corrections.

This correctional services program has the two-fold purpose of providing a broad-based social science type curriculum to both the person entering the field and to presently employed personnel who wish to upgrade skills for advancement opportunities.

The student will learn the nature and effects of crime on both the perpetrator and the victim, methods used to combat crime in modern society, and various approaches to rehabilitation of the offender. He or she will spend one term in supervised internship working in a correctional agency or social service agency.

Persons already employed in the correctional field may enroll in the program on a part-time basis with the assurance that faculty members will help them to arrange classes compatible with their work schedules.

Professionals in the field serve on an advisory committee which assists in the program.

A minimum of 62 hours credit is required for this major.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
CLE 103	Introduction to Criminal Justice	3	-
CLE 104	Treatment Methods in Criminal Justice	3	-
GSB 202	Introduction to Psychology	3	-
CLE 115	Interpersonal Relations in Criminal Justice	-	3
GSD 118	Technical Report Writing	-	2
CLE 106	Treatment Practicum	-	3
CLE 108	Supervision in Criminal Justice	-	3
GSB 203	The Sociological Perspective	-	4
GSD 153	Public Speaking	-	3
CLE 220	Probation, Parole and Community Based Corrections	-	3
		<u>15</u>	<u>18</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 212	Intro to American Government & Politics	4	-
CLE 105	Criminal Behavior	3	-
CLE 209	Criminal Law I	3	-
Electives	(From GSA, GSC or GSE)	4	-
CLE 210	Criminal Law II	-	3
CLE 218	Introduction to Corrections	-	3
CLE 215	Internship in Criminal Justice Practice	-	9
		<u>14</u>	<u>15</u>

Representative First Job Titles: Group Home Counselor, Correctional Officer, Probation Officer, Juvenile Officer, Volunteer Coordinator, Criminal Justice Planner.

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. All states require the dental hygienist to be licensed and to 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 administrative procedures, dental health education, and other areas of preventive dentistry.

This program is fully accredited by the Council on Dental Education of the American Dental Association. Available facilities restrict first-year enrollment to 56 students. Interested persons should contact both the SIUC Office of Admissions and the dental hygiene faculty. Special application material is included in requirements for admission to the program. Applicants must take the Dental Hygiene Aptitude Test by November of the year preceding the fall in which they wish to enter in order to have the results evaluated with other required material; for Fall 1983 admission, the test must be taken no later than November 1982.

This test is sponsored by the American Dental Hygiene Assn., 666 N. Lake Shore Dr., Suite 1136 Chicago, IL 60611 (312-642-3954), and information on testing sites and dates is available from that organization.

All application materials to the University and to the program for Fall 1983 must be on file no later than January 15, 1983.

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 two weeks at the School of Dental Medicine in Alton, IL, for a seminar.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
GSD 153	Public Speaking	2	-
Chem 140a,b	Chemistry	4	4
DH 136	Cranial and Oral Anatomy	4	-
DH 137a,b	Pre-Clinical Dental Hygiene	5	5
DH 215	Ethics, Jurisprudence, & Office Management	1	-
Physio 301	Survey of Human Anatomy	-	4
GSA 209	Principles of Physiology	-	3
DH 133	Histology and Embryology	-	2
DH 218a	Dental Radiology	-	2
		<u>19</u>	<u>20</u>

Summer Session (8 weeks)

MICR 201	Elementary Microbiology	4
DH 217	Dental Nutrition	2
DH 209	Dental Hygiene Clinic	3
DH 218b	Dental Radiology	2
		<u>11</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
DH 138	Pathology	3	-
DH 220a,b	Community Dentistry	3	3
DH 201	Dental Materials and Assisting Techniques	4	-
DH 210a,b	Clinical DH and Radiology	6	6
DH 240	Dental Pharmacology and Anesthesia	2	-
DH 241	Periodontology	2	-
GSB 202	Intro to Psychology	-	3
GSB 203	The Sociological Perspective	-	4
DH 211	Seminar	-	2
		<u>20</u>	<u>18</u>

A minimum of 88 hours is required for this program.

Representative First Job Titles: Dental Hygienist, Researcher, Health Administrator.

DENTAL LABORATORY TECHNOLOGY

School of Technical Careers
(Associate in Applied Science)

Dennis Laake
Program Coordinator
Telephone - 618-536-6682
STC Building, Room 18B

Dental Laboratory 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 Laboratory 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 under the guidance and instruction of the dentist, thus permitting the dentist to devote more of his or her time to chair-side operative and restorative dentistry.

The Dental Technology program includes extensive study covering all phases of dental laboratory technology and leads to an associate in applied science degree.

The program was designed so that students would receive not only technical training but such general education courses as would 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 material, professional ethics and other related subjects.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
GSA 106	Chemistry for Non-Science Majors	3	-
GSA 209	Principles of Physiology	-	3
DT 102*	Tooth Anatomy	4.5	-
DT 103a*	Complete Dentures	4.5	-
DT 103b*	Advanced Complete Dentures	4.5	-
DT 104a*	Removable Partial Dentures	-	4.5
DT 104b*	Advanced Removable Partial Dentures	-	4.5
DT 113a	Science of Dental Materials	-	2
DT 128	Oral Anatomy	-	1
DT 143	Orientation to Dental Technology	1	-
DT 106	Dental Orthodontics & Pedodontics	-	4.5
		<u>20.5</u>	<u>19.5</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 152	Interpersonal Communication	-	2
STC 102	Technical Writing	2	-
STC 120	Fiscal Aspects of Technical Careers I	-	3
DT 113b	Science of Dental Materials	2	-
DT 202	Professional Ethics	1	-
DT 200	Dental Occlusion	4.5	-
DT 204a*	Beginning Crown and Bridge	4.5	-
DT 204b*	Advanced Crown and Bridge	4.5	-
DT 206a*	Dental Ceramics	-	4.5
DT 206b*	Advanced Dental Ceramics	-	4.5
DT 210	Dental Lab Specialty	-	4.5
		<u>18.5</u>	<u>18.5</u>

*Five-week module.

Dental Laboratory Technology As A Major

This program is the first of its kind in the state of Illinois which is accredited by the Council on Dental Education and Commission on Accreditation of the American Dental Association.

The School of Technical Careers has been a pioneer in approved training for dental technicians and the curriculum and staff are fully accredited by the Council on Dental Education and Commission on Accreditation of the American Dental Association. The Council's standards are sufficiently high to insure that the graduate of such an accredited program has the best education it is possible to give in the time allocated. The staff 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.

The student should expect to spend about \$600 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.

The faculty and students of the Design Program are a part of the Division of Comprehensive Planning 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 is to develop within our participants generalized abilities to cope effectively with multi-faceted design problems.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	3
GSB	Social Studies (select)	3	3
GSC	Humanities (select)	-	3
GSC 205	Innovation for the Contemporary Environment	3	-
GSD 101	English Composition	3	-
GSD 117, 118, 119	Writing (select)	-	2
GSD 152, 153	Interpersonal Communication or Public Speaking	3	-
GSE	Human Health and Well Being (select)	1	1
DES 102	Design Fundamentals	-	5
		<u>15</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	-
GSB	Social Studies (select)	-	2
GSC	Humanities (select)	3	3
GSD 107	Intermediate Algebra	4	-
GSE	Human Health and Well Being (select)	1	1
DES 201	Survey of Design	-	3
Elective		5	5
		<u>16</u>	<u>15</u>

Third and Fourth Years

If not completed at the junior college level, GSC 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. Three options are available: product design, urban planning, and visual communications.

Product design prepares a student for careers designing a very broad range of items for a great diversity of uses, such as medical/therapeutic products, playground/recreational equipment, toys and games, and household artifacts.

Visual communications prepares a student to design a variety of items meant specifically to carry a message to the user/buyer. These items include such things as new letterheads and forms with logos for a corporation, point-of-sale displays and advertising, layout of proposals, brochures and annual reports, signage, and environmental communications.

The urban planning specialization prepares a student to analyze the needs for environmental control in building and in urban environments, to prepare site analyses in relation to structures and large developments and to develop skills in client interaction and advocacy.

Representative First Job Titles: Story Illustrator, Advertising Layouts Specialist, Billboard Designer, Displays Organizer, Greeting Cards Designer, Annual Report Designer, Television Commercials Specialist, Title Cards and Set Designer, Fashion Illustrator, Architectural Assistant, Airbrush & Photo Retouching Artist, Graphic Processes Specialist, Graphic Designer, Advertising Illustrator, Copywriter, Fashion Designer, Community Planner, Typographic Designer, Cameraman, Technical Illustrator, Systems Evaluator, Technical Sales Representative, Publications Assistant, Manufacturer's Representative.

EARLY CHILDHOOD EDUCATION

(K-3)

College of Education
(Bachelor of Science)Dr. Billy Dixon, Chairperson
Telephone - 618-453-2239
Wham Building, Room 327M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

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>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	3
GSC 100	Music Understanding ²	-	2
GSC 101	Introduction to Art	3	-
GSD 101	English Composition ²	3	-
GSD 152	Interpersonal Communication ²	2	-
GSD 117	Expository Writing ²	-	2
GSE	Human Health and Well Being (select) ²	2	-
GSE 201	Healthful Living ²	-	2
Ed 201	Teacher's Role in Public School Education	-	1
CIM 213	Understanding the Elementary School Child	-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 202	Introduction to Psychology ²	3	-
GSB 300 or 301	History of U.S. ²	-	3
GSC	Literature (select) ² (or English required)	3	-
Math 114	Algebraic and Arithmetic Systems	4	-
PE 202	Physical Activity for Children and Youth	3	-
Math 314	Math for Elementary Teachers	-	3
Mus 101	Music Fundamentals	-	3
GSC	Fine Arts	-	3
		<u>16</u>	<u>15</u>

¹See section on General Studies for the Transfer Student.

²Required for certification.

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 Formal Teacher Education Program.

For the last decade educators have become increasingly aware of the importance of providing quality care and guidance for the preschool child. This program has been designed for persons interested in the education of children 0-6 years of age. It is offered jointly by the College of Education and the College of Human Resources. Students following this program will meet state certification requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 202	Introduction to Psychology ³	3	-
GSC 100	Music Understanding ³	2	-
GSC	Humanities (Art & Music are required) ^{2,3}	-	3
GSD 101	English Composition ³	3	-
GSD 117 or 119	Expository or Creative Writing ³	-	2
GSD	Mathematics	4	-
GSD	Speech (select) ¹	-	2
GSE	Human Health and Well Being (select) ³	-	2
GSE 201	Healthful Living ³	-	2
Elective		-	1
		15	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 212,300 or 301	American Government or U.S. History ³	3 (4)	-
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	3	3
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	3	-
F&N 100	Fundamentals of Nutrition	-	3
Psyc 301	Child Psychology	-	3
Elective		-	3
		15 (16)	15

¹See section on General Studies for the Transfer Student.

²Under Humanities, Music 101 is to be substituted for GSC 100. Art may be GSC 101, 204, 205 or Art 100.

³Certification requirements include GSB 202; GSB 212, 300 or 301; GSC 100; an Art class; GSD 101; GSD 117 or 119; GSE 201; and GSE 100-114.

Refer to the Undergraduate Catalog for additional information on this program.

Specific General Studies 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.

ECONOMICS

College of Liberal Arts
(Bachelor of Arts)

Dr. Robert J. Ellis, Jr. - Chairperson
Telephone - 618-536-7746
Faner Building 4121

The Economics major consists of 31 semester hours. Of these, 16 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.

First Year

		Fall	Spring
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118, or 119	English Composition and Writing (select) ¹	3	2
GSD	Speech (select) ¹	-	2 (3)
MATH 116	Finite Mathematics and Algebra ^{2,4}	5	-
GSE	Human Health and Well Being (select) ¹	2	-
MATH 117	Finite Mathematics and Calculus ^{2,4}	-	5

Second Year

		Fall	Spring
GSA	Science (select) ¹	3	-
GSB	Social Science (select)	-	3
GSC	Humanities (select) ¹	-	3
GSC or FL	Humanities (select) ¹ or Foreign Language ³	3 (4)	3 (4)
GSE	Human Health and Well Being (select) ¹	2	-
*ECON 214, 215	Introduction to Macro and Micro Economics ⁴	3	3
Elective ⁵		3	3
		14-15	15-16

¹To determine what courses may be taken to satisfy the general education requirements, please refer to the section, General Studies for the Transfer Student.

²One of these courses is required by the major and may also be used to fill the General Studies mathematics requirements; the other may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

³Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁴Part of Economics major requirement. Economics 214 also satisfies part of GSB requirements.

⁵Elective 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 29-36 hours of electives.

To Counselors

We recommend that high schools 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.

ELECTRONIC DATA PROCESSING
School of Technical Careers
(Associate in Applied Science)

Byron Johnson
Program Coordinator
Telephone - 618-536-6682 ext. 268
Faner Building, A-2040

The growth of electronic data processing both in the expansion of installations and in the complexity of hardware and software has increased the need for competent computer programmers and systems analysts. Accurate and effective information processing is essential in any organization or institution.

The curriculum in electronic data processing prepares students for employment as business computer programmers and systems analysts. Skills which the graduate obtains include competency in programming languages (such as COBOL, Assembler, and RPG) and associated areas such as accounting and systems design and development.

An outstanding feature of the program at the School of Technical Careers is the availability of an IBM 370 computer system and a prime computer system for batch and interactive use. The hardware and software configuration is representative of large computer installations in industry. The data center is accessible for approximately 100 hours per week.

Lab fees may be required for certain programming courses.

An advisory committee of professional people and educators helps to keep the program responsive to needs in the field.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
STC 120, 220	Applied Accounting	3	3
STC 102 or GSD 118	Technical Writing	-	2
EDP 101	Introduction to Data Processing	3	-
EDP 102	Introduction to Programming	3	-
EDP 206	RPG Programming	-	3
EDP 104	Data Processing Applications	3	-
EDP 103	Cobol Programming I	-	3
GSD 153	Public Speaking	-	3
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Approved Social Science elective	3	-
EDP 203	Job Control Language and Utilities	3	-
EDP 204	COBOL Programming II	3	-
EDP 205	Systems Design and Development	-	3
EDP 207	DP Project	-	6
EDP 201	Assembler Language Programming	-	4
STC 210A	Job Orientation	2	-
Electives	Approved Technical Electives	<u>6</u>	<u>3</u>
		<u>17</u>	<u>16</u>

Electronic Data Processing As A Major

A minimum of 60 hours of credit must be completed for graduation.

Students may begin the program in the Spring semester, but five semester may be required for completion.

Representative First Job Titles: Computer Programmer, Systems Analyst.

The Electronics Technology program provides instruction for the education of semiprofessional electronics technicians who are capable of taking places in industry in both indirect and direct support of the electronics engineer, and to provide training both practical and theoretical experiences in all phases of electrical power transmission.

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, as well as industrial systems 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 analyses to troubleshoot and repair electronics equipment.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	-	3
GSD 153	Public Speaking	-	3
STC 105a,b	Technical Mathematics	4	-
ELT 101	DC-AC Circuit Analysis Theory	5	-
ELT 111	DC-AC Circuit Analysis Lab	6	-
ELT 121	Electronic Devices	3	-
ELT 102	Electronics Circuits Theory	-	5
ELT 112	Electronics Circuits Laboratory	-	6
ELT 224	Computer System Applications	-	3
		<u>18</u>	<u>20</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
STC 102 or			
GSD 118	Technical Writing	-	2
STC 107a,b	Applied Physics	4	-
ELT 201	Telemetry and Industrial Circuits Theory	5	-
ELT 211	Telemetry and Industrial Circuits Lab	6	-
ELT 221	Electronic Systems Analysis	3	-
ELT 202	Digital Electronics Theory	-	5
ELT 212	Digital Electronics Laboratory	-	6
EDP 107 or	Electronic Data Processing Concepts or		
EDP 217 or	Computing for Business Administration or		
CS 202 or	Intro to Computer Programming or		
CS 212 or	Intro to Business Computing	-	3
ELT 223 or	FCC Test Preparation		
ELT 122	Communications Fundamentals	-	3
		<u>18</u>	<u>19</u>

Electronics Technology As A Major

Graduates are employed by major corporations such as: General Electric, Emerson Electric, Bell Research Laboratories, I.B.M., General Tire and Rubber Company, Digital Equipment Corporation, Texas Instruments, and General Telephone (Automatic Electric). About eighty percent of these graduates work in indirect support positions and the remaining twenty percent in direct support positions.

During the first year of the program, most instruction is directed toward basic principles of electricity and electronics. This is followed by digital circuits and industrial systems. These applications are based on transistor and integrated circuitry.

Workbooks and supplies required for laboratory courses cost approximately \$150.

A minimum of 72 hours of credit must be completed for graduation.

Third year options include bio-medical electronics, optoelectronics, and microcomputer construction for which an associate's degree is required.

Representative First Job Titles: Electronics Technician, Bench Technician, Repair Analysis Technician, Bio-medical Technician, Instrument Engineer, Technical Sales Representative, Customer Technician, Quality Control Technician, Field Technician, Field Engineer, Customer Engineer.

ELEMENTARY EDUCATION (K-9)

College of Education
(Bachelor of Science)

Dr. Billy Dixon, Chairperson
Telephone - 618-453-2239
Wham Building, Room 327

M. Frances Giles
Coordinator of Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

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>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	3
GSC	Humanities, Fine Arts (select) ^{1,2}	3	3
GSD 101	English Composition ²	3	-
GSD 117	Expository Writing ²	-	2
GSD 152	Interpersonal Communication ²	2	-
GSE	Human Health and Well Being ²	2	-
GSE 201	Healthful Living ²	-	2
LANGUAGE ARTS	(select) ²	-	3
ED 201	Teacher's Role in Public School Education	-	1
		<u>16</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	2
GSB 202	Introduction to Psychology ²	3	-
GSB 300 or 301	History of U.S. ²	-	3
GSC	Literature (select) ² (or English required)	3	-
MATH 114	Algebraic and Arithmetic Systems	3	-
GSE	Human Health and Well Being (select) ^{1,2}	-	1
MATH 314	Math for Elementary Teachers	-	3
MUS 101	Music Fundamentals (or GSC Music)	-	2
LANGUAGE ARTS	(select) ²	-	3
GSB 212	Introduction to American Government and Politics ²	4	
Elective	(select)	<u>3</u>	<u>-</u>
		<u>16</u>	<u>17</u>

¹See section on General Studies for the Transfer Student.

²Certification requirements.

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 Formal Teacher Education Program.

ENGINEERING

(Electrical Sciences & Systems Engineering)
(Engineering Mechanics & Materials)
(Mining Engineering)
(Thermal & Environmental Engineering)
College of Engineering and Technology
(Bachelor of Science)

Dr. Vernold Feiste (ESSE) Phone 618-536-2364
Dr. Philip Davis (EM&M), Phone 618-536-2368
Dr. J. W. Chen (T&EE), Phone 618-536-2396
Mr. Rodney Caudle (MNGE), Phone 618-536-6637
Technology Building

Engineering is the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

The four-year undergraduate program leading to the Bachelor of Science degree in engineering is a modern, flexible curriculum with four special options. The options in Electrical Sciences and Systems Engineering, Engineering Mechanics and Materials, and Thermal and Environmental Engineering are fully accredited by the Accreditation Board for Engineering and Technology (ABET, formerly ECPD). Accreditation for the new Mining Engineering option (est. Fall 1979) will be sought promptly.

First Year		Fall	Spring
*ENGR 100	Introduction to Engineering	3	-
GSB	Social Sciences (select) ^{1,2}	3	-
GSC	Humanities (select) ^{1,2}	3	3
*GSD 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GSE	Human Health and Well Being (select) ^{1,2}	1	1
*CHEM 224, 225	Intro. to Chemical Principles and Lab ³	-	7
*MATH 150, 250	Calculus I & II ³	4 17	4 17
Second Year		Fall	Spring
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics and Dynamics) ⁴	2	3
*GSA	Introductory Biology, Physiology, or Geology ²	3	-
GSB	Social Studies (select) ^{1,2}	-	3
GSC	Humanities (select) ^{1,2}	-	3
*GSD	Speech	2 (3)	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics and Lab ³	4 16 (17)	4 16

*Required courses for a major in Engineering.

¹ See General Studies for the Transfer Student.

² Major requirements due to accreditation standards must include 16 hours of Humanities and Social Studies; 6 or 7 hours of oral and written communications and 18 hours of basic science.

³ Substitutes for General Studies requirements.

⁴ Engr 260b is optional for ESSE students.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, a pre-engineering student must have completed the following five courses or their accepted equivalencies with a minimum grade of C in at least four of the five courses: Mathematics 150, 250 and 251; Chemistry 222A or 224; Physics 205A.

To remain in the College, students are subject to the additional 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, EMM, ESSE, MNGE and TEE.

Transfer students from community colleges or other institutions should have strong backgrounds in the physical sciences, social sciences, and humanities. Students are encouraged to complete specific freshman and sophomore course requirements which include 3 hours of English Composition, 2 hours of Technical Writing; 2 hours of Speech; 8 hours of University Physics; 7 hours of Chemistry; 11-14 hours of Math, including Calculus; 2 hours of Analytical Mechanics (Statics); and 3 hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

The engineering program is designed to provide a basic foundation for the professional engineer. Students with Bachelor of Science degrees in Engineering will have an opportunity to specialize further at the graduate level.

Representative First Job Titles: Mechanical Engineer, Electrical Engineer, Civil Engineer, Structural Engineer, Plant Engineer, Product Development and Design Engineer, Product Application & Test Engineer, Sales, Operations Research Analyst, Hydrologist, Patent Engineer, Quality Assurance Specialist, Communications Engineer, Computer Engineer, Environmental Protection Engineer.

ENGINEERING TECHNOLOGY

(Civil)
(Electrical)
(Mechanical)
College of Engineering and Technology
(Bachelor of Science)

Dr. Lee Rogers
Telephone - 618-536-3396
Technology Bldg, Room D-109

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 craftsman 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 (formerly ECPD). These include the Civil Engineering Technology, Electrical Engineering Technology, and Mechanical Engineering Technology curricula.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
CHEM 140a	Chemistry ²	-	4
GSB	Social Science (select)	3	3
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSE	Human Health and Well Being (select)	2	-
ET 103, 104	Engineering Drawing I, II	3	3
MATH 111	College Algebra and Trigonometry ²	5	-
MATH 150	Calculus I	-	4
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	-	3
GSC	Humanities (select)	-	3
GSD 153	Public Speaking	2	-
ET 245a	Electrical Systems for Industry	-	3
ET 260a,b	Principles of Mechanics, Statics & Dynamics	4	3
MATH 250	Calculus II	4	-
PHYS 203a,b & 253a,b	College Physics and Lab ²	4	4
ENGR 222	Computational Methods	2	-
		<u>16</u>	<u>16</u>

¹Student specializing in Civil Engineering Technology will substitute ET 202 for ET 104.

²Substitutes for General Studies.

Engineering Technology As A Major

To advance to upper division courses and be classified under a specific departmental major, a pre-engineering technology student must have completed the following four courses or their accepted equivalencies with a minimum grade of C in at least three of the four courses: Mathematics 111 and 150; ENGR 222 and Chemistry 140A or Physics 203A.

To remain in the College, students are subject to the additional 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.

A minor is not required. Foreign language is not required.

The amount of transfer credit (including occupational-technical credit) which can be applied to this program depends upon the nature of the credit to be transferred and the specific area requirements. The technology curricula are flexible enough to provide the means whereby graduates of two-year occupational programs can obtain a bachelor of science degree in a minimum length of time.

For the bachelor's degree the recommended guidelines in a specific subject matter area provide for a minimum of 23 semester hours of mathematics and basic science, 23 semester hours of communications, humanities, and social studies, and 45 semester hours of technical science and technical specialty courses.

Employment opportunities for graduates with B.S. degrees in Engineering Technology are excellent. Graduates are employed in the communications industries, electronic and electrical industries; by transportation industries and consulting firms; by federal, state, and local agencies; in the power and energy industries, in machinery manufacturing companies, and in many other areas.

Representative First Job Titles: Hardware Design & Development, Product Analysis & Development, System Operation, Process Management, Technical Sales and Service, Director of Engineering Technicians, Assistant Plant Engineer, Junior Field Engineer, Engineering Technician, Technical Representative, Personnel Dept. Trainee, Sales Engineer, Software Trainee Engineer, Assistant Engineer, Customer Tooling Engineer, Test Engineer, Senior Systems Designer.

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>
GSA	Science (select) ²	3	-
GSB 212, 300 or 301	American Government or U.S. History	3 (4)	-
GSB 202	Introduction to Psychology	-	3
GSC	Humanities (select) ²	3	3
GSD 101	English Composition	3	-
GSD 117	Expository Writing	-	2
GSD 107	Intermediate Algebra	-	4
GSE	Human Health and Well Being	2	-
ED 201	Teacher's Role in Public School Education	-	1
Electives ³		<u>2</u>	<u>3</u>
		16 (17)	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	3
GSB	Social Studies (select) ²	-	3
GSC	Humanities (select) ²	-	3
GSD 153	Public Speaking	2	-
GSE 201	Healthful Living	2	-
*ENG 209	Introduction to Forms of Literature	3	-
Electives ³		<u>5</u>	<u>6</u>
		15	15

*Approved substitute for General Studies.

¹See also the program under the College of Liberal Arts.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³Elective hours should be used in the following ways: (1) students may explore areas of interest; (2) they may select a minor.

English As A Major

The following specific General Studies courses are required for teacher certification (these courses may be completed during the freshman and sophomore years): GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical or Creative Writing; GSD 153, Public Communication; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

ENGLISH
(General)
(Pre-Graduate Study)
(Preprofessional)
College of Liberal Arts
(Bachelor of Arts)

Dr. William E. Simeone - Chairperson
Telephone - 618-453-5321
Faner 2370

The general background in English is designed for the student who desires a broadly based general education leading to a Bachelor of Arts degree with a concentration in English, American and world literatures, with study in the various forms of literature, contemporary and historic. This specialization is preparatory for graduate study and positions requiring effective communication of ideas, such as in 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 has interest in refining his or her composition and language abilities in order to prepare for work in such fields as law, business, government, publishing, etc. The program may be particularly attractive to the pre-law student in its emphasis on language and communication. Courses in literature are included for the refinement of the student's language awareness, especially analysis.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Speech (select) ¹	-	2(3)
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	2	2
		14	16-17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	-
GSC or FL	Humanities (select) ¹ or Foreign Language ²	3 (4)	3 (4)
ENG	English Literature ³	-	3
ENG	American Literature ³	3	-
MATH or CS	Mathematics or Computer Science ⁴	-	3
Elective ⁵		3	4
		15-16	13-14

¹See General Studies for the Transfer Student.

²Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

³Required by the major.

⁴One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁵Elective 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: Airline Stewardess, Customer Services Personnel, Public Relations Officer, Publications 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.

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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSB 202	Introduction to Psychology ²	-	3
GSC	Humanities (select) ¹	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ^{1,2}	3	2
GSD 153	Public Speaking ²	-	2 (3)
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being--activity (select) ^{1,2}	-	2
GSE 201	Healthful Living ²	<u>2</u> 14	<u>-</u> 16 (17)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 212, 300 or 301	Intro. to Am. Gov't or U.S. History	3 (4)	-
GSA	Science (select) ¹	3	-
GSC or FL	Humanities (select) ¹ or Foreign Language ³	3(4)	3(4)
ENG	English Literature ⁴	-	3
ENG	American Literature ⁴	3	-
MATH or CS	Mathematics or Computer Science ⁵	-	3
Elective ⁶		<u>3</u> 15-17	<u>4</u> 13-14

*See also the program under the College of Education.

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

²Required for teacher certification.

³Two 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, for of these hours may be used for GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁴Required by the major

⁵One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁶Elective 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.

First Year		Fall	Spring
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 101, 119	English Composition and Creative Writing ²	3	2
GSD	Speech (select) ¹	-	2 (3)
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		14	16 (17)
Second Year		Fall	Spring
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	-
GSC or FL	Humanities (select) ¹ or Foreign Language ³	3 (4)	3 (4)
ENG 281,282,283	Beginning Fiction, Poetry, Drama ²	3	3
MATH or CS	Mathematics or Computer Science ⁴	-	3
Elective ⁵		<u>3</u>	<u>6</u>
		15 (16)	15 (16)

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

²Required by the major. The student should select two courses from 281, 282, or 283

³Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁴One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁵Elective 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: 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, Reporter, Assistant Librarian, Rewriter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Recreation Specialist, Interpreter.

FAMILY ECONOMICS AND MANAGEMENT

(Consumer Services in Business Option)

Division of Human Development
College of Human Resources
(Bachelor of Science)Thomas Brooks
Acting Divisional Executive Officer
Telephone - 618-536-5541
Quigley Hall, 4th Floor

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 marketplace 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	3	3
*GSB 203	Sociological Perspective	4	-
GSC	Humanities (select)	-	3
GSD 101 and 117 or			
118	English Composition and Writing (select)	3	2
GSD 153	Public Speaking	-	3
GSD	Mathematics ¹	4	-
GSE	Human Health and Well Being (select)	1	1
Elective		-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	-	3
*GSB 202	Introduction to Psychology	3	-
*GSB 211	Contemporary Economics	-	3
GSC	Humanities (select)	3	3
GSE	Human Health and Well Being (select)	2	-
GSA, B, C	select ¹	2	-
Electives	(accounting recommended)	5	6
		<u>15</u>	<u>15</u>

*Required General Studies. See section on General Studies for the transfer student.

¹Refer to General Studies for the transfer student.

Third and Fourth Years

The last two years of a student's program concentrate on specialized objectives and departmental requirements. It includes the following areas: consumer resources and problems, housing concerns, consumers in the market, family financial management, business law, and public relations. In their 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, Trade Association Specialist, Consumer Affairs or Information Specialist, Consumer Educator, Community Liaison Specialist.

FAMILY ECONOMICS AND MANAGEMENT

(Family Service Consultant Option)

Division of Human Development

College of Human Resources

(Bachelor of Science)

Thomas Brooks

Acting Divisional Executive Officer

Telephone - 618-536-5541

Quigley Hall, 4th Floor

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 and 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 203	Sociological Perspective ²	4	-
GSC	Humanities (select) ¹	-	3
GSD 101, and 117 or 118	English Composition & Expository or Technical Report Writing ²	3	2
GSD 153	Public Speaking ²	-	3
GSD	Mathematics ¹	4	-
GSE	Human Health and Well Being ¹	1	1
Electives		-	3
		<u>15</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB 202	Introduction to Psychology ²	3	-
GSB 211	Contemporary Economics ²	-	3
GSC	Humanities (select) ¹	3	3
GSE	Human Health and Well Being (select) ¹	1	1
GSA, B, C	select ¹	-	2
F&N 100	Fundamentals of Nutrition	3	-
Electives		<u>5</u>	<u>3</u>
		<u>15</u>	<u>15</u>

¹ Refer to section on General Studies for the transfer student.

² Required General Studies. See section on General Studies for the transfer student.

Third and Fourth Year

Studies during the third and fourth years emphasize departmental requirements and advanced courses in Family Economics and 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 their senior year, students participate in an internship experience.

No minor required. No foreign language required.

Representative First Job Titles: Patient Service Rept. (Hospital), Social Welfare Agency Worker, Senior Citizens Agency Worker, Credit Counselor, Household Finance Specialist.

FINANCE

(Financial Management Option)
(Financial Institutions Option)
College of Business and Administration
(Bachelor of Science)

Dr. Iqbal Mathur, Chairperson
Telephone - 618-453-2459
General Classrooms Bldg., Room 120

The financial implications of decisions in both business and government are daily becoming more complex. 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 the operations of financial intermediaries and financial markets.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
*GSB 202	Introduction to Psychology	-	3
GSC-3 or	Humanities (select) ¹ or Human Health		
GSE-2	and Well Being (select) ¹	3 (2)	-
GSC	Humanities (select) ¹	-	3
*GSD 101 & 117, 118 or 119	English Composition & Writing (select) ¹	3	2
*MATH 116-5 or 139-3	Finite Mathematics and Algebra or Finite Mathematics	3 (5)	-
*ADSC 208	Interpretation of Business Data	-	4
		15 (16)	15 (16)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or EDP 217	Intro. to Computer Programming (PL1) or Computing for Business Admin. (Fortran)	-	3
*MATH 117 or 140-4	Finite Mathematics and Calculus or Short Course in Calculus	4 (5)	-
*ECON 214, 215	Economics, Macro and Micro ²	3	3
GSA	Science (select) ¹	-	3
*GSD 153 or 152	Public Speaking or Interpersonal Communication	3 (2)	-
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health		
	and Well Being (select) ¹	3 (2)	-
GS- ---	General Studies Electives	-	4
		16 (15)	15

*Required course for a major in Finance.

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

² Econ 214 or 215 counts toward GSB credit.

Finance As A Major

Neither minor nor foreign language required.

Graduate degree 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 recognized by the American Assembly of Collegiate Schools of Business (AACSB).

See College of Business and Administration listing for their retention policy.

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.

FLIGHT TRAINING
(Courses)

Ronald D. Kelly, Director
Air Institute & Services
Southern Illinois Airport
Telephone - 618-529-2681
Office of Admissions & Records
Woody Hall
Telephone - 618-453-4381
or toll free in Illinois
(800)642-3531

Flight is by its very nature interdisciplinary. Today's professional pilots must not only pursue and maintain the highest level of flight proficiencies, they must also develop allied competencies which give them realistic career alternatives within the aviation industry. There is not a specific degree in flight offered by SIUC, but interdisciplinary opportunities are abundant.

The program of flight instruction at SIUC is unique, in that it has the flexibility to accommodate any student, whatever his or her academic interest. For many it means taking flight courses as electives within traditional programs such as Business and Administration. For others it means combining flight courses with one of the University's Aviation Technology programs for an associate degree. Many students, particularly graduates from Technical Aviation programs in community colleges, enter the University through Project "Capstone". This unique program offers a variety of baccalaureate degrees. Three Capstone programs are particularly well suited for the technical aviation community college graduate. These are Industrial Technology, Occupational Education, and the individualized programs offered by the School of Technical Careers.

Students who are interested in flying professionally but who are unsure as to which academic program to pursue, may enter the University with an undecided major. This will allow them to immediately start their flight training while working with an advisor toward the selection of a degree program.

Flight Training at SIUC is conducted by the SIU Air Institute located at the Southern Illinois Airport, approximately 3 miles from the main campus. Bus transportation to and from the Airport is provided by the University. The SIU Air Institute is an FAA 141 approved certified Pilot School with examining authority, providing comprehensive flight training which includes the most basic rating (Private Pilot) to the most advanced rating (Airline Transport Pilot).

Substantial costs are incurred by students pursuing professional aviation. Realistically, students should plan on spending between \$8,000 - \$10,000 in order to obtain the flight qualifications needed for employment. These flight costs are in addition to tuition and fees, room and board, etc.

Students should be encouraged to contact the faculty at the SIU Air Institute or counselors located in the Office of Admissions for more specific information relative to degree options, flight costs and additional training alternatives such as Air Force ROTC and Army ROTC.

FOOD AND NUTRITION

(Dietetics)

Division of Human Development

College of Human Resources (Bachelor of Science)

Thomas Brooks

Acting Divisional Executive Officer

Telephone - 618-536-5541

Quigley Hall, 4th Floor

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 welfare organizations. They meet the requirements of the American Dietetics Association.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 115	Biology ¹	3	-
GSA 104 or 203	The Human Experience: Anthropology or Sociological Perspective ¹	3	-
GSC	Humanities (select) ²	3	3
GSD 101	English Composition	3	-
GSD 118 or 119	Technical Report Writing or Creative Writing ¹	-	2
GSD 107	Intermediate Algebra ¹	-	4
GSD	Speech (select) ²	2 (3)	-
GSE	Human Health and Well Being (select) ²	1	-
F&N 100	Fundamentals of Nutrition	-	3
EDP 107	Electronic Data Processing Concepts	-	3
		<u>15 (16)</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology ¹	3	-
GSB 211	Contemporary Economics ¹	-	3
GSC	Humanities (select) ²	3	-
GSA 209	Principles of Physiology ¹	-	3
GSD 112	Basic Concepts of Statistics ¹	-	2
GSE	Human Health and Well Being (select) ²	2	1
CHEM 140a,b	Chemistry ³	4	4
C&F 237	Child Development	3	-
MICR 301	Principles of Microbiology	-	4
		<u>15</u>	<u>17</u>

¹ Required General Studies courses.

² Refer to section on General Studies for the transfer student.

³ Chemistry 140a counts as GSA credit. The Chemistry requirement may be met by Chemistry 222a,b; 340; 352.

Third and Fourth Year

The last two years of a student's program concentrates on nutrition, food service systems, diet therapy, and experimental foods. Students may select an emphasis in general dietetics, clinical dietetics, community dietetics, or management dietetics.

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.

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, Dietician, Research for Consulting Firm, Food & Beverage Control Officer, Hospital Dietician.

FOOD AND NUTRITION

(Food and Lodging Systems
Management)

Division of Human Development
College of Human Resources
(Bachelor of Science)

Thomas Brooks
Acting Divisional Executive Officer
Telephone - 618-536-5541
Quigley Hall, 4th Floor

These courses prepare students for positions as food systems managers for restaurants, hotels, school food service, public and private lodging facilities, airlines, industrial feeding, resorts, institutions, hospitals and clubs. They meet the requirements as set forth by industry, the Council of Hotel, Restaurant, and Institutional Education, and the National Restaurant Association. Through this program in the hospitality field, transfer students from community colleges also will be able to complete their baccalaureate degrees.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 115	Biology ¹	3	-
GSB	Social Sciences (select) ²	3	3
GSC	Humanities (select) ²	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ²	3	2
GSD	Mathematics (select) ²	4	-
GSD	Speech (select) ²	-	2 (3)
GSE	Human Health and Well Being (select) ²	2	1
CHEM 140a	Chemistry ³	-	4
		<hr/> 15	<hr/> 15 (16)

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 209	Principles of Physiology ¹	3	-
GSB 202	Introduction to Psychology	-	3
GSC	Humanities (select) ²	3	3
GSA/B/C	Select ²	2	-
GSE	Human Health and Well Being (select) ²	2	-
F&N 100	Fundamentals of Nutrition	3	-
MICR 301	Principles of Microbiology	-	4
ACCT 220, 230	Principles of Accounting I & II	3	3
		<hr/> 16	<hr/> 13

¹ Required Areas A and B courses.

² Refer to section on General Studies for the transfer student.

³ Chemistry 140a counts as GSA credit.

Third and Fourth Year

The last two years of a student's program concentrates on courses in quantity food preparation, food service systems, and administrative sciences. Students selecting the food and lodging systems management specialization gain practical experience in a variety of aspects of quantity food production. This major stresses the functions of organization and management in the selection, preparation, delivery, and evaluation of high quality food.

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, Dietician, Research for Consulting Firm, Food & Beverage Control Officer, Hospital Dietitian.

These courses give a strong scientific education to those interested in preparing for graduate study in food, nutrition or related discipline; 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>
GSA 115	Biology ¹	3	-
GSB 209	Principles of Physiology ¹	-	3
GSB	Social Sciences (select) ²	3	3
GSC	Humanities (select) ²	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ²	3	2
GSE	Human Health and Well Being (select) ²	-	2
MATH 110a,b	College Algebra ³	3	2
F&N 100	Fundamentals of Nutrition	-	3
		15	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology ¹	3	-
GSC	Humanities (select) ²	3	3
GSD	Speech (select) ²	2 (3)	-
GSE	Human Health and Well Being (select) ²	1	1
CHEM 222a,b	Introduction to Chemical Principles ⁴	4	4
F&N 156	Fundamentals of Foods	3	-
MICR 301	Principles of Microbiology	-	4
	Electives	-	3
		16 (17)	15

¹ Required areas A and B courses.

² Refer to section on General Studies for the transfer student.

³ Math 110a meets the University Math requirements.

⁴ Chemistry 222a counts as GSA credit.

Third and Fourth Year

The last two years of a student's program concentrate on chemistry, nutrition, and microbiology. 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, Dietician, Research for Consulting Firm, Food & Beverage Control Officer, Hospital Dietitian.

FOREIGN LANGUAGES (TEACHING)

(French, German, Latin,
Russian, Spanish)
College of Education

(Bachelor of Science)

M. Frances Giles
Coord. of Teacher Ed. Services
Telephone - 618-453-2354
Wham Building, Room 135

Dr. Helmut Liedloff, Chairperson,
Foreign Languages
Telephone - 618-536-5571
Faner 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 skills.

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>
GSA	Science (select) ¹	3	-
GSB 300 or 301	History of U. S.	3	-
GSB 202	Introduction to Psychology	-	3
GSD 101	English Composition	3	-
GSD 107	Intermediate Algebra	-	4
GSD 117	Expository Writing	-	2
GSE	Human Health and Well Being (select) ¹	2	-
GSE 201	Healthful Living	-	2
FL	Elementary French, German, Latin, Spanish, or Russian	4	-
FL	Continue above	-	4
ED 201	Teacher's Role in Public School Education	-	1
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	-	3
GSC	English elective in Humanities (select) ¹	3	-
GSC	Humanities (select) ¹	3	3
GSD 153	Public Speaking	-	2
FL	Intermediate French, German, Latin, Russian, or Spanish	4	4
Elective		<u>2</u>	-
		<u>15</u>	<u>15</u>

¹Refer to section General Studies for the Transfer Student.

Courses required for certification include GSB 202; GSB 212 or GSB 300 or 301; GSD 101; GSD 117, 118, or 119; GSD 153; GSE 100-114 (2 hours); GSE 201; one additional English course from GSC, GSD, or department.

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 Environmental Assessment)
School of Agriculture
(Bachelor of Science)

Dr. George Weaver, Chairperson
Telephone 618-453-3341
Agriculture Building 184

The forest environmental assessment option provides training in the assessment of the impact of forestry practices on the environment. Graduates of this program, after assessing alternative forest practices, are able to prescribe procedures for best preserving a healthy forest ecosystem. This option features, during the summer following the junior year, a special field study course in which case studies are utilized to illustrate the preparation of environmental impact statements.

First Year		Fall	Spring
BOT 200 & 201	General Botany with Lab ¹	4	-
CHEM 140a & b	Inorganic/Organic ¹	4	4
ZOOL 118	Introductory Zoology	-	4
GSC	Select ²	3	3
GSD 101	English Composition	3	-
MATH 140	Calculus ¹	-	4
GSE	Human Health and Well Being (select) ²	1	2
FOR 200	Introduction to Forestry	1	-
		16	17
Second Year		Fall	Spring
GSD 118	Technical Report Writing	-	2
BIOL 307	Environmental Biology ¹	3	-
ABE 204	Ag Economics	3	-
GSB	Sociology or substitute	3	-
GSC	Elective	3	-
GSD 153	Public Speaking	-	3
MATH 283	Introduction to Applied Statistics ¹	-	3
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	-
PLSS 240	Soil Science	-	4
GSB 212	Intro. to American Government and Politics	-	4
		16	16

¹Substitutes for General Studies requirements.

²To determine what courses may be taken to satisfy the general education requirements for this major, please refer to the section, General Studies for the Transfer Student.

Third and Fourth Year

Before forestry majors will be admitted to any forestry courses at the 300 level or higher, they must have completed all freshmen and sophomore courses required for the specialization with either: 1) a grade of C or higher for each course, 2) an overall grade point average of 2.50 or higher for all courses. Students who do not meet these requirements within the first 70 semester hours of their baccalaureate work will be placed on warning and given one semester in which to comply or be terminated from the forestry program. Transfer students admitted to the forestry program with more than 45 semester hours of baccalaureate work completed elsewhere must comply within 35 semester hours following admission to the forestry program or be placed on one-semester warning status.

Students concentrate on courses in forestry and associated areas to gain the competence required to analyze and assess the environmental impact of forest management systems. Field work in environmental impact assessments 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; many state parks and conservation areas, and the Kaskaskia Experimental Forest, 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, 30 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
(Forest Resources Management Option)
School of Agriculture
(Bachelor of Science)

Dr. George Weaver, Chairperson
Telephone - 618-453-3341
Agriculture Building, Room 184

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 includes areas of study recommended 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>
BOT 200 & 201	General Botany with Lab ¹	4	-
CHEM 140a & b	Chemistry ¹	4	4
ZOOL 118	Introductory Zoology ¹	-	4
GSC	Humanities (Select) ²	-	3
MATH 140	Calculus ¹	-	4
GSD 101	English Composition	3	-
GSE 101A	Swimming	1	-
GSE	Human Health and Well Being (Select) ²	1	-
FOR 200	Introduction to Forestry	1	-
		<u>14</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
BIOL 307	Environmental Biology ¹	3	-
GSB	Sociology or substitute	3	-
GSB	Political Science or substitute	-	3
GSC	Humanities (Select) ²	-	3
GSD 118	Technical Report Writing	2	-
GSD 153	Public Speaking	-	3
MATH 283	Introduction to Applied Statistics	3	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	-
PLSS 240	Soil Science	-	4
ABE 204	Agricultural Economics ¹	-	3
		<u>15</u>	<u>16</u>

¹Substitutes for General Studies requirements.

²To determine what courses may be taken to satisfy the general education requirements for this major, please refer to the section, General Studies for the Transfer Student.

Third and Fourth Years

Before forestry majors will be admitted to any forestry courses at the 300 level or higher, they must have completed all freshmen and sophomore courses required for the specialization with either: 1) a grade of C or higher for each course, 2) an overall grade point average of 2.50 or higher for all courses. Students who do not meet these requirements within the first 70 semester hours of their baccalaureate work will be placed on warning and given one semester in which to comply or be terminated from the forestry program. Transfer students admitted to the forestry program with more than 45 semester hours of baccalaureate work completed elsewhere must comply within 35 semester hours following admission to the forestry program or be placed on one-semester warning status.

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; many state parks and conservation areas, and the Kaskaskia Experimental Forest, 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, 30 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.

First Year		Fall	Spring
BOT 200 & 201	General Botany with Lab ¹	4	-
CHEM 140a & b	Chemistry ¹	4	4
ZOOL 118	Introductory Zoology ¹	-	4
GSC	Humanities (select) ²	-	3
MATH 140	Calculus ¹	-	4
GSD 101	English Composition	3	-
GSE	Human Health and Well Being (select) ²	2	1
FOR 200	Introduction to Forestry	1	-
		14	16
Second Year		Fall	Spring
BIOL 307	Environmental Biology ¹	3	-
GSB	Sociology or substitute	3	-
GSB	Political Science or substitute	-	3
GSC	Humanities (select) ²	3	3
GSB	Social Science (select) ²	-	3
GSD 117/118/119	Writing (select) ²	2	-
GSE	Human Health and Well Being (select) ²	-	1
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	-
PLSS 240	Soil Science	-	4
		15	16

¹Substitutes for General Studies requirements.

²To determine what courses may be taken to satisfy general education requirements for this major refer to the section General Studies for the Transfer Student.

Third and Fourth Year

Before forestry majors will be admitted to any forestry courses at the 300 level or higher, they must have completed all freshmen and sophomore courses required for the specialization with either: 1) a grade of C or higher for each course, 2) an overall grade point average of 2.50 or higher for all courses. Students who do not meet these requirements within the first 70 semester hours of their baccalaureate work will be placed on warning and given one semester in which to comply or be terminated from the forestry program. Transfer students admitted to the forestry program with more than 45 semester hours of baccalaureate work completed elsewhere must comply within 35 semester hours following admission to the forestry program or be placed on one-semester warning status.

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; many state parks and conservation areas, and the Kaskaskia Experimental Forest, 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, 30 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 Resource
Management Specialization Option)
School of Agriculture
(Bachelor of Science)

Dr. George Weaver, Chairperson
Telephone - 618-453-3341
Agriculture Building, Room 184

The program in outdoor recreation resource management provides interdisciplinary professional training in developing, maintaining and managing forests and wildlands as recreational areas. 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 May for the summer following completion of the third year in the program.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
BOT 200 & 201	General Botany with Lab ¹	4	-
CHEM 140a & b	Chemistry (organic/inorganic) ¹	4	4
ZOO 118	Introductory Zoology ¹	-	4
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
MATH 140	Calculus ¹	-	4
GSE	Human Health and Well Being (select) ²	2	2
FOR 200	Introduction to Forestry	1	-
		14	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
FOR 301	Social Influences on Forestry	-	3
BIOL 307	Environmental Biology ¹	3	-
GSB	Sociology or substitute	3	-
GSB	Political Science or substitute	-	3
GSC	Humanities (select) ²	3	-
GSC 205	Innovation for the Contemporary Environment	-	3
GSD 153	Public Speaking	-	3
MATH 283	Introduction to Applied Statistics	3	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	-
PLSS 240	Soil Science	-	4
		16	16

¹Substitutes for GSA requirements.

²To determine what courses may be taken to satisfy the general education requirements for this major, please refer to the section, General Studies for the Transfer Student.

Third and Fourth Year

Before forestry majors will be admitted to any forestry courses at the 300 level or higher, they must have completed all freshmen and sophomore courses required for the specialization with either: 1) a grade of C or higher for each course, 2) an overall grade point average of 2.50 or higher for all courses. Students who do not meet these requirements within the first 70 semester hours of their baccalaureate work will be placed on warning and given one semester in which to comply or be terminated from the forestry program. Transfer students admitted to the forestry program with more than 45 semester hours of baccalaureate work completed elsewhere must comply within 35 semester hours following admission to the forestry program or be placed on one-semester warning status.

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; many state parks and conservation areas, and the Kaskaskia Experimental Forest, 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, 30 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, 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 wishing to work towards this major are encouraged to take an Asian language.

Students majoring in a foreign language usually begin at the second- or third-year level. The student who has taken two years of one foreign language in high school (or equivalent) may earn proficiency credit through taking a proficiency exam in French, German, Latin, Spanish at the Testing Center, or in Chinese, Greek, Japanese, Russian at the Foreign Languages and Literatures Department. For additional credit, students with more than two years are encouraged to take a validating course. Students with four years in one foreign language at the high school level are encouraged to continue with that language. Since proficiency 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>
GSA	Science (select) ¹	-	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
FR 123a,b	Elementary French ²	4	4
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	2	-
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	3	-
GSD	Speech (select) ¹	2(3)	-
FR 201a,b	Intermediate French ³	4	4
FR 220a,b	Intermediate French Conversation ⁴	2	2
MATH or CS	Mathematics or Computer Science ⁵	-	3
		<u>14 (15)</u>	<u>15</u>

*See also Foreign Language Education under the College of Education.

¹See General Studies for the Transfer Student.

²This first year of French does not count toward the major.

³Required 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.

⁴French 220 a,b is recommended but does not count towards major or minor requirements.

⁵One 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) and 14 hours on the 400 level (to include FL 436). A minor in French 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, 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.

The Department of Geography provides a comprehensive curriculum to undergraduate students. The Bachelor of Science in Education prepares a student for secondary school teaching.

While students will generally avoid in-depth specialization at the undergraduate level, the program offers a breadth of courses in the field of geography. Students experience course work in economic, urban and regional planning resource management, and physical geography as well as in-depth studies in regional courses such as Illinois, United States and Middle and South America.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 110	Earth Science	3	-
GSA 330	Weather	-	3
GSB 103	Geography of the Human Environment	3	-
GSC	Humanities (select) ²	3	3
GSD 101, & 117, 118 or 119	English Composition and Writing (select) ²	3	2
GSD 107	Intermediate Algebra	-	4
GSE	Human Health and Well Being (select) ²	2	-
GSE 201	Healthful Living ²	-	2
ED 201	The Teacher's Role in Public School Education	1	-
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	3
GSA 322	Earth's Mineral Resources	-	3
GSB 212, 300 or 301	American Government or History of U.S. ²	4 (3)	-
GSC	English elective in Humanities (select) ²	3	-
GSD 153	Public Speaking ²	-	2
GEOG 302	Physical Geography	-	3
GEOG 310	Introduction to Cartography	3	-
Elective ^{2,3}		4	4
		<u>17 (16)</u>	<u>15</u>

¹ See also the program under the College of Liberal Arts.

² To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student. The following specific General Studies courses are required for teacher certification (these courses may be completed during the freshman or sophomore years): GSB 202, Introduction to Psychology; GSD 212, Introduction to American Government and Politics or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118, or 119, Expository, Technical, or Creative Writing; GSD 153 Public Communication; GSE 110-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

³ Elective hours should be used in the following ways; (1) students may explore areas of interest; (2) they may select a minor.

Geography As A Major

The Department of Geography has an abundance of resources to supplement its instructional program. Morris Library contains over 100,000 maps used by geography majors in research and training. The maps include special regional displays as well as topographic maps.

The department also maintains a cartographic laboratory where students obtain training in map construction and preparation. The laboratory is an integral part of geographic research studies as well as spatial studies.

Climatological and meteorological facilities are maintained by the department and staff who are involved in weather studies and research. The resources are used by students in their climatology and meteorology courses.

Finally, the area of 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 provides a comprehensive curriculum for undergraduate students. Students may pursue 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, environmental, and governmental careers. The Bachelor of Science in the Education degree program prepares a student for secondary school or junior college teaching.

The program offers a breadth of courses in the field of geography. Students experience course work in economic, urban and regional planning, resource management, and physical geography as well as in-depth studies in regional courses covering Illinois, U.S., and Middle and South America.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 103	Geography of the Human Environment (optional)	3	-
GSC	Humanities (select) ¹	3	3
GSD 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		14	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	3
GSC or FL	Humanities (select) ¹ or Foreign Language ²	3 (4)	3 (4)
GSD	Speech (select) ¹	-	2 (3)
GEOG 310	Introductory Cartography ⁴	-	3
GEOG 300	Introduction to Geography ³	3	-
MATH or CS	Mathematics or Computer Science ⁵	-	3
Elective ⁶		<u>3</u>	<u>-</u>
		15-16	14-16

*See also the program in the College of Education.

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

²Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

³Required by the major.

⁴Although Geography 310 is required only for the social/urban planning and the physical environmental systems specializations, it can also be used for the other specializations.

⁵One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁶Elective 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).

Geography As A Major

The Department of Geography has an abundance of resources to supplement its instructional program. Morris Library contains over 100,000 maps used by geography majors in research and training. The maps include special regional displays as well as topographic maps.

The department also maintains a cartographic laboratory where students obtain training in map construction and preparation. The laboratory is an integral part of geographic research studies as well as spatial studies.

Climatological and meteorological facilities are maintained by the department and staff who are involved in weather studies and research. These resources are used by students in their climatology and meteorology courses.

Finally, the area of 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, Researcher, Economic Geographer, Political Geographer, Urban Geographer, Physical Geographer, Regional Geographer, Cartographer, Map Cataloger, Regional Analyst, Photo-Intelligence Specialist, Climatological Analyst, Community Planner, Editor, Air Traffic Controller, Map Librarian, Cultural Geographer, Location Analyst, Weather and Climate Analyst, Sales Representative, Resource Management Personnel, Planner, Construction Geographer, Highway Planner, Conservation Specialist.

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 the petroleum, coal and other mining industries, state and federal geological surveys, other minerals-related industries, private and public organizations concerned with the development of water resources, engineering firms, and government agencies concerned with planning, land use, geologic hazards, construction, and land reclamation. Many geologists become teachers at a variety of levels from grade school to college. The Department of Geology at SIUC can provide students with sound, broad training in geology.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GEOLOGY 220	Physical Geology ¹	3	-
GEOLOGY 221	Historical Geology	-	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository Writing or Technical Report Writing	-	2
MATH 110 or 111	College Algebra and Trigonometry ^{1,4}	3	2
CHEM 222 a, b	Introduction to Chemical Principles ^{1,4}	4	4
GSB	Social Studies	-	3
GSE	Health and Physical Development	1	1
		<u>14</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
PHYS 203, 253			
or 205, 255	College Physics or University Physics ^{1,3}	4	4
FL	German, Russian or French recommended ^{1,4}	4	-
GSD 152 or 153	Speech	2 (3)	-
GSC	Humanities	-	3
GSE	Health and Physical Development	1	1
GEOLOGY 310 or	Mineralogy ²	4	-
MATH 150	Calculus I ³	4	-
GEOLOGY 474 or	Geomorphology ²	-	3
GSB	Social Studies	-	(3)
		<u>15 (16)</u>	<u>15</u>

¹Substitutes for General Studies requirements.

²If more advanced geology courses such as mineralogy and geomorphology are not offered at your school, take calculus, social studies, humanities or a good botany or zoology course 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 or mathematics.

³If Physics 205 is taken, the student must enroll concurrently (or previously) in Math 150.

⁴Students 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 allow some concentration on specific 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, science or technology electives and free electives. Students are encouraged to take independent field and laboratory research problems in their senior year.

Geology As A Major

Students in geology can work toward a Bachelor of Arts or a Bachelor of Science degree. The Bachelor of Science curriculum is recommended for those planning to pursue graduate studies or a professional career in geology. A summer field course in the Rocky Mountains is required for the B.S. degree and is strongly recommended for the B.A. degree. This course is normally taken between the junior and senior years. The Department of Geology has appreciable holdings of modern geologic laboratory and field equipment. Students are permitted to utilize this equipment in courses 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 considerable 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, Conservation Scientist, Economic Geologist, Geochemist, Geological Engineer, Geological Oceanographer, Geological Researcher, Geophysical Exploration Scientist, Geophysicist, Groundwater Geologist, Petroleum Geologist, Photogeologist, Resource Evaluator, Sedimentologist, Stratigraphist, Surveying Geologist, Geomorphologist, Structural Geologist, Product Studies and Testing Geologist.

GERMAN*

College of Liberal Arts
(Bachelor of Arts)

Dr. Helmut Liedloff, Chairperson

Telephone - 618-536-5571

Faner Building, Room 2166

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, 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 wishing to work towards this major are encouraged to take an Asian language.

Students majoring in a foreign language usually begin at the second- or third-year level.

The student who has taken two years of one foreign language in high school (or equivalent) may earn proficiency credit through taking a proficiency exam in French, German, Latin, Spanish at the Testing Center, or in Chinese, Greek, Japanese, Russian at the Foreign Languages and Literatures Department. For additional credit, students with more than two years are encouraged to take a validating course. Students with four years in one foreign language at the high school level are encouraged to continue with that language. Since proficiency 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>
GSA	Science (select) ¹	-	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GER 126a,b	Elementary German ²	4	4
GSE	Human Health and Well Being (select) ¹	2	-
GSD	Math (select) ¹	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	3	-
GSD	Speech (select) ¹	2 (3)	-
GER 201a,b	Intermediate German ³	4	4
GSE	Human Health and Well Being (select) ¹	2	-
MATH or CS	Mathematics or Computer Science ⁴	-	3
		<u>14</u>	<u>13</u>

*See also Foreign Language Education under the College of Education.

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

²Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead. The first year of German does not count on the major.

³Required 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.

⁴One 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 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, Reporter, Assistant Librarian, Rewriter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Recreation Specialist, Interpreter.

HEALTH EDUCATION
(Community Health)
College of Education
(Bachelor of Science)

M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Dr. Donald Boydston, Chairperson
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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition	3	-
GSD 117, 118			
or 119	Writing (select) ¹	-	2
GSE	Human Health and Well Being (select) ¹	2	2
Electives		<u>2</u>	<u>3</u>
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	-	3
GS	Additional course work from A, B, or C (select) ¹	-	3
GSD 152 or 153	Interpersonal Communication or Public Speaking	2 (3)	-
GSD	Math (select) ¹	-	4
Electives		<u>6</u>	<u>5</u>
		14 (15)	15

¹Refer to the section General Studies 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)

M. Frances Giles
Coord. of Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Dr. Donald Boydston, Chairperson
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>
GSA	Science (select) ¹	3	3
GSB 202	Introduction to Psychology ²	3	-
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition ²	3	-
GSD 117, 118			
or 119	Writing (select) ^{1,2}	-	2
GSD	Mathematics (select) ¹	-	4
GSE 201	Healthful Living ²	-	2
GSE	Human Health and Well Being (select) ^{1,2}	1	-
EDUC 201	Teacher's Role in Public School Education	-	1
Electives		3	-
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB 300, 301			
or 212	History of U.S. or American Government ²	3	-
GSB	Social Science (select) ¹	-	3
GSC	English Elective in Humanities (required) ²	3	-
GSD	Speech (select) ^{1,2}	-	2
GSE	Human Health and Well Being ²	1	-
Electives		8	7
		<u>15</u>	<u>15</u>

¹Refer to the section General Studies for the Transfer Student.

²The following specific General Studies courses listed are required for Teacher's Certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical Report, or Creative Writing; GSD 153, Public Speaking; GSE 110-114 (2 hours), Physical Education activities; GSD 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

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 Latin American/African 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>
GSA	Science (select) ²	3	3
GSB 202	Introduction to Psychology	3	-
GSB 300	Origins of Modern America, 1492-1877	-	3
GSC	Humanities (select) ²	3	3
GSD 101	English Composition	3	-
GSD 117, 118, or 119	Writing (select) ²	-	2
GSD 153	Public Speaking	-	2
GSE	Human Health and Well Being--activity	1	-
GSE 201	Healthful Living	-	2
ED 201	Teacher's Role in Public School Education	-	1
HIST 205	History of Western Civilization	3	-
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	-
GSB	Modern America from 1877 to Present	3	-
GSB	Social Studies (select) ²	-	3
GSC	English Elective in Humanities (select) ²	3	-
GSD	Math (select) ²	-	4
GSE	Human Health and Well Being--activity	1	-
HIST	Electives	6	9
		<u>16</u>	<u>16</u>

¹ See also the program under the College of Liberal Arts.

² Refer to the section General Studies for Transfer Students.

History As A Major

The following courses are required for teacher certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics OR GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118, 119, Expository, Technical, or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; one additional English course (GSC, GSD, or departmental).

The history major consists of 32 semester hours. From this, six courses must be distributed over either two or three fields chosen from American, European, or Latin American/African history offerings; i.e., either two courses in each of the three fields or three courses in two of the three fields. The student must also complete a total of 9 semester hours at the 400 level, and write a term paper in conjunction with one 400-level course.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
Hist	Western Civilization ²	3	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Speech (select) ¹	-	2 (3)
GSD	Math (select) ¹	4	-
GSE	Human Health and Well Being (select) ¹	2	2
		<u>15</u>	<u>15-16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 300, 301	History of the U.S. ²	3	3
GSB	Social Science (select) ¹	3	3
GSC or FL	Humanities (select) ¹ or Foreign Language ³	3 (4)	3 (4)
Math or CS	Mathematics or Computer Science ⁴	-	3
Elective ⁵		3	3
		<u>15-16</u>	<u>15-16</u>

*See also the program under the College of Education.

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

²Recommended by the major.

³Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁴One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁵Elective 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).

History As A Major

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.

The program in history is an excellent background for future work in law school, government service and other professional areas as well as graduate schools. The History Department maintains its own advisement system to help the student design a program which best suits his or her interests and needs. Exceptional students are invited to participate in a departmental honors program.

Representative First Job Titles: Administrative Assistant in Library, Administrative Assistant in Museum, Museum Curator, Archival Worker, Exhibit Preparation Historian, Genealogical Background Researcher, Legal Assistant, Administrative Aide, College, Sales Representative, Biography Writer, Political Systems Researcher, Religion & Philosophy Studies Historian, Sociological Researcher, American Government Studies Historian, Censoring (Officer) Historian, Volunteer (Peace Corps), Legislative Budget Analyst, International Law & Relations Researcher, Legislative Aide, Public Information Historian, Claims Authorizer, Director (Community Historical Society), Editor.

HOME ECONOMICS EDUCATION

(Educational Services)
College of Education
(Bachelor of Science)

M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Anna C. Fults Khattab, Coordinator
Telephone - 618-453-3321
Pulliam Hall, Room 210

This program prepares students for positions in agencies and businesses which provide educational services. Such tasks as developing informational materials, working with individual customers or clients, coordinating conferences and demonstrating products might be included in the job description for such positions.

Teacher certification is not required for this specialization.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	3
GSB 211 or 212	Contemporary Economics ² or Intro. to American Government and Politics	3 (4)	-
GSC 101	Introduction to Art ²	-	3
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Writing (select) ¹	-	2
GSE	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		14 (15)	13
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 202	Introduction to Psychology ²	3	-
GSB 203	The Sociological Perspective ²	-	3
GSB 206 or C&F 227	Applied Child Development ² or Marriage and Family Living	-	4
GSD 152 or 153	Interpersonal Communication or Public Speaking	2 (3)	-
GSD Electives	Mathematics (select) ¹	-	4
		<u>6</u>	<u>6</u>
		14 (15)	17

¹Refer to section General Studies for the Transfer Student.

²Required by the major.

Home Economics Education As A Major

A minor is not required. Foreign language is not required.

Graduate degrees available.

HOME ECONOMICS EDUCATION
(Home Economics Extension)
College of Education
(Bachelor of Science)

M. Frances Giles
Coordinator of Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Anna C. Fults Khattab, Coordinator
Telephone - 618-453-3321
Pulliam Hall, Room 210

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. Southern Illinois University is so approved for training home economics teachers.

These courses prepare a person for positions as Home Advisors, 4-H Club Agents or Advisors, and, with further training, extension specialists.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB 203	The Sociological Perspective	4	-
GSB 212	Intro. to American Government & Politics	-	4
GSC 101	Introduction to Art	3	-
GSD 107	Intermediate Algebra	4	-
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSE	Human Health and Well Being	-	2
F&N 100	Fundamentals of Nutrition	3	-
Chem 140a	Chemistry ²	-	4
C&T 127	Clothing Construction	-	2
		<u>17</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	-	3
GSB 202	Introduction to Psychology	3	-
GSE 201	Healthful Living	-	2
GSC	Humanities (select) ¹	3	3
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	-	3
C&T 150	Survey of Clothing	-	2
F&N 156	Fundamentals of Foods	3	-
Chem 140b	Survey of Chemistry	4	-
GSD 153	Public Speaking	-	3
		<u>16</u>	<u>16</u>

¹ Refer to section General Studies for the Transfer Student.

² Approved substitute for General Studies.

Refer to Undergraduate Catalog for departmental requirements and requirements taught via General Studies.

Home Economics Education As A Major

No minor is required. No foreign language required.

Child Development practicum in Nursery school; Home Management practicum; supervised student teaching in an area high school; Field experiences with a Home Economics Extension advisor are available.

Occupational education programs are included as well as emphasis on consumer-homemaking so that graduates qualify for the new curricular emphasis in Illinois High Schools.

Graduate degrees available.

HOME ECONOMICS EDUCATION

(Teacher Certification)
College of Education
(Bachelor of Science)

M. Frances Giles
Coordinator of Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Anna C. Fults Khattab, Coordinator
Telephone - 618-453-3321
Pulliam Hall, Room 210

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>
GSB 203	The Sociological Perspective	3	-
GSC 101	Introduction to Art	3	-
GSD 107	Intermediate Algebra	4	-
GSD 101	English Composition ¹	3	-
GSD 117 or 118	Technical Report or Expository Writing ¹	-	2
GSD 153	Public Speaking ¹	-	3
GSE 201	Healthful Living ¹	-	2
CHEM 140	Chemistry ²	-	4
C&T 127	Clothing Construction	-	3
ED 201	Teacher's Role in Public School Education	-	1
F&N 100	Fundamentals of Nutrition	3	-
GSC	Humanities (select) ³	-	3
		<u>16</u>	<u>18</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ³	3	3
GSB 202	Introduction to Psychology ¹	3	-
GSB 212	Introduction to American Government & Politics ¹	-	4
GSC	English Elective in Humanities (select) ¹	-	3
GSE	Human Health and Well Being (select) ¹	-	2
C&F 237	Child Development	-	3
C&F 227	Marriage and Family Living	3	-
FEM 340	Consumer Problems ⁴	2	-
F&N 156	Fundamentals of Foods	3	-
ID 131	Introduction to Design, Home Furn. and Int.	4	-
VES 320	Home Economics as a Profession	-	1
		<u>18</u>	<u>16</u>

¹The following courses are required for teacher certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics or GSB 300 or 301, U.S. History; GSD 101 English Composition, GSD 117, 118 or 119, Expository Technical Report or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education activities; GSE 201, Healthful Living; and one additional English course (GSC, GSD, or departmental).

²Substitutes for GSA 106 Chemistry for non-science majors.

³Refer to section General Studies for the Transfer Student.

⁴Or GSB 346 Consumer Choice and Behavior.

Home Economics Teacher 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.

Occupational education programs are included as well as emphasis on consumer-homemaking so that graduates qualify for the new curricular emphasis in Illinois High Schools.

Graduate degrees available.

HOME ECONOMICS EDUCATION
 (Teaching Vocational Home Economics
 Specialization, Special Education Emphasis)
 College of Education
 (Bachelor of Science)

M. Frances Giles, Coordinator
 Teacher Education Services
 Telephone - 618-453-2354
 Wham Building, Room 135

Anna C. Fults Khattab, Coordinator
 Telephone - 618-453-3321
 Pulliam Hall, Room 210

This program prepares home economics teachers for special needs learners.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 202	Introduction to Psychology ³	-	3
GSB 203	Sociological Perspective	4	-
GSC 101	Introduction to Art	3	-
GSD 101	English Composition ³	3	-
GSC	Humanities (select) ¹	3	-
GSD 107	Intermediate Algebra	-	4
GSD 118	Technical Report Writing ³	-	2
F&N 100	Fundamentals of Nutrition	-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 153	Public Speaking ³	3	-
Chem 140	Survey of Chemistry ²	4	-
GSB 212	Introduction to American Government & Politics ³	-	4
GSC	English Elective in Humanities (select) ¹	3	-
GSE 201	Healthful Living ³	2	-
GSE	Human Health and Well Being (select) ^{1,3}	-	2
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	-	3
C&T 127	Clothing Construction	-	3
Educ 201	Teacher's Role in Public School Education	1	-
Elective		-	3
		<u>16</u>	<u>15</u>

¹ Refer to section General Studies for the Transfer Student.

² Substitutes for GSA 106, Chemistry for non-science majors.

³ The following courses are required for teacher certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, U.S. History; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical Report, or Creative Writing; GSB 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; one additional English course (GSC, GSD, or departmental).

The Industrial Technology program has as its objective the training of qualified personnel who can develop and direct the manufacture and distribution of products. The program is a balanced curriculum of studies drawn from a variety of disciplines relating to processes, principles of distribution, and concepts of industrial management and human relations. Communication skills, humanities, and social sciences are studied to develop managerial abilities. Knowledge of physical sciences, mathematics, design, and technical skills gained from the program allow the graduate to cope with technical and production problems.

The specialty is designed to provide the necessary education for entry into employment upon completion of the bachelor's degree. Industrial Technology courses contain topics related to the manufacture and distribution of products.

Requirements for a concentration in Industrial Technology include one of four elective areas: Industrial Design, Manufacturing, Supervision and Personnel, or Technical Sales.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 106	Chemistry for Non-Science Majors ¹	-	3
GSB	Social Science (select)	3	3
GSC	Humanities (select)	-	3
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSE	Human Health and Well Being (select)	-	2
ET 103, 104	Engineering Drawing I, II	3	3
MATH 111	Algebra and Trigonometry ²	5	-
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Social Science (select)	-	3
GSC	Humanities (select)	6	-
GSD 153	Public Speaking	-	2
ET 245a	Electrical Systems for Industry	-	3
IT 309	Industrial Processes I	4	-
IT 310	Industrial Processes II	-	4
PHYS 203a,b & 253a,b	College Physics and Lab ²	4	4
ENGR 222	Computational Methods	2	-
		<u>16</u>	<u>16</u>

¹ Recommended, not required.

² Substitutes for General Studies requirements.

Third and Fourth Year

To advance to upper division courses and be classified under a specific departmental major, a pre-industrial technology student must have completed the following four courses or their accepted equivalencies with a minimum grade of C in at least three of the four courses: Mathematics 111; Physics 203A; ET 103 and ENGR 222.

To remain in the College, students are subject to the additional 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 grade point averages are courses with the prefix IT.

The last two years of a student's program concentrate on specialized objectives. For transfer students with an Associate degree in an occupational program the required courses are dependent on the student's previous program.

Industrial Technology 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 55 semester hours in the Industrial Technology core, and 20 in the technical specialization.

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 exceed that for all other occupational groups. To the technologist, industry offers interesting and rewarding positions with considerable potential for growth and development.

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 production-related functions.

Representative First Job Titles: Manufacturing Manager, Production Planning and Control, Quality Assurance Specialist, Safety Engineer, Plant Manager.

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.

Course Requirements

The program is primarily designed to provide a capstone of subject matter for those students completing 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 on 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.

Industrial Technology (Mining) As A Major

To advance to upper division courses and be classified under a specific departmental major, a pre-industrial technology student must have completed the following four courses or their accepted equivalencies with a minimum grade of C in at least three of the four courses: Mathematics 111; Physics 203A; ET 103 and ENGR 222.

To remain in the College, students are subject to the additional 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 grade point averages are courses with the prefix IT.

Career Opportunities

Employment opportunities in the mining industry are practically unlimited with many top management positions available for college educated people with mining experience.

Representative First Job Titles: Production Planning and Control, Quality Assurance Specialist, Safety Engineer.

The Division of Comprehensive Planning and Design offers a concentrated course of study in interior design. Through emphasis on professional interior design problems and standards, architectural technology, art, graphic design, business practice, and the history of architecture and interior design, the student receives a comprehensive, interdisciplinary education in preparation for designing and administrative positions in the fields of residential, commercial, and contract design. The Interior Design program is accredited by the Foundation for Interior Design Education Research.

The profession of interior design is a young and growing one offering unusual opportunities to those with design ability. The environmental needs of a changing society offer challenges which can be met only by imagination, skill, and training. The interior designer, industrial designer, architect, landscape architect, and urban planner often collaborate in planning and creating environmental spaces to serve human needs and aspirations; the interior designer is vital to the team in determining the quality of interior space. An interior design graduate is qualified to practice professionally in an interior design studio, space-planning firm, architectural firm, as well as in industrial design, retail sales, or in institutions and government agencies. Below is a recommended course of study for undergraduates.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101 & 117,			
118 or 119	English Composition ¹ and Writing (select) ¹	3	2
GSD 107	Intermediate Algebra ¹	4	-
GSC 101	Introduction to Art	-	2
GSE	Human Health and Well Being (select)	-	2
ART 200	Beginning Drawing ²	2	-
STC 215a,b	Drafting Graphics ²	3	3
ID 231	Introduction to Interior Design ²	3	-
ID 332a	Construction Methods & Materials ²	-	6
		15	15
<u>Second Year*</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology	-	2
GSC 205	Innovation for the Contemporary Environment	3	-
GS	Select from Areas A,B,C,D,E	2	2
C&T 104	Basic Textiles ²	2	-
ID 390	Design Presentation and Delineation ²	3	-
ID 332b	Construction Methods and Materials ²	3	-
ID 391a	Intermediate Interior Design	-	4
ID 381, 382	Furniture & Interior Design History ²	2	2
ID 300	Display & Exhibition Design	-	2
ID 393	Architectural Analysis	-	3
		15	15

¹ Required General Studies courses.

² These courses are required for an Interior Design major. For specific information regarding the acceptability of a major requirement from a junior college, you may contact the coordinator of the Interior Design program. Examples of work must be presented to, and approved by I.D. Coordinator for credit transfer.

*Transfer students should concentrate on General Studies courses during the second year, since more advanced major courses should be taken at SIUC.

Third and Fourth Year

Studies during the third and fourth years consist of Design Studios and selected courses in Architecture and Advanced Interior Design. Special emphasis is given toward departmental requirements and recommended elective courses. Third and fourth year Interior Design courses include ID 383, 384, 391a,b,c, 394 and 491.

General Studies other than those marked "1" are highly recommended for Interior Design majors.

Because of the large number of laboratory classes in Interior Design, the junior college transfer student who has completed an associate degree may require up to three years' additional study to complete the baccalaureate degree.

Representative First Job Titles: Interior Designer, Assistant to the Architect, Customer Services Specialist, Design Reviewer, Manufacturer's Representative, Price Analyst, Researcher, Customer Relations Officer, Architectural Interior Designer, Exhibition Designer, Home Furnishing Consultant, Office Landscape Design, Public Building Interior Designer, Commercial Interior Designer, Residential Interior Designer, Decorations Selector, Space Planner, Purchasing Specialist, Theater Designer, Retail Merchandising Supervisor.

JOURNALISM

(News Editorial)

(Advertising)

(Photojournalism)

College of Communications and Fine Arts

(Bachelor of Science)

Dr. Vernon Stone, Director

Telephone - 618-536-3361

Communications Bldg North Wing

Journalism courses are designed to give thorough professional training in both theory and practice in a number of career areas. These include news-editorial and advertising positions on newspapers magazines, industrial publications, cable communications systems, and other news media; in other advertising careers; and in public relations, media management, photojournalism, teaching, and research.

Undergraduates are urged to enter the School of Journalism immediately in order that they may obtain the advantage of Journalism Advisement. Students may take JRNL 300 during their second semester in the freshman year. Proficiency in typing is required (30 words per minute) to enter JRNL 310, the first writing course.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB	Social Studies (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 113	Introduction to Math	2	-
GSD 112	Basic Concepts of Statistics	-	2
GSD 101	English Composition	3	-
GSD 117, 118, 119	Writing (select one) ¹	-	2
GSD 152, 153	Interpersonal Communication or Public Speaking	-	2 (3)
GSE	Human Health and Well Being (select) ¹	1	1
Elective		3	-
JRNL 300	Mass Media in Modern Society	-	3
		<u>15</u>	<u>16 (17)</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	-	3
GSC	Humanities (select) ¹	3	3
GSE	Human Health and Well Being (select) ¹	1	1
*JRNL 370	Principles of Advertising	3	-
*JRNL 310	Writing for the Mass Media	-	3
Electives		<u>5</u>	<u>2</u>
		<u>15</u>	<u>15</u>

*Required courses for major in Journalism.

¹See section on General Studies for the Transfer Student.

See also Journalism in College of Education for Teacher Certification requirements.

Journalism As A Major

In addition to the General Studies courses, the academic requirements for a Bachelor of Science Degree in Journalism include 30-34 hours in journalism course work as approved by the School, 26-30 hours of upperclass electives outside the area of journalism, and 15 hours in a minor area approved by the School. The minor must be declared by the time a student has accrued 90 semester hours.

Students at community colleges are encouraged to complete general courses (equivalent of General Studies) and earn electives in areas of interest. It is preferred that students earn credit for courses in journalism skills at SIUC.

The School of Journalism is accredited by the professional accrediting agency, the American Council on Education for 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 allows the student to take the general requirements of this sequence, plus a variety of electives in such areas as: community and suburban newspaper journalism, and magazine journalism.

Photojournalism--This specialization, administered jointly by the School of Journalism and the Department of Cinema and Photography, prepares students to be photographer-reporters, photo editors, and to work in other related positions.

Graduate degrees are available.

Representative First Job Titles: Advertising Agent, Advertising Campaigns Planner, Advertising Campaigns Controller, Advertising Campaigns Executive, Media Scheduling Officer, Mass Communication Analyst, Photographer/Reporter, Photo Editor, Writer, Editor, Public Opinion Polls Manager, Publications Staff, Publicity Staff, Sales Agent, Telecommunications Expert, Newspaper Reporter, Newspaper Management Staff, Mass Media Management Staff, Copywriter, Newspaper Columnist, Magazine Production & Design Staff, Cable Communication Specialist, Graphic Communication Specialist, Researcher, Public Affairs Reporter.

LANGUAGE ARTS (ENGLISH AND READING)College of Education
(Bachelor of Science)M. Frances Giles
Coordinator of Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135Dr. Billy Dixon, Chairperson
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>
GSA	Science (select) ¹	3	-
GSB 212, 300			
or 301	Intro. to American Government or U.S. History ²	-	4 (3)
GSC	Humanities (select) ¹	3	-
GSD 101	English Composition ²	3	-
GSD 153	Public Speaking ²	3	-
GSD 117, 118			
or 119	Writing (select) ^{1,2}	-	2
GSD 107	Intermediate Algebra	-	4
GSE 201	Healthful Living ²	-	2
GSE	Human Health & Well Being-activity (select) ^{1,2}	2	-
ED 201	Teacher's Role in Public School Education	-	1
Electives		2	3
		<u>16</u>	<u>16 (15)</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSB 202	Introduction to Psychology ²	-	3
GSC 200	Oral Interpretation of Literature ^{2,3}	3	-
GSC 365	Shakespeare ²	-	3
Electives		6	6
		<u>15</u>	<u>15</u>

¹Refer to the section General Studies for the Transfer Student.

²The following specific General Studies courses are required for teacher certification (these courses may be completed during the freshman and sophomore years): GSB 212, Introduction to American Government and Politics or GSB 300 or GSB 301, U.S. History; GSB 202, Introduction to Psychology; GSD 101, English Composition; GSD 117, 118, or 119, Expository, Technical, or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activity; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

³Required for major.

Southern Illinois University at Carbondale traditionally has had a strong interest in Latin America. An unusually large number of faculty specialists offer many courses related to that region and the Morris Library contains an outstanding collection of Latin American materials. The University initiated its Latin American Studies program in 1958 to prepare students for careers in business, education and government and to serve others who desired more information about the nations south of the United States. An interdisciplinary program, it includes training in language, the social sciences and humanities. Beyond the minimum core of courses required for the major, maximum flexibility is provided to tailor the curriculum to the needs and interests of the individual student.

Latin American Studies majors also complete a minor or other coherent program (usually 15 to 18 hours) in a standard discipline or career specialty.

The College of Liberal Arts grants the Bachelor of Arts degree in Latin American Studies. The Latin American Studies Advisory Committee supervises the program. Interested students should consult the director for the Latin American Studies major.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 104	The Human Experiences-Anthropology ²	3	-
GSD 212	Intro to American Gov't & Politics (select) ²	-	4
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118, or 119	English Composition and Writing (select) ¹	3	2
SPAN 140a,b	First Year Spanish ³	4	4
GSE	Human Health & Well Being (select) ¹	<u>2</u> 15	<u>2</u> 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB 211	Contemporary Economics ²	-	3
GSC	Humanities (select) ¹	3	-
GSD	Speech (select) ¹	2 (3)	-
GSD	Math (select) ¹	-	4
SPAN 201a,b	Second Year Spanish ³	4	4
Elective ⁴		<u>3</u> 15 (16)	<u>-</u> 14

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

²Recommended but not required by the major.

³Required by the major.

⁴Elective 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).

Representative First Job Titles: Translator, Interpreter, Visitors' Guide, Communication Officer, International Students Coordinator, Public Information Officer, International Relations Officer, Writer, Border Patrol, Publications Staff, Archival Worker, Community Planning & Redevelopment Officer, Legislative Aide, International Trade Economist, International Banking Specialist, Stock Broker, Job Analyst, Loan Administrator, Market Research Analyst, Inspector, Immigration & Naturalization Dept., Museum Curator, Community Relations Officer, Manufacturer's Representative.

LAW ENFORCEMENT
 School of Technical Careers
 (Associate in Applied Science)

James Buckles
 Program Coordinator
 Telephone - 618-536-6682
 Faner B 4343

Law enforcement today demands a wide range of knowledge and ability to meet the complexities of modern society. This program is designed both for the individual entering the profession and for persons already serving in law enforcement who wish to upgrade their skills.

The student in this program will not be taught "police skills" that are taught in a police academy, such as firearms or personal defense. He or she will learn methods of crime control, criminal behavior, methods of crime detection, community problems in law enforcement, criminal law, and police administration. The student will develop an understanding of people and of interpersonal relationships.

The student will spend one term prior to graduation working under supervision with a police agency.

Police officers may enroll in the program on a part-time basis with the assurance that faculty members will help them to arrange classes compatible with their duty schedules.

Full transfer of credit is guaranteed to students who have completed certificate programs in law enforcement at cooperating community colleges.

An advisory committee made up of persons active in law enforcement assists the program.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
CLE 103	Introduction to Criminal Justice	3	-
CLE 105	Criminal Behavior	3	-
GSB 202	Introduction to Psychology	3	-
CLE 115	Interpersonal Relations in Criminal Justice	-	3
GSD 118	Technical Report Writing	-	2
CLE 108	Supervision in Criminal Justice	-	3
GSB 203	Sociological Perspective	-	4
CLE 220	Probation, Parole and Community Based Corrections	-	3
GSD 153	Public Speaking	-	3
CLE 205	Criminal Investigation	-	3
		<u>15</u>	<u>18</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CLE 209	Criminal Law I	3	-
GSB 212	Intro to American Government & Politics	4	-
CLE 221	Police Administration	3	-
Electives	(From GSA, GSC or GSE)	4	-
CLE 210	Criminal Law II	-	3
CLE 215	Internship in Criminal Justice Practice	-	9
Electives	(From GSA, GSC or GSE)	-	3
		<u>14</u>	<u>15</u>

A minimum of 62 hours is required for this program.

Representative First Job Titles: Police Officer, Detective, State Police Officer, Investigator, Guard, Crime Scene Technician.

The objective of the undergraduate major in linguistics is to provide broad, general training in theoretical and applied linguistics. The major is designed to help the student achieve an awareness of the language systems of the past, an appreciation of modes of communication, and a fundamental understanding of the ever-changing linguistic environment in which he or she lives. Moreover, the analytical models of linguistics have been recognized since the 1930's by other disciplines (notably anthropology, psychology, and sociology) as significant research paradigms; education in linguistics methods trains a student to think analytically, to evaluate hypotheses, and to propose new solutions.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
FL	Foreign Language ²	4	4
GSD 101 & 117, 118, or 119	English Composition and Writing (select) ¹	3	2
GSD	Math (select) ¹	-	4
GSE	Human Health & Well Being (select) ¹	<u>2</u>	<u>-</u>
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSC	Humanities (select) ¹	-	3
FL	Foreign Language Second Year ²	4	4
GSD	Speech (select) ¹	-	2(3)
GSE	Human Health & Well Being (select) ¹	2	-
Electives ³		3	-
Math or CS	Mathematics or Computer Science ⁴	<u>-</u>	<u>3</u>
		15	15 (16)

¹To determine what courses may be taken to satisfy the general education requirements for this program, see the section, General Studies for the Transfer Student.

²There 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

³Elective 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).

⁴One 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: Translator, Interpreter, Visitors' Guide, Communication Officer, International Students Coordinator, Public Information Officer, International Relations Officer, Writer, Border Patrol, Publications Staff, Archival Worker, Community Planning & Redevelopment Officer, Legislative Aide, International Trade Economist, International Banking Specialist, Stock Broker, Job Analyst, Loan Administrator, Market Research Analyst, Inspector, Immigration & Naturalization Dept., Museum Curator, Community Relations Officer, Manufacturer's Representative.

MARKETING

College of Business and Administration
(Bachelor of Science)

Dr. William Dommermuth
Telephone - 618-453-4341
General Classrooms Bldg., Room 229

Marketing consists of the performance of those activities associated with the flow of goods and services from producers to consumers and business users. 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 the 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.

First Year		Fall	Spring
GSA	Science (select) ¹	3	6
GSB	Social Science (select) ¹	3	-
*GSB 202	Introduction to Psychology	3	
GSC-3 or GSE-2	Humanities (select) ¹ or Human Health and Well Being	3 (2)	-
GSC	Humanities (select) ¹	-	3
*GSD 101 & 117, 118 or 119	English Composition & Writing (select) ¹	3	2
*MATH 116-5 or 139-3	Finite Mathematics and Algebra	3 (5)	-
*ADSC 208	Interpretation of Business Data	-	4
		15 (16)	15
Second Year		Fall	Spring
*ACCT 220, 230	Financial Managerial Accounting	3	3
*CS 212 or EDP 217	Intro. to Computer Programming (PL1) or Computing for Business Admin. (Fortran)	-	3
*MATH 117-5 or 140-4	Finite Mathematics and Calculus or Short Course in Calculus	4 (5)	-
*ECON 214, 215	Economics, Macro and Micro ²	3	3
GSA	Science (select) ¹	-	3
*GSD 153 or 152	Public Speaking or Interpersonal Communication	3 (2)	-
GSC-3 or GSE 2	Humanities (select) ¹ or Human Health and Well Being (select) ¹	3 (2)	-
GS- ---	General Studies Electives	-	3
		16 (15)	15

*Required course for a major in Marketing.

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

² Econ 214 or 215 counts toward GSB credit.

Marketing As A Major

Neither minor nor foreign language required.

Graduate degree 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 recognized 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.

Representative First Job Titles: Marketing Assistant, Retail Marketing Representative, 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>
GSA	Science (select) ²	3	3
GSB 212, 300, or 301	American Government or U.S. History ³	-	4 (3)
GSC	Humanities (select) ²	3	-
GSD 101	English Composition ³	3	-
GSD 117 or 118 or 119	Writing (select) ^{2,3}	-	2
GSE 201	Healthful Living ³	2	-
*MATH 111	College Algebra and Trigonometry	5	-
MATH 150	Calculus I	-	4
CS 202	Introduction to Computer Programming	-	3
		<u>16</u>	<u>16 (15)</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	-
GSB	Social Studies (select) ²	-	3
GSB 202	Introduction to Psychology ³	3	-
GSC	English elective in Humanities (select) ^{2,3}	-	3
GSC	Humanities (select) ²	3	-
GSD 153	Public Speaking ³	-	3
GSE	Human Health and Well Being--activity ³	2	-
MATH 250	Calculus II	4	-
MATH 221	Introduction to Linear Algebra	-	3
MATH 319	Introduction to Abstract Algebra	-	3
MATH 319E	Modern Algebra Applied to Secondary Schools	-	1
ED 201	Teacher's Role in Public School Education	1	-
		<u>16</u>	<u>16</u>

*Approved substitute for GSD Math.

¹See also the program under the College of Liberal Arts. The College of Science also offers a B.S. in Mathematics.

²Refer to the section General Studies for the Transfer Student.

³The following courses are required for teacher certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics OR GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118, or 119, Expository, Technical, or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; One additional English course (GSC, GSD, or departmental); Math 111, College Algebra and Trigonometry.

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.

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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
Math 111	College Algebra and Trigonometry ²	5	-
Math 150	Calculus I ³	-	4
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	-	3
GSD	Speech (select) ¹	2(3)	-
GSE	Human Health and Well Being (select) ¹	-	2
Math 250	Calculus II ³	4	-
Math 251	Calculus III ³	-	3
Math 221	Introduction to Linear Algebra ³	-	3
CS 202	Introduction to Computer Programming ³	3	-
FL	Foreign Language ⁴	4	4
		<u>16(17)</u>	<u>15</u>

*See also the programs (B.S.) under the College of Education and the College of Science.

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

²Proficiency exams can be taken in this course. Math III is a substitute for GSD Math.

³Required by major.

⁴Math majors must complete eight semester hours of one foreign language. 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC.

Mathematics As A Major

Students majoring in mathematics through the College of Liberal Arts must satisfy College requirements (see College of Liberal Arts section). Students must earn a grade of "C" or higher in mathematics courses numbered 150 or above. Also, math majors must complete six additional hours in an approved area for a secondary concentration.

The Department of Mathematics has graduate programs at both the Master's and Doctoral levels.

Graduates of this program find employment in various organizations which rely on the use of mathematical principle and procedures in phases of their operation or they often take teaching positions. Many industries that hire mathematicians are engineering or science oriented such as aircraft and missile, chemical, electrical equipment, fabricated metals, and petroleum industries, but also employers are hiring mathematicians in business and economic related positions to help with managerial decisions. Excellent career opportunities exist in statistical and actuarial work launched from undergraduate mathematics programs, and mathematics graduates are highly valued in MBA (Master of Business Administration) programs.

Honors work available.

Representative First Job Titles: Junior Systems Analyst, Actuary (or Actuarial Assistant), Cryptographer, Mathematician, Operations Research Analyst, Statistician, Biometrician, Demographer, Contract Administrator, Inventory Controller, Investment Analyst, Wage-Salary Administrator, Computing Analyst, Cyberneticist, Information Scientist, Accounting Trainee, Research Mathematician, Mathematical Programmer, Methods Analyst, Technical Sales Representative, Market Analyst.

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 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>
	Biological Sciences ¹	3	3
GSB	Social Science (select) ²	3	3
GSC	Humanities (select) ²	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ²	3	2
Math 111	College Algebra and Trigonometry ³	5	-
Math 150	Calculus I ³	-	4
GSE	Human Health & Well Being (select) ²	<u>1</u>	<u>1</u>
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
	Physical Sciences ¹	3	3
GSB	Social Science (select) ²	-	3
GSC	Humanities (select) ²	3	-
GSD	Speech (select) ²	2(3)	-
GSE	Human Health and Well Being (select) ²	-	2
FL	Foreign Language ⁴	4	4
Math 250, 251	Calculus II and III ³	<u>4</u>	<u>3</u>
		16(17)	15

*See also the programs (B.S.) under the College of Liberal Arts and the College of Education.

¹The College of Science requires six semester hours in departmental (not GSA) biological sciences, and six semester hours in departmental (not GSA) physical sciences. Choosing from the following will also meet General Studies requirements: Biology 305, 306, 307, 308, 309; Botany 200; Zoology 118; Physiology 210; Chemistry 115, 140 222, 224, 225; Geology 22; Physics 203, 205 253, 255. See list of approved substitutions for specifics.

²See section on General Studies for the transfer student.

³Required by major.

⁴The 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 GSC humanities credit.

As A Major

Students majoring in through the College of Science must satisfy that College requirements (see College of Science section). Students must earn a grade of "C" or higher in courses numbered 150 or above. Also, math majors must complete six additional hours in an approved area for a secondary concentration.

The Department of has graduate programs at both the Master's and Doctoral levels.

Graduates of this program find employment in various organizations which rely on the use of mathematical principle and procedures in phases of their operation or they often take teaching positions. Many industries that hire mathematicians are engineering or science oriented such as aircraft and missile, chemical, electrical equipment, fabricated metals, and petroleum industries, but also employers are hiring mathematicians in business and economic related positions to help with managerial decisions. Excellent career opportunities exist in statistical and actuarial work launched from undergraduate programs, and graduates are highly valued in MBA (Master of Business Administration) programs.

Honors work available.

Representative First Job Titles: Junior Systems Analyst, Actuary (or Actuarial Assistant), Cryptographer, Mathematician, Operations Research Analyst, Statistician, Biometrician, Demographer, Contract Administrator, Inventory Controller, Investment Analyst, Wage-Salary Administrator, Computing Analyst, Cyberneticist, Information Scientist, Accounting Trainee, Research Mathematician; Mathematical Programmer, Methods Analyst, Technical Sales Representative, Market Analyst.

Microbiology deals with the study of micro-organisms, including bacteria, viruses, rickettsiae, 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 diagnostic bacteriology, virology, immunology, genetics, biochemistry and industrial processes are available.

First Year		Fall	Spring
FL	Foreign Language ^{1,3}	4	4
CHEM 222a,b	Introduction to Chemical Principles ^{1,3}	4	4
MATH 110a,b or MATH 111	College Algebra and Trigonometry ³	3 (5)	2 (-)
GSA 115	Biology	-	3
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSE	Human Health and Well Being	1	1
		15 (17)	16 (14)
Second Year		Fall	Spring
MICR 301	Principles of Microbiology	3	-
MICR 302	General Microbiology ³	-	3
BIOL 305	Genetics-Classical & Molecular ^{1,3}	3	-
BIOL	Biology (select) ^{1,2,3}	-	3
CHEM 344, 345, and 346, 347	Organic Chemistry and Lab	6	5
PHYS 203a,b and 253a,b	College Physics and Lab	4	4
GSE	Human Health and Well Being (select)	-	1
		16	16

¹Approved substitutes for General Studies.

²Any one of Biology 306, 307, 308, 309.

³Students 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 student fulfills remaining General Studies requirements, and chooses electives in microbiology to match his or her professional interests.

Microbiology As A Major

A student may direct his or her career toward such fields as: (1) the clinical and public health laboratory; (2) the food and beverage industries; (3) pharmaceutical industries involving the discovery and production of antibiotics and other therapeutic drugs, the discovery and production of vaccines, possibly effective even against cancer; (4) the soap and detergent industries; (5) agriculture by enriching and maintaining the fertility of the soil and by controlling diseases which ravage our cultivated crops and livestock. Excellent teaching opportunities exist at the university level for the holder of the doctor's 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 to be found in many of the local, state, and federal agencies, as well as in industry, by the microbiologist with a good capacity for pure or applied research.

Graduate programs available.

Representative First Job Titles: Microbiologist, Medical Bacteriologist, Soil Microbiologist, Food Bacteriologist, Medical Laboratory Assistant, Technical Maintenance Personnel, Microbiostatistician, Embryologist, Genetics Research Technician, Serologist, Histologist, Cytologist, Parasitologist, Virologist, Microbiology Researcher, Wine Chemist, Fishery Bacteriologist, Quality Control Specialist, Biological Photography Staff, Manufacturer's Representative.

MORTUARY SCIENCE AND FUNERAL SERVICES

School of Technical Careers
(Associate in Applied Science)

Don Hertz
Program Coordinator
Telephone - 618-536-6682
STC - Building, Room 18C

SIUC offers the only public 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>
GSA 106	Chemistry for Non-Science Majors	3	-
GSA 115	Biology	3	-
GSB 202	Introduction to Psychology	3	-
GSD 101	English Composition	3	-
GSD 153	Public Speaking	-	3
Acct 110	Applied Accounting	-	3
Scr 208	Applied Law	-	3
GSD 117,118 or 119 or	Expository, Technical Report, or Creative Writing or		
STC 102	Technical Writing	-	2
MS 101	Orientation to Funeral Service	3	-
MS 102	Restorative Art	4	-
MS 108	Funeral Service Psychology	-	3
Elective	Health Education	-	2
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
MS 225a,b	Embalming Theory and Practice	4	4
MS 230	Mortuary Anatomy	4	-
MS 250a,b	Mortuary Management	4	4
MS 256	Introductory Microbiology	-	4
MS 257	Pathology	-	4
		<u>12</u>	<u>16</u>
		<u>Summer</u>	
MS 375a	Internship--Management	4	
MS 375b	Internship--Embalming	4	
MS 380	Funeral Service	2	
		<u>10</u>	

Mortuary Science As A Major

The Illinois statute governing the practice of funeral directing and embalming indicates the following requirements for those individuals who would secure the funeral director's and embalmer's trainee licenses:

1. A candidate must be at least eighteen years of age, a citizen of the United States and a resident of the state of Illinois; and be of good moral character and temperate habits.
2. He or she must successfully complete one academic year in a college or university approved and recognized by the Illinois Department of Registration and Education in addition to successfully completing a course of instruction of at least one year duration in a professional school or college teaching the practice of funeral directing and embalming.
3. He or she must study funeral directing or embalming in the state of Illinois under a funeral director or embalmer licensed by the state for a combined period of one year as a registered trainee.
4. A candidate must successfully pass licensure examinations administered by the State Board of Examiners in Funeral Directing and Embalming.

Successful completion of the program meets the education requirements in Illinois and many other states.

Prospective students should contact the licensing body of the state in which they decide to attempt licensure.

Representative First Job Titles: Funeral Director Trainee, Embalmer Trainee.

The bachelor of arts program is designed to provide a basis for various part time and musically related careers such as church music, music therapy, 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.

This 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>
GSA	Science (select) ²	3	3
GSB	Social Studies (select) ²	3	3
GSC	Humanities (select) ²	-	3
GSD 101, 117	English Composition; Expository Writing	3	2
GSD 107	Intermediate Algebra	4	-
GSE	Human Health and Well Being (select) ²	1	1
*MUS 102	Survey of Music Literature	-	2
*MUS 140	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
		<u>17</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	-
GSB	Social Studies (select) ²	-	3
GSD 152	Interpersonal Communication	-	2
GSE	Human Health and Well Being (select) ²	1	1
GSC	Humanities (select) ²	3	3
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 240	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
		<u>14</u>	<u>16</u>

*Required courses for a major in Music.

¹See also music education program in the College of Education.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student. Music 102-2 and 105a-3 count toward GSC 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 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, Music 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.

MUSIC¹

(Instrumental Performance)
College of Communications and Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

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 enrolls for and receives two half-hour lessons per week for 4 credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	-	3
GSC	Humanities (select) ²	-	2
GSD 101, 117	English Composition; Expository Writing	3	2
GSE	Human Health and Well Being (select) ²	2	-
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030a,b	Piano Class ³	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>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	-	3
GSB	Social Sciences (select) ²	-	3
GSD 107	Intermediate Algebra	4	-
GSE	Human Health and Well Being (select) ²	1	1
*MUS 240	Applied Music (principal instrument)	4	4
*MUS 030c,d	Class Piano ³	1	1
*MUS	Major Ensemble (see below)	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
		<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.

¹Music Education is also available in the College of Education.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student. Music 102-2 and 105a-3 count toward GSC requirements.

³Students 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-Sumphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Popular Music Specialist, Classical Music Specialist, Dance Band Player, Symphony Orchestra Artist, Rock Group Artist, Jazz Group Artist, Solo Performer, Music Marketing Specialist, Television Artist, Opera Artist, Folk Music Specialist, Composition Writer, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Brass Instruments Specialist, Woodwinds Instruments Specialist, Assistant to Music Director, Church Organist, Music Librarian, Music Therapist, Rhythm Instruments Specialist.

MUSIC¹
 (Keyboard Performance)
 College of Communications and
 Fine Arts
 (Bachelor of Music)

Dr. Robert Roubos, Director
 Telephone - 618-453-2263
 Altgeld Hall, Room 105

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 enrolls for and receives two half-hour lessons per week for 4 credits per term in applied music.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	3
GSB	Social Studies (select) ²	-	3
GSD 101, 117	English Composition; Expository Writing	3	2
*Mus 140	Applied Music (principal instrument)	2	2
*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>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	-
GSC	Humanities (select) ²	-	3
GSD 152,	Interpersonal Communication	2	-
GSD 107	Intermediate Algebra	-	4
GSE	Human Health and Well Being (select) ²	1	1
*Mus 240	Applied Music (principal instrument)	4	4
*Mus	Major Ensemble (see below)	1	1
*Mus 204	Advanced Aural Skills	1	-
*Mus 205	Advanced Harmony	3	-
*Mus 207	Contrapuntal Techniques	-	2
		<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.

¹Music Education is also available in the College of Education.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student. Music 102-2 and 105a-3 count toward GSC 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: Popular Music Specialist, Classical Music Specialist, Dance Band Player, Symphony Orchestra Artist, Rock Group Artist, Jazz Group Artist, Solo Performer, Music Marketing Specialist, Television Artist, Opera Artist, Folk Music Specialist, Composition Writer, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Woodwinds Instruments Specialist, Assistant to Music Director, Church Organist, Music Librarian, Music Therapist, Rhythm Instruments Specialist.

MUSIC
(Music Business)
College of Communications and
Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

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>
ECON 215	Introduction to Microeconomics ¹	-	3
GSD 101, 117	English Composition, Expository Writing	3	2
GSD	Mathematics (select) ²	-	4
GSE	Human Health and Well Being (select) ²	2	1
GSA 101	Conceptual Insights into Modern Communications Systems ³	3	-
MUS	Major Ensemble ⁴	1	1
MUS 040-240	Applied Music (principal instrument) ⁴	1	1
MUS 102	Survey of Music Literature ^{1,4}	2	1
MUS 104 a,b	Aural Skills ⁴	1	1
MUS 105 a,b	Basic Harmony ^{1,4}	3	3
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSD	Speech (select) ²	-	2 (3)
GSA 361	Acoustics of Music ⁴	3	-
ACCT 220, 230	Principles of Accounting I, II ⁴	3	3
MUS 030	Piano Class ⁴	1	1
MUS 040-240	Applied Music (Principal Instrument)	1	1
MUS 031	Voice Class	1	-
GSE	Human Health and Well Being (select) ²	-	1
MUS	Major Ensemble ⁴	1	1
GSA	Science (select) ²	3	-
GSC	Humanities (select) ²	3	3
GSB	Social Science (select) ²	-	3
		<u>16</u>	<u>15 (16)</u>

¹Approved substitutes for General Studies.

²See Section on General Studies for transfer students.

³Recommended but not required by major.

⁴Required 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, Dulcimer Manufacturer.

MUSIC¹
 (Music History-Literature)
 College of Communications and
 Fine Arts
 (Bachelor of Music)

Dr. Robert Roubos, Director
 Telephone - 618-453-2263
 Altgeld Hall, Room 105

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 in musical research and criticism and/or college teaching in these areas.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Social Studies (select) ²	-	3
GSD 101,	English Composition	3	-
GSD 107	Intermediate Algebra	-	4
GSE	Health and Physical Development (select) ²		2
*Mus 140	Applied Music (principal instrument)	2	2
*Mus 030a,b	Class Piano ³	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>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSC 152	Interpersonal Communication	-	2
GSD 117	Expository Writing	2	-
GSE	Human Health and Well Being (select) ²	1	-
*For Lang	French or German	4	4
*Mus 240	Applied Music (principal instrument)	2	2
*Mus	Major Ensemble (see below)	1	1
*Mus 204	Advanced Aural Skills	1	-
*Mus 205	Advanced Harmony	3	-
*Mus 207	Contrapuntal Techniques	-	2
*Mus 357a or b	Music History	-	3
		<u>14</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 music classes and to avoid spending additional time completing the bachelor's degree.

¹ Music Education is also available in the College of Education.

² To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student. Music 102-2, 105a-3 and the second semester of foreign language count toward GSC requirements.

³ 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: Popular Music Specialist, Classical Music Specialist, Dance Band Player, Symphony Orchestra Artist, Rock Group Artist, Jazz Group Artist, Solo Performer, Music Marketing Specialist, Television Artist, Opera Artist, Folk Music Specialist, Composition Writer, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Brass Instruments Specialist, Woodwinds Instruments Specialist, Assistant to Music Director, Church Organist, Music Librarian, Music Therapist, Rhythm Instruments 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 musical composer and/or college teacher of music theory-composition.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	-	3
GSC	Humanities (select) ²	-	2
GSD 101, 117	English Composition; Expository Writing	3	2
GSE	Human Health and Well Being (select) ²	2	-
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030a,b	Class Piano ³	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>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	-	3
GSC	Humanities (select) ²	-	3
GSD 107	Intermediate Algebra	4	-
GSE	Human Health and Well Being (select) ²	1	1
*MUS 240	Applied Music (principal instrument)	2	2
*MUS 030c,d	Class Piano ³	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
*MUS 280	Beginning Composition	2	2
		<u>14</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.

¹ Music Education is also available in the College of Education.

² To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³ 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: Popular Music Specialist, Classical Music Specialist, Dance Band Player, Symphony Orchestra Artist, Rock Group Artist, Jazz Group Artist, Solo Performer, Music Marketing Specialist, Television Artist, Opera Artist, Folk Music Specialist, Composition Writer, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Brass Instruments Specialist, Woodwinds Instruments Specialist, Assistant to Music Director, Church Organist, Music Librarian, Music Therapist, Rhythm Instruments Specialist.

MUSIC¹

(Vocal Performance)
College of Communications and
Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

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 enrolls for and receives two half-hour lessons per week for 4 credits per term in applied music.

First Year		Fall	Spring
GSD 101, 117	English Composition; Expository Writing	3	2
GSD 107	Intermediate Algebra	-	4
GSE	Human Health and Well Being (select) ²	2	1
*MUS 140P	Applied Music (voice)	2	2
*MUS 030a,b	Piano Class ³	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
		15	15
Second Year		Fall	Spring
GSA	Science (select) ²	-	3
GSE	Human Health and Well Being (select) ²	1	-
*For Lang	French or German	4	4
*MUS 240P	Applied Music (voice)	4	4
*MUS 030c,d	Class Piano ³	1	1
*MUS	Major Ensemble (see below)	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 205	Advanced Harmony	3	-
*MUS 207	Contrapuntal Techniques	-	2
		15	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.

¹Music Education is also available in the College of Education.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student. Music 102-2, 105a-3 and the second semester of foreign language count toward GSC requirements.

³Students 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, Music 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, Dance Band Player, Symphony Orchestra Artist, Rock Group Artist, Jazz Group Artist, Solo Performer, Music Marketing Specialist, Television Artist, Opera Artist, Folk Music Specialist, Composition Writer, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Brass Instruments Specialist, Woodwinds Instruments Specialist, Assistant to Music Director, Church Organist, Music Librarian, Music Therapist, Rhythm Instruments Specialist.

MUSIC EDUCATION¹

(Music Education - Instrumental or Choral)
College of Education
(Bachelor of Science)
College of Communications and Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
School of Music Telephone - 618-453-2263
Altgeld Hall, Room 105

M. Frances Giles
Coordinator of Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 108

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>
GSB	Social Science (select) ²	-	3
GSA	Science (select) ²	3	3
GSD 101 and 117, 118 or 119	English Composition and Writing	3	2
GSE 201	Healthful Living	2	-
*MUS 140	Applied Music (principal instrument)	2	2
*MUS 030a,b	Piano Class ³	1	1
*MUS	Major Ensemble (see below)	1	1
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 102	Survey of Music Literature	-	2
		<u>16</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSC	Humanities (select) ²	3	-
GSC	English elective in Humanities	-	3
GSA 361	Acoustics of Music	3	-
GSB 212, 300 or 301	American Government or U.S. History	4 (3)	-
GSB 202	Introduction to Psychology	-	3
GSD 107	Intermediate Algebra	-	4
GSD	Speech	-	2 (3)
GSE	Human Health and Well Being - Activity	2	-
*MUS 240	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
*MUS 204	Advanced Aural Skills	1	-
*MUS 034, 035	Brass Class; WW Class (for Instrumental Music)	1	2
or MUS 030a,b	Piano Class ³ (for choral Music Education)	<u>(1)</u>	<u>(1)</u>
		<u>17 (18)</u>	<u>17 (18)</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.

¹ Music education curriculums are available in both the College of Communication and Fine Arts and the College of Education.

² To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³ 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: GSB 202, Introduction to Psychology; GSB 212 or GSB 300 or 301; GSD 101; GSD 117 or 118 or 119; GSD Speech; GSE 100-114 (2 hours); GSE 201; plus one additional English course from GSC, GSD or departmental.

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.

NURSING, ASSOCIATE DEGREE

School of Technical Careers
(Associate of Applied Science
in Nursing)

Alice Hees
Program Coordinator
Telephone - 618-536-6682
STC Building, Room 18A

The Associate Degree in Nursing Program offered through the Southern Illinois Collegiate Common Market is developed as an open curriculum model and is designed to provide career mobility for persons who have completed a practical nursing program or its equivalency through formal or informal methods. Students will be given an opportunity to validate past experiences through utilization of a comprehensive testing program. After assessment by the nursing faculty, an individualized prescriptive educational program will be developed with each student.

This unique program is designed to prepare the student for the practice of nursing as defined in the Illinois Nurse Practice Act and meets the requirements for accredited schools in associate degree nursing in Illinois.

Upon satisfactory completion of the program, the student will be eligible to write the Illinois State Board Nursing Examination. The student is responsible for his or her learning and will become a registered Nurse upon successfully passing this exam.

First Year

Provide evidence of having graduated from an approved program of practical nursing or its equivalent.

Second Year

		Fall	Spring
ADN 201	Introduction to Nursing and Science	3	-
ADN 202	Maternal-Child Nursing Interventions	2	-
ADN 203	Psychiatric Nursing Interventions	-	3
ADN 204	Neurological-Sensory Nursing Interventions	-	2
ADN 206	Orthopedic Dermatological Nursing Interventions	-	3
ADN 207	Genital-Urinary Nursing Interventions	3	-
ADN 208	Metabolic-Endocrine Nursing Interventions	2	-
ADN 209	Community Health Nursing	-	2
ADN 210	Cardiovascular Nursing Interventions	-	3
ADN 211	Respiratory Nursing Interventions	-	2
ADN 214	Pediatric Nursing Interventions	3	-
*GS	General Education	6	6
		19	21

Third Term

ADN 213	Nursing Today and Tomorrow	2
**GS	General Education	3
		5

*Required General Education

GSD - 5 hours (2 areas); GSB 203-4; GSB 202-3

**To be selected by student, dependent on need or interest.

Nursing As A Major

A graduate of this program who has passed the Illinois State Board Nursing Examination will be a Registered Nurse and be able to carry out nursing and other therapeutic measures with a high degree of skill using principles from an ever expanding body of science. The licensed registered nurse performs nursing functions with patients who are under the supervisory care of a physician and assists in the planning of the day-to-day care of patients; evaluating the patient's physical and emotional reactions to therapy; taking measures to alleviate distress using treatment modalities with knowledge and precision; and supervising other workers in the technical aspects of care.

A minimum of 65 hours credit is required for the associate degree.

Representative First Job Titles: Hospital Staff Nurse, Industrial Nurse, Public Health Nurse, Private Duty Nurse, Office Nurse.

OCCUPATIONAL EDUCATION
(Occupational Teaching)
(Pre-Occupational Teaching)
(Secondary School Occupational Teaching)
College of Education
(Bachelor of Science)

M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Dr. Marcia Anderson, Chairperson
Vocational Education Studies
Telephone - 618-453-3321
Wham Building, Room 146

There are three specializations in Occupational Education, each leading to the Bachelor of Science in Education degree. Programs include specializations in pre-occupational teaching, secondary occupational teaching and occupational teaching. The specializations in pre-occupational teaching and secondary occupational teaching lead to entitlement to a Standard High School Teaching Certificate.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 101	Conceptual Insights into Modern Communication Systems	3	-
GSA 106	Chemistry for Non-Science Majors	-	3
GSB 212	Intro. to American Government and Politics ²	4	-
GSB 202	Introduction to Psychology ²	-	3
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition ²	3	-
GSD 117, 118 or 119	Writing (select) ^{1,2}	-	2
GSE 201	Healthful Living ²	-	2
GSE	Human Health and Well Being - Activity ²	1	-
ED 201	Teacher's Role in Public School Education	-	1
Elective		2	2
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Studies (select) ¹	3	-
GSC	English in Humanities (select) ^{1,2}	3	-
GSD	Mathematics (select) ¹	-	4
GSD 153	Public Speaking ²	3	-
GSE	Human Health and Well Being - Activity ²	-	1
VES 360A,B	Vocational, Occupational & Career Simulation Cluster Studies	3	3
VES 362	Vocational, Occupational & Career Orientation & Exploration	-	3
Elective		-	4
		<u>15</u>	<u>15</u>

¹ Refer to the section General Studies for the Transfer Student.

² The following courses are required for teacher certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; one additional English course (GSC, GSD or departmental).

Refer to the Undergraduate Catalog for specific major requirements.

Special Note to Community College Personnel: The programs in occupational teaching and secondary school occupational teaching require the equivalent of an associate degree in a technical specialty for admission. Therefore, the two-year recommended program above applies only to the pre-occupational teaching specialty.

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 administrator, 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.

The Program will begin accepting majors in Fall 1983.

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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	3
GSC 102 or 104	Problems in Philosophy or Moral Decision ²	-	3
GSD 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Math (select) ¹	4	-
GSE	Human Health and Well Being (select) ¹	2	2
Math or CS	Mathematics or Computer Science ³	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	-
GSC or FL	Humanities (select) ¹ or Foreign Language ⁴	3(4)	3(4)
GSC 208 or 207	Elementary Logic or Aesthetics ²	-	3 (2)
GSD	Speech (select) ¹	2(3)	-
Phil	Ancient Philosophy ⁵	3	-
Phil	Modern Philosophy ⁵	-	3
Elective ⁶		-	6
		<u>14-16</u>	<u>14-16</u>

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

²No more than 2 courses or 6 hours on the 100 and 200 level will count toward the major.

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

⁴Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁵Required course for a major in Philosophy.

⁶Elective 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, seminaries, 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

School of Technical Careers
(Associate in Applied Science)

Robert White
Program Coordinator
Telephone 618-536-6682
Blue Barracks

The Photographic Production Technology Program in the School of Technical Careers is a two-year program recognized by Photo Marketing Association International.

Technical photographic courses are designed to prepare students as photographic laboratory technicians or photo finishers in industrial and commercial photographic processing agencies. Emphasis is placed on quality black and white and color photographic processes and materials. Students will study photographic techniques in lecture/laboratory sessions and tour industrial and commercial photographic processing agencies to obtain practical understanding of commercial systems. The student should expect to invest approximately \$700 for the production of a portfolio and for the purchase of special photo chemicals and supplies. Students are to provide their own fully adjustable cameras.

The following representatives of the profession serve on an advisory committee which helps to keep the program responsive to the needs in the field. Current advisors are: Oscar Fisher, President, Oscar Fisher Company, Newburgh, N.Y.; Gary Rossman, Director of Education, Photo Marketing Association, Jackson, Mich.; Sam Fox, President, Ethol Chemical Company, Chicago, Ill.; Norbert Dompke, President, Root Photographers, Chicago, Ill.; John Bellezza, Sales Manager, Root Photographers, Chicago, Ill.; Don Beyer, Director, Photographic Services, Standard Oil, Chicago, Ill.; David Goldstein, President, D.O. Industries, Rochester, N.Y.

Students will find job opportunities throughout industry for quality technicians. Graduates are limited only by their own talent, motivation, and willingness to move to where jobs are available. Job pay is directly commensurate with the technician's ability, resourcefulness, and drive.

First Year

		<u>Fall</u>	<u>Spring</u>
GSA 106	Chemistry for Non-Science Majors	3	-
GSD 113	Introduction to Mathematics	-	2
SCR 100	Typewriting	-	2
PDT 111	Photo Processing I	4	-
PDT 113	Photo Processing II	4	-
PDT 115	Photo Equipment Operation	4	-
PDT 209	Graphics for Photography	-	4
PDT 211	Photo Processing III	-	6
		<u>15</u>	<u>14</u>

Second Year

		<u>Fall</u>	<u>Spring</u>
GSB 305	Personal Finance	-	3
GSD 101	English Composition	3	-
GSD 152	Interpersonal Communication	2	-
EDP 217	Computing for Business Administration	-	3
PDT 215	Photo Processing IV	6	-
PDT 221	Photo Processing V	6	-
PDT 251a,b	Photo Lab Management	-	12
		<u>17</u>	<u>18</u>

Photographic Production Technology As A Major

A minimum of 64 credit hours is required for the major in photographic production technology. This associate degree program can be completed in two academic years at Southern Illinois University at Carbondale or in combination with community college or other acceptable extra-institutional educational experience.

The Physical Education 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 Physical Education 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>
GSA 209	Principles of Physiology	3	-
GSB 300, 301 or 212	History of U.S. or American Government ²	-	3 (4)
GSB 202	Introduction to Psychology ²	3	-
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition ²	3	-
GSD 117, 118 or 119	Writing (select) ^{1,2}	-	2
GSD	Mathematics (select) ¹	-	4
GSE 201	Healthful Living ²	2	-
EDUC 201	Teacher's Role in Public School Education	1	-
Electives		15	3
			15 (16)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSC	English Elective in Humanities (required) ²	-	3
GSD 153	Public Speaking ²	2	-
GSE	Human Health and Well Being ²	-	2
PE	Electives	7	7
		15	15

¹ Refer to the section General Studies for Transfer Students.

² The following courses are required for teacher certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government, or GSB 300 or GSB 301, U.S. History; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical Report or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours) Physical Education activity; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

Physical Education As A Major

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, Coaching, and Dance.

PHYSICAL THERAPIST ASSISTANT
School of Technical Careers
(Associate in Applied Science)

Ted Okita, Program Coordinator
Telephone -618-453-2361
Wham Education Bldg., Rm. 141

Students should note application deadlines and procedures explained under admission requirements in this text. 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, 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.

A minimum of 70 credit hours is required for the associate degree.

First Year		Fall	Spring
GSA 106	Chemistry for Non-Science Majors	3	-
Zool 118	Introductory Zoology	4	-
GSA 208	Physiology Laboratory	-	1
GSA 209	Principles of Physiology	-	3
GSB 202	Introduction to Psychology	-	3
GSD 101	English Composition	3	-
GSD 152	Interpersonal Communication	-	2
PTH 100	Physical Therapy Orientation	2	-
PTH 113	Therapeutic Modalities I (8 weeks)	1.5	-
PTH 207	Massage (8 weeks)	1.5	-
PHSL 300	Human Anatomy	-	3
PTH 202	Physical Rehabilitation Techniques	-	2
PTH 204	Practicum I	-	2
		15	16
Second Year		Fall	Spring
GSA 101	Insights into Modern Communications Systems	3	-
HED 334	Standard First Aid	3	-
PE 302	Kinesiology of Normal & Pathological Conditions	2	-
Psyc 301, 303, 304 or 305	Psychology	-	3
PTH 203	Pathology	1	-
PTH 205	Physical Therapy Science	-	2
PTH 208, 209	Therapeutic Exercise I & II	3	3
PTH 213	Therapeutic Modalities II	2	-
PTH 214	Practicum II	-	3
PE 320	Physiological Bases of Human Movement	-	3
PE 325 or 326	Training Room Techniques or Emergency Care & Prevention	-	2
		14	16
		Summer	
PTH 321a,b	Clinical Internship	8	
PTH 322	Clinical Seminar	2	
		10	

Physical Therapist Assistant As A Major

The student should expect to spend approximately \$100 for uniforms and insurance.

The graduate under the supervision of the registered physical therapist will be able to administer such physical therapy techniques as: infra-red and ultra-violet light whirlpool baths, hot moist packs, diathermy, ultra-sound paraffin baths, massage, therapeutic exercise, gait training, and other activities of daily living and assist in record keeping and general physical therapy housekeeping.

In addition to the physical therapy activities, the physical therapist assistant will assist the registered physical therapist in more complex procedures such as: administering manual muscle tests, electrical muscle stimulation, and other diagnostic tests. He or she also observes, records and reports to the supervisor conditions, reactions, and responses related to his or her assigned duties.

Before graduation, the student will serve an internship of 12 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>
GSB	Social Studies (select) ²	3	-
GSC	Humanities (select) ²	-	3
GSD 153	Public Speaking	-	3
GSD 101	English Composition	3	-
GSE 201	Healthful Living	2	-
GSD 117, 118 or 119	Writing (select)	-	2
MATH 111	College Algebra and Trigonometry ³	5	-
MATH 150	Calculus I	-	5
PHYS 205a & 255a	University Physics and Lab ^{4,6}	-	4
GSB 212, 300, or 301	American Government or U.S. History	4 (3) 17 (16)	- 17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	3
GSB 202	Introduction to Psychology	3	-
GSC	English, Elective in Humanities (select) ²	3	-
GSC	Humanities (select) ²	-	3
GSE	Human Health and Well Being (select) ²	-	2
MATH 250	Calculus II	4	-
CHEM 224, 225	Introduction to Chemical Principles & Lab ^{4,5}	-	7
PHYS 205b, 255b	University Physics & Lab ^{4,6}	4	-
EDUC 201	Teacher's Role in Public School Education	-	1
		17	16

¹See also the program (B.S.) under the College of Science.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³Math III substitutes for GSD Mathematics.

⁴These courses count towards the GSA science requirement.

⁵These 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 224.

⁶Entering freshmen who qualify to begin with Math 110b or higher may take Phys 204a,b (College Physics-Honors) and Phys 254a,b (College Physics Laboratory-Honors) during the first year. In the fall semester of the second year they may take Phys 205c-3, an Introduction to Modern Physics with Laboratory.

Physics As A Major

The following specific General Studies courses are required for teacher certification (these courses may be completed during the freshman and sophomore years): GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118, or 119, Expository, Technical or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

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 coverages in the applications of physical principles to neighboring 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 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 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>
GSB	Social Studies (select) ²	3	-
GSC	Humanities (select) ²	-	2
GSD	Speech	-	2 (3)
GSD 101	English Composition	3	-
GSE	Human Health and Well Being (select) ²	1	-
*FL	Foreign Language ^{3,4}	4	4
*MATH 111	College Algebra and Trigonometry ⁴	5	-
*MATH 150	Calculus I ⁴	-	5
*PHYS 205a	University Physics and Lab ^{3,4}	-	4
		<u>16</u>	<u>17 (18)</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
BIOL	Biological Sciences (not GSA) ^{2,3,4}	3	3
GSB 211	Contemporary Economics	3	-
GSC	Humanities (select) ²	3	-
GSE	Human Health and Well Being (select) ²	-	1
*MATH 250	Calculus II	4	-
*CHEM 224, 225	Introduction to Chemical Principles and Lab ^{3,4,5}	-	7
*PHYS 205b, 255b	University Physics and Lab ^{3,4}	4	-
*PHYS 205c	University Physics	-	3
*PHYS 301	Theoretical Methods in Physics	-	2
		<u>17</u>	<u>16</u>

*Required courses for a major in Physics.

¹ See also the program (B.S.) under the College of Education.

² To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³ Approved substitutes for General Studies.

⁴ 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.

⁵ 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 224.

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.

Representative First Job Titles: Physicist, Acoustics Physicist, Design Physicist, Electricity and Magnetism Physicist, Light Physicist, Quality Control Physicist, Research Physicist, Aerodynamics Scientist, Applied Physics Researcher, Astrophysicist, Atomic and Molecular Physicist, Biophysicist, Geophysicist, Factory Insurance Representative, Thermodynamics Physicist, Optics Physicist, Manufacturer's Representative, Mechanics Physicist, Nuclear Physicist, Plasma Physicist, Product Studies and Testing Physicist, Solid-State Physicist, Physical Metallurgy Scientist.

Physiology involves studying the functioning of organisms during life and how life processes operate. Courses include pharmacology, electron microscopy, physiological techniques, and anatomy. Although a bachelor's degree with such a major is adequate preparation for some jobs, graduate training is usually required to obtain professional recognition. Colleges and universities provide the greatest job opportunities. Government agencies are the second largest employers of physiologists.

First Year		Fall	Spring
GSB	Social Studies (select) ¹	-	3
GSC	Humanities (select) ¹	-	3
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
FL	(select) ^{2,3}	4	4
CHEM 222a,b or CHEM 224, 225	Introduction to Chemical Principles ^{2,3}	4 (7)	4 (-)
MATH 110a,b or MATH 111	College Algebra and Trigonometry ^{2,3}	3 (5)	2
		-	-
		14-19	14 (18)
Second Year		Fall	Spring
GS	Area B,C (select) ¹	2	3
BIOL	Select Two From Biology 305, 307, 308, 309 ^{2,3}	3	3
PHYS 203a,b & 253a,b	University Physics and Lab ²	4	4
CHEM 344	Organic Chemistry	4	-
CHEM 345	Lab Techniques	2	-
CHEM 346	Organic Chemistry	-	2
CHEM 347	Lab Techniques	-	3
		15	15

¹ Refer to section General Studies for the Transfer Student.

² Approved substitutes for General Studies.

³ 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

Students fulfill remaining General Studies requirements and select physiology courses according to professional interests and remaining departmental requirements.

Physiology As A Major

In addition to adequate equipment for all routine work, the following facilities are available to our graduate students: An RCA and a Hitachi electron microscope as well as a shadowcaster, photographic equipment, knifebreaker, and ultramicrotome; isotopic equipment including scalers and monitors; fully equipped animal room, 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.

Representative First Job Titles: Physiologist, Pharmacologist, Ecologist, Biological Photography Staff, Biostatistician, Biological Warfare Personnel, Aquatic Biologist, Bioastronautician, Astrobiologist, Physiological Researcher, Genetics Researcher, Manufacturer's Representative, Pathologist, Physical Anthropologist, Technical Writer, Plant Physiologist.

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 School of Agriculture and the University. Opportunities for individual program development may be realized through work experience, internships, special studies, 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>
CHEM 140 A	Chemistry ¹	-	4
BOTANY 200,201	General Botany and Lab ¹	4	-
GSB 202	Introduction to Psychology	3	-
ABE 204	Introduction to Agricultural Economics ¹	-	3
GSC	Humanities (select)	3	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
GSE	Human Health and Well Being	2	2
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	2	-
GSB	Social Studies (select)	3	-
GSC	Humanities (select)	-	3
GSD 107	Intermediate Algebra	4	-
GSD 153	Public Speaking	-	3
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
GSA or B or C elective		-	3
ACCT 210	Accounting Principles and Control	-	3
CHEM 140b	Survey of Chemistry	4	-
		<u>16</u>	<u>16</u>

¹Substitutes for General Studies 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 7 hours from two other departments in the School of Agriculture. Of the 28 required hours in Plant and Soil Science, at least 15 hours must be at the 300- and 400-level, with no less than 9 hours at the 400-level. In addition, the student must take either Marketing 304 or ABE 360, Ad Sc 301, 7 hours of business electives, and Botany 320. The student may select courses within the University for 8 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>
BOTANY 200,201	General Botany and Lab ¹	4	-
CHEM 224, 225	Intro. to Chem. Prin. and Lab ¹	-	7
GSB 220	Survival of Man	3	-
ECON 214	Intro. to Macroeconomics ¹	-	3
GSC 221	Survival of Man	-	3
GSC	Humanities (select)	3	-
GSD 101	English Composition	3	-
GSD 118	Technical Report Writing	-	2
GSE	Human Health and Well Being (select)	2	-
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 330	Weather	-	3
GSB 212	Intro. to American Government & Politics	4	-
GSC	Humanities (select)	-	3
GSD 107	Intermediate Algebra	4	-
GSD 153	Public Speaking	-	3
GSA, B or C	Elective	3	-
GSE	Human Health and Well Being (select)	2	-
AG 333	Agr. & Forestry Env. Problems	-	3
ECON 215	Introduction to Microeconomics	3	-
PLSS 220	General Horticulture	-	3
		<u>16</u>	<u>15</u>

¹Substitutes for General Studies 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: Anl 455-2, Agri 401-3, and 440-3; Bot 320-4; Econ 333-3, PLSS 200-3, 240-4, 381-1, 419-3, 420-4, 441-3, 447-3, and 468-3, PolS 325-3 and 340-3; and TEE 314-4. In addition, the student may select courses within the University for 3 hours of outside electives, and 9 hours of electives in the School 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 School of Agriculture and the University. Opportunities for individual program development may be realized through work experience, internships, special studies, 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>
CHEM 140A	Chemistry ¹	-	4
BOTANY 200,201	General Botany and Lab ¹	4	-
GSB	Social Studies (select)	3	-
ABE 204	Agricultural Economics ¹	-	3
GSC	Humanities (select)	3	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
GSE	Human Health and Well Being (select)	2	2
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	2	-
GSB	Social Studies (select)	3	-
GSC	Humanities (select)	-	3
GSD 107	Intermediate Algebra	4	-
GSD 153	Public Speaking	-	3
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
GSA or B or C	Elective	-	3
CHEM 140b	Chemistry	4	-
PLSS elective		-	3
		<u>16</u>	<u>16</u>

¹Substitutes for General Studies requirements.

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, 6 hours from two other departments in the School of Agriculture and Botany 320-4. Of the 28 required hours in Plant and Soil Science, at least 15 hours must be at the 300- and 400-level with no less than 9 hours at the 400-level. In addition, the student may select courses within the university for 19 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 per-manent 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.

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>
CHEM 140 A	Chemistry ¹	-	4
BOTANY 200,201	General Botany and Lab ¹	4	-
GSB 202	Introduction to Psychology	3	-
ABE 204	Agricultural Economics ¹	-	3
GSC	Humanities (select)	3	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
GSE	Human Health and Well Being (select)	2	2
PLSS 220	Principles of Field Crop Production	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select)	-	2
GSB	Social Studies (select)	3	-
GSC	Humanities (select)	-	3
GSD 107	Intermediate Algebra	4	-
GSD 153	Public Speaking	-	3
PLSS 240	Soil Science	-	4
GSA, B, or C	Elective	3	-
AdSc 301	Management and Supervision	-	3
PLSS 200	Principles of Field Crop Production	-	3
AGEM 376	Applied Graphics	2	-
CHEM 140b	Chemistry	<u>4</u>	<u>-</u>
		<u>16</u>	<u>18</u>

¹Substitutes for General Studies 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: Biol 307-3, Bot 320-4, 456-4 or 457-3, Geog 470a-3, PLSS 322-3, PLSS 327-3; 328a, b-2,2; 381-1, 420-4, 428a, b-33, 432-4 or 434-3, and ZOOL 316-3. In addition, the student may select courses within the University for 4-6 hours of outside electives, and 10 hours of electives in the School 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)

School of Agriculture

(Bachelor of Science)

Dr. Gerald D. Coorts, Chairperson

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 School of Agriculture and the University. Opportunities for individual program development may be realized through work experience, internships, special studies, 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>
GSA 101	Insights Mod. Comm. Systems	-	3
BOTANY 200,201	General Botany and Lab ¹	4	-
CHEM 222a	Intro. to Chemical Principles ¹	4	-
ABE 204	Agricultural Economics ¹	-	3
GSC	Humanities (select)	3	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
GSE	Human Health and Well Being (select)	2	2
PLSS 200	Principles of Field Crop Production	-	3
		<u>16</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Social Studies (select)	3	3
GSC	Humanities (select)	3	-
MATH 110 or 111	College Algebra and Trigonometry ¹	5	-
GSA or B or C	Elective	3	-
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
CHEM 222b	Intro. to Chemical Principles	-	4
AG electives		-	2
GSD 153	Public Speaking	-	3
		<u>17</u>	<u>16</u>

¹Substitutes for General Studies 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 6 hours from two other departments in the School of Agriculture. Of the 28 required hours in Plant and Soil Science, at least 15 hours must be at the 300- and 400-level with no less than 9 hours at the 400-level. In addition, the student must take Botany 320, Chem 340 and 341 and 10 hours of courses in mathematics, physical sciences, or biological sciences. The student may select courses within the University for 7 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.

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 2.0 is required. Furthermore, at least three courses must be taken at the 400 level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	-
GSB 202	Introduction to Psychology	-	3
GSB 211 ³	Contemporary Economics	-	3
GSB 212	Intro. to American Government & Politics	4	-
GSC	Humanities (select) ²	3	3
GSD 101	English Composition	3	-
GSD 117, 118			
or 119	Writing (select) ²	-	2
GSE	Human Health and Well Being ²	2	-
GSD	Mathematics (select) ²	-	4
ED 201	Teacher's Role in Public School Education	-	1
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ²	3	3
GSC	English Elective in Humanities	3	-
GSB 300 or 301	American History ³	-	3
GSB 250	Intro. Comparative Government & Politics ³	3	-
GSE 201	Healthful Living	-	2
GSD 153	Public Speaking	3	-
Elective ^{2,4}		<u>4</u>	<u>8</u>
		<u>16</u>	<u>16</u>

¹See also the program under the College of Liberal Arts.

²To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the section, General Studies for the Transfer Student.

³Recommended but not required.

⁴Elective 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 Studies courses are required for teacher certification. (These courses may be completed during the freshman and sophomore years.): GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

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 thirty-four 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 15 of the required 34 hours must be earned at SIUC.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	3
GSB 212	Intro. to American Government & Politics ²	-	4
GSC	Humanities (select) ¹	3	3
GSD 101 & 117			
or 118 or 119	English Composition and Writing (select) ¹	3	2
GSE	Human Health and Well Being (select) ¹	2	-
GSD	Math (select) ¹	-	4
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSC or FL	Humanities (select) ¹ or Foreign Language ³	3 (4)	3 (4)
GSB 270	Intro. to International Relations ⁵	-	3
GSE	Human Health and Well Being (select) ¹	-	2
GSD	Speech (select) ¹	2 (3)	-
MATH or CS	Mathematics or Computer Science ⁴	3	-
Elective ⁶		3	3
		<u>14-16</u>	<u>14-15</u>

*See also the program under the College of Education.

¹See General Studies for the Transfer Student.

²Required by the major.

³Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁴One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁵Recommended but not required.

⁶Elective 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 study of political science is concerned with predicting, explaining, and evaluating the political behavior, beliefs, laws, and organizational arrangements of people in a variety of settings.

A major in Political Science provides rigorous social science training. A variety of courses afford a student an opportunity to study individual and group behavior; political, administrative, and judicial processes; comparative national and subnational governmental systems; intergovernmental relations and conflict resolutions; and normative and empirical political theory. Students interested in the public sector will find discussions of such topics as voting behavior, American foreign policy, and the decisions and opinions of Supreme Court justices to be challenging experiences. The department offers a full range of coursework taught by specialists in each subfield. The department has also developed a significant visibility for its research contributions over the past few years.

Students are encouraged to pursue a diversified curriculum. Those interested in foreign affairs should stress a foreign language. The political science student should be aware that mathematics and statistics are increasingly important in the study of the social sciences, including political science. The ability to write lucid English prose is also essential. Students considering concentrating in political science should seek advice about planning their college programs from the department of political science faculty.

Representative First Job Titles: American Government Studies Officer, Sales Agent, Censoring Officer, Community Relations Officer, Comparative Gov't Studies Officer, Constitutional Legal Aide, Probation and Parole Office, Customs Port Investigator, Foreign Aide Studies Officer, Gov't Policy Position Analyst, Labor Relations Officer, Manpower Planning Officer, Manpower Resources Studies Officer, FBI Agent, Operations Research Analyst, Legislative Aide, Political Systems Researcher, Political Theory & Philosophy Studies Officer, Budget Analyst, Public Opinion Polls Officer, Public Relations Officer, Claims Authorizer, Systems Evaluator, Import Analyst.

The SIUC pre-dental program meets the general requirements of all United States dental schools. It is designed by the Pre-dental Advisory 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>
GSB	Social Studies (select)	3	3
GSC	Humanities	-	3
GSD I01	English Composition	3	-
GSD I17 or I18	Expository or Technical Report Writing	-	2
GSE	Human Health and Well Being	2	1-2
MATH 110a, b	College Algebra and Trigonometry	3	2
ZOOL 118,220b ¹	Intro. Zoology & Vertebrate Zoology	4	4
		15	15-16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology	3	-
GSD I52 or I53	Interpersonal Communication or Public Speaking	2-3	-
CHEM 222a,b ²	Introduction to Chemical Principles	4	4
PHYS 203a, b	College Physics	3	3
PHYS 253a, b	College Physics Laboratory	1	1
GSC	Humanities (select)	3	3
ENG 290 ³	Intermediate Expository Writing or other	-	3
		16-17	14

¹Community college students may substitute general biology if the course is intended for science majors.

²Students 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.

³Dental applicants must have 6 hours credit in courses taught by the Department of English in writing or literature courses; speech does not substitute.

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 interdisciplinary practice, focusing on the medical and social aspects of dental health, stressing preventive dental care, and becoming involved in community health care delivery as well as the traditional private practice.

The Association of American Law Schools and the Southern Illinois University School of Law follow the policy that the effectiveness of prelegal study cannot be advanced by prescribing courses of study or extracurricular activities. Instead, primary emphasis is directed toward the development in pre-law students of 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. 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.

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 Studies 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 AND PRE-OSTEOPATHY

Pre-professional
(Select Academic Unit)

Patricia Sims
Health Professions Information Office
Telephone - 618-536-2147
Neckers A-189

At SIUC the pre-medical program is guided by the Pre-medical Advisory 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>
GSB	Social Studies (select)	3	3
GSC	Humanities (select)	-	3
GSD 101	English Composition	3	-
GSD 117 or 118	Expository or Technical Report Writing	-	2
GSD 112	Statistics (or select from math recommendations)	-	2
GSE	Human Health and Well-Being (select)	1	1
MATH 111	College Algebra-Trigonometry	5	-
ZOOL 118,220b ¹	Intro Zoology & Vertebrate Zoology	4	4
		16	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology	3	-
GSC	Humanities (select)	3	-
GSD 152 or 153	Interpersonal Communication or Public Speaking	2-3	-
CHEM 222a,b ²	Introduction to Chemical Principles	4	4
ENG 290	Intermediate Expository Writing	-	3
Electives ³		4	9
		16-17	16

¹Community college students may substitute a year of general biology if the course is intended for science majors.

²Students lacking high school chemistry must take Chem 115 prior to Chem 222.

³Community 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 Pre-medical Advisory 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)
General Academic Programs

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 Studies and nursing prerequisites 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>
GSB 104	The Human Experience - Anthropology	3	-
GSC 104	Moral Decision	-	3
GSD 101	English Composition	3	-
GSD 117	Expository Writing	-	2
GSD 107	Intermediate Algebra	4	-
GSD 152 or 153	Interpersonal Communications or Public Speaking	2 (3)	-
Chem 140a,b	Chemistry (inorganic, organic, and biochemistry)	4	4
Phsl 301	Survey of Human Anatomy	-	4
GSB 202	Introduction to Psychology	-	3
		<u>16 (17)</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
Psyc 305	Psychology of Personality	3	-
Micro 301	Principles of Microbiology	4	-
GSB 203	The Sociological Perspective	4	-
GSC	Select	3	6
Hed 311	Human Growth and Development	3	-
GSA 208, 209	Principles of Physiology & Lab	-	4
GSC 208	Elementary Logic	-	3
SOC 340	Family	-	4
		<u>17</u>	<u>17</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 3 semesters at SIUC, it takes at least 8 quarters to complete the baccalaureate nursing program at 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 (on a 4-point scale) will be considered admissible up to the limit of available space.

Constitution requirement is still in force at Edwardsville.

Students who take GSB 104, GSB 202, and GSB 203 will be considered as having fulfilled the Social Studies requirements for the General Studies program at SIUE.

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 math and science requirements until the third and fourth years.

<u>First Year</u> ¹		<u>Fall</u>	<u>Spring</u>
GSB	Social Studies (select)	-	3
GSC	Humanities (select)	3	-
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Writing (select)	-	2
CHEM 222a,b ²	Introduction to Chemical Principles	4	4
MATH 110a,b	College Algebra and Trigonometry	3	2
ZOOL 118, 220b ³	Intro. Zoology & Vertebrate Zoology	4	4
		<u>17</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 202	Introduction to Psychology	3	-
CHEM 340, 341 ⁴	Survey of Organic Chemistry & Lab	6	-
GSD or Math ⁵	Statistics	2-3	-
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
PSYCH	(select) (Child Psychology recommended)	-	3
Math 150	Calculus I (with analytic geometry)	-	4
Micr 301	Principles of Microbiology	-	4
		<u>15-16</u>	<u>15</u>

¹ See information above concerning course selection.

² Students lacking high school chemistry must begin with Chem 115.

³ Community college students may substitute general biology if it is a course for science majors and if it includes 3-4 hours per week in laboratory.

⁴ Students working toward a science degree must take the organic chemistry course required by that major.

⁵ Any statistics course taught by business, mathematics, or psychology departments is acceptable. A three hour course is required by some schools.

Third and Fourth Years

No degree is given in pre-optometry. Students may choose any major at SIUC, but additional science and mathematics courses may enhance probabilities of being accepted by the optometry school. If students are accepted prior to earning a bachelor's degree, they have the option of acquiring that degree by taking certain extra requirements of the professional school or of bypassing the bachelor's degree and earning the doctor of optometry (O.D.) degree only.

On request, the Pre-medical Advisory Committee will evaluate optometry candidates and forward composite recommendations supporting their applications to optometry schools. Details of this procedure and other relevant information are available from the Health Professions Information Office.

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. It is estimated that 20,000 newly trained optometrists will be needed by 1990.

Students can achieve excellent preparation for pharmacy school by taking their first year at SIUC, and applying for admission to a pharmacy school in the second (first professional) year of the five year program. Admission to the pharmacy school becomes more difficult when the student is seeking admission as a third year student. The guide below includes courses required for transfer to St. Louis College of Pharmacy or University of Illinois College of Pharmacy. Students should be in direct contact with preferred professional schools for current information.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 203 ¹	The Sociological Perspective	-	4
GSC ¹	Literature course (select)	-	3
GSD 101	English Composition	3	-
GSD 117 or 118 ²	Expository or Technical Report Writing	-	2
CHEM 222a,b	Introduction to Chemical Principles	4	4
ZOOL 118 ³	Introductory Zoology	-	4
BOT 200 and 201 ³	General Botany and Lab	4	-
MATH 111	College Algebra and Trigonometry	5	-
		<u>16</u>	<u>17</u>

(Students who wish to apply to both pharmacy schools may need to enroll in additional courses during the summer term to avoid overloads during regular semesters.)

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 212 ¹	Intro. to American Government and Politics	-	4
GSB 202	Introduction to Psychology	-	3
CHEM 344, 346	Organic Chemistry	4	2
CHEM 345, 347	Laboratory Techniques	2	3
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
MATH 140 ² or	Short Course in Calculus or	4	-
MATH 282 ¹	Introduction to Statistics	(3)	
PHSL 301 ²	Human Anatomy (with lab)	-	4
MICR 301 ¹	Principles of Microbiology	4	-
		<u>18 (17)</u>	<u>19</u>

¹Requirement of St. Louis.

²Requirement of University of Illinois.

³Substitute 8 hours of general biology with laboratory, if available, for zoology and botany courses. NOTE: If pre-pharmacy students plan to spend a second year at SIUC, they must be in touch with a pharmacy school to ascertain current requirements and admission procedures. In addition, the students will probably be required to attend a summer session at the professional school to pick up specialized courses normally taught there in the second year. Information concerning other pharmacy schools is available from the Health Professions Information Office.

Third, Fourth and Fifth Years

Students must spend a minimum of three years in the professional school. The degree earned is a Bachelor of Science in Pharmacy. Most states require twelve months of practical experience under the supervision of a registered pharmacist before granting a license. Some of this experience may be accumulated during summer vacations.

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
(select academic unit)

Patricia Sims
Health Professions Information Office
Telephone - 618-536-2147
Neckers A-189

SIUC offers courses to meet the requirements of any physical therapy school. The curriculum suggested below includes minimum requirements of all four 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. Applications 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>
GSB 202	Introduction to Psychology	-	3
GSC	Humanities (select)	3	-
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Select from Expository, Technical, or Creative Writing	-	2
GSE	Health and Physical Development (select)	1	1
CHEM 222a,b	Introduction to Chemical Principles	4	4
MATH 110a,b	Algebra-Trigonometry	3	2
ZOOL 118	Introduction to Zoology	-	4
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 208, 209 or PHSL 210	Principles of Physiology	4 (5)	-
GSB 203	Sociological Perspective	-	4
GSC	Humanities (select)	-	3
GSD 152 or 153	Interpersonal Communication or Public Speaking	2 (3)	-
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 (Vert.)	-	4
		<u>16 (18)</u>	<u>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 (GSA 302), Psychology of Maturity and Old Age (PSYC 304), 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

Students who complete training at Northwestern University will remain at SIUC for a third year as admission there requires a minimum of 90 semester hours. During the third year students should work toward requirements for a degree in an SIUC program inasmuch as they will not know whether their applications are successful until late in the year. If admitted, the professional training at Northwestern is completed in 16 consecutive months.

Students who complete training in any of the other three Illinois PT programs will spend two academic years in the professional school. Admission requires a minimum of 60 semester hours plus physical education hours. A baccalaureate degree in physical therapy is awarded by the professional schools.

STUDENTS WHO DECIDE TO REMAIN AT SIUC FOR A BACCALAUREATE DEGREE MUST CONSULT AN ACADEMIC ADVISOR IMMEDIATELY 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.

PRE-VETERINARY MEDICINE

Pre-professional
(Select Academic Unit)

Patricia Sims, Advisor
Health Professions Information Office
Telephone - 618-536-2147
Neckers A-189

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 may be chosen in either the School of Agriculture or the College of Science.

<u>First Year</u>	<u>Fall</u>	<u>Spring</u>
GSB	Social Studies (select)	- 3
GSD 101	English Composition	3 -
GSD 117, 118 or 119	Writing (select)	- 2
GSE	Human Health and Well Being (select)	1 1
Bot 200, 201 ¹	General Botany and Laboratory	- 4
Math 110a,b	College Algebra and Trigonometry	3 2
Zool 118 ¹	Introductory Zoology	4 -
GSC	Humanities (select)	- 3
ANI 121	Science of Animals	3 -
ANI 122	Production and Processing Practices	1 -
	15	15

<u>Second Year</u>	<u>Fall</u>	<u>Spring</u>
GSD 152 or 153	Interpersonal Communication or Public Speaking	2 (3) -
GSB	Social Studies (select)	3 3
GSC	Humanities (select)	3 -
GSE	Human Health and Well Being	1 1
Phys 203a,b	College Physics	3 3
Phys 253a,b	College Physics Laboratory	1 1
Biol 305	Genetics-Classical and Molecular	- 3
Chem 222a,b	Introduction to Chemical Principles	4 4
	17-18	15

¹Community 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, Genetics, 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 industries and complete its requirements simultaneously with the admission requirements of the veterinary school. Admission is extremely 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 effectively limited to applying to the University of Illinois because other veterinary schools accept residents of their own states or of states having no veterinary school. Competition for available spaces in the professional schools exceeds that for human medical training. With the diversity of offerings at SIUC, however, 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 ten psychology courses including GSB 202 for a total of 31-33 hours. Finite mathematics is also required. See the Undergraduate Catalog for the specific psychology requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	-	3
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Writing (select) ¹	-	2
GSD 107	Intermediate Algebra	4	-
GSE	Human Health and Well Being (select) ¹	2	2
Math 139	Finite Mathematics ²	-	3
Elective ³		3	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB 202	Introduction to Psychology	3	-
GSB	Social Science (select) ¹	-	3
GSC or FL	Humanities (select) ¹ or Foreign Language ⁴	3(4)	3(4)
GSD	Speech (select) ¹	2(3)	-
Psyc	Psychology Elective	-	3
Elective ³		3	6
		<u>14(16)</u>	<u>15(16)</u>

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

²Besides being a required course for a major in Psychology, Math 139 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).

³Elective 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).

⁴Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

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 Behavior Studies Psychologist, Child Placement Studies Psychologist, Child Care Worker, Group Interaction Studies Technician, Group Supervisor or Facilitator, Sales Agent, Mental Deficiency Studies Psychologist, Morale Studies Psychologist (Assistant), Senior Citizens Center (Director), Urban Development (Investigator), Prisoner Classification Interviewer, Probation & Parole Incharge, Public Information Personnel, Public Opinion Polls Officer, Public Relations Personnel, Rehabilitation & Resettlement Personnel, Claims Authorizer, Social Insurance Researcher, Production Supervision, Drug Abuse Counselor, Population Studies Psychologist, Mental Health Clinic Technician.

RADIO-TELEVISION

College of Communications and
Fine Arts
(Bachelor of Science)

Dr. Sam Swan, Chairperson
Telephone - 618-453-4343
Communications Building, Rm 1056

A major in Radio-Television may be pursued through the College of Communications and Fine Arts. Such a program leads to the Bachelor of Science 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. Student are encouraged to focus their studies in one of three specializations: 1) Broadcast News, 2) Broadcast Production, or 3) Broadcast Sales and Management.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA 101	Conceptual Insights into Modern Communication Systems	3	-
GSA	Science (select) ¹	-	3
GSB	Mass Communication and Society	3	-
GSB	Social Studies (select) ¹	-	3
GSC	Humanities (select) ¹	3	3
*GSD 101, and 117 or 119	English Composition ² & Expository or Creative Writing ²	3	2
GSD 152	Interpersonal Communication	2	-
GSD 153	Public Speaking	-	3
GSE	Human Health and Well Being (select) ¹	2	1
		16	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Studies (select) ¹	-	3
GSC	Humanities (select) ¹	3	-
GSD 107, or 110 or 112	Intermediate Algebra or Statistics	-	2-4
GSE	Human Health and Well Being (select) ¹	1	-
*R&T 300m	Intro. to Broadcast Writing, Performance, and Production ³	4	-
*R&T 300p	History and Foundations of Broadcasting ³	-	4
Elective	Advanced Courses beyond GS level	4	6
		15	15-17

*Required courses for a major in Radio-Television.

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

²Each student in Radio and Television must complete GSD 101 and 117 or 119 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.

³Radio-Television 300m and 300p are required of all majors and must each be passed with a grade of "C" or better before students may take advanced courses in the department.

Radio-Television as A Major

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 GS level. Students should consult with their academic advisor for specific recommendations.

The Department of Radio-Television uses direct advisement of all new transfer, and continuing students.

The major in Radio-Television consists of 32 hours minimum in Radio-TV coursework. Of those, 17 hours are required of all major: RT 300M, RT 300P, RT 308, RT 340, 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.

Representative First Job Titles: Producer, Director, Sales Representative, News Writer, Copywriter, News Reporter, Newscaster, Announcers, Program Director, Sales Manager, Researcher, Community Affairs Director.

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 course of study involves mastering the ability to control radiation production and the ability to position the body properly in order to obtain radiographs of the required anatomical structure.

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.

To be accepted into the radiologic technology degree program the student must have completed the requirements for the Allied Health Careers Specialties program. These 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.

The courses can be completed in two summer sessions and two regular semesters. The summer sessions and the regular semester sessions will utilize both classroom and clinical education learning experiences, along with elective courses.

Requirements for Major in Respiratory Therapy

Completion of Allied Health Careers Specialties degree program	65
Radiologic Technology Advanced Courses (AHC designated)	30
Electives	6
	88

SEE ALLIED HEALTH CAREERS SPECIALTIES

RECREATION

(Park and Community Recreation)
(Therapeutic Recreation)
(Outdoor Recreation)
(Commercial Recreation Management)
College of Education
(Bachelor of Science)

Dr. William O'Brien, Chairperson
Telephone - 618-453-4331
College View Dorm, 408 W. Mill, Room 21

M. Frances Giles, Coordinator
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>
*GSA 312	Conservation of Natural Resources	-	3
GSA	Science (select) ^{1,3}	3	-
*GSB 203	The Sociological Perspective	4	-
GSB 202	Introduction to Psychology	-	3
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition	3	-
GSD 117, 118,			
or 119	Writing (select) ¹	-	2
GSE	Human Health and Well Being (select) ¹	1	1
**REC 300	Introduction to Leisure and Recreation	3	-
**REC 302	Recreation Program Leadership	-	3
		<u>17</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*GSA 240	Ecology	3	-
*GSA 303	Ferns, Trees and Wildflowers	-	3
*GSB 321	Socialization of the Individual	3	-
GSC	Humanities (select) ¹ (additional English required)	3	-
*GSD 110	Economic and Business Statistics ²	2	-
GSD	Math (select) ¹	4	-
GSD 152 or 153	Interpersonal Communication or Public Speaking	-	2 (3)
GSE	Human Health and Well Being (select) ¹	1	1
**REC 305	Recreation Programming and Leadership	-	3
**HED 334	Standard First Aid	-	2
REC	Elective	-	3
		<u>16</u>	<u>14 (15)</u>

¹Refer to section General Studies for the Transfer Student. See also the Undergraduate Catalog for specific departmental requirements.

²Students must take GSD 110 or Sociology 308: Statistics for Social Science.

³Therapeutic Recreation specialization requires GSA 209, Principles of Physiology.

*Recommended, not required.

**Departmental requirements.

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.

Religious studies is an interdisciplinary field concerned with the nature of religious belief and action. Courses are offered on various traditions, including Primitive, Eastern, and Western. The emphasis is on understanding the role of religion in modern life. The Religious Studies Department does not promote any one religion; rather it provides neutral territory in which to pursue a critical and sympathetic study of religion.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	3
GSC or FL	Humanities (select) ¹ or Foreign Language ²	3 (4)3 (4)	
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		14-15	14-15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSC 216	Types of Eastern Religion ³	3	-
GSC 217	Types of Western Religion ³	-	3
GSC	Humanities (select) ¹	-	3
GSD	Speech (select) ¹	2 (3)	-
Math or CS	Mathematics or Computer Science ⁴	-	3
Elective ⁵		<u>4</u>	<u>3</u>
		15 (16)	15

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

²Two 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead. Greek or Hebrew is recommended.

³Either or both these courses may be taken in the freshman year. They are introductory but not required by the major.

⁴One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

⁵Elective 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 either GSC 216 or 217 or both, plus one elective before the end of the Sophomore year; and (b) to confer with the Director of Undergraduate Studies, Faner 3042. 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, Program Director, Editor, Counselor, Journalist.

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 on 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 Therapy.

To be accepted into the respiratory therapy degree program the student must have completed the requirements for the Allied Health Careers Specialties program. These advanced respiratory therapy 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 Respiratory Therapy.

The courses can be completed in one summer session and one regular semester. The summer session will involve a clinical rotation in health facilities that specialize in advanced respiratory therapy care procedures, while the regular semester will utilize both classroom and clinical education learning experience.

Requirements for Major in Respiratory Therapy

Completion of Allied Health Careers Specialties degree program	65
Respiratory Therapy Advanced Courses (AHC designated)	23
	88

SEE ALLIED HEALTH CAREERS SPECIALTIES

Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, 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 wishing to work towards this major are encouraged to take an Asian language.

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) may earn proficiency credit through taking a proficiency exam in French, German, Latin, Spanish at the Testing Center, or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. For additional credit, students with more than two years are encouraged to take a validating course. Students with four years in one foreign language at the high school level are encouraged to continue with that language. Since proficiency 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>
GSA	Science (select) ¹	-	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
RUSS 136a,b	Elementary Russian ²	4	4
GSE	Human Health and Well Being (select) ¹	2	-
GSD	Math (select) ¹	-	4
		<hr/> 15	<hr/> 16

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	3	-
GSD	Speech (select) ¹	2(3)	-
Russ 201a,b	Intermediate Russian ³	4	4
GSE	Human Health and Well Being (select) ²	2	-
Math or CS	Mathematics or Computer Science ⁴	-	3
Elective		-	3
		<hr/> 14-15	<hr/> 16

*See also Foreign Language Education under the College of Education.

¹See General Studies for the Transfer Student.

²The first year of Russian does not count toward the major.

³Required 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.

⁴One 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. FL 436, Methods in Teaching Modern Foreign Languages, is required if the student wishes to be certified to teach. 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, 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.

SECRETARIAL AND OFFICE SPECIALTIES

School of Technical Careers
(Associate in Applied Science)

Barbara Morgan
Acting Program Coordinator
Telephone - 618-536-6682
STC Building, Room 106

The business world offers many opportunities for secretarial and office personnel with special interest and intense training in specific areas. Both men and women find this a rewarding career field.

Students in this program are not forced into a mold. They may prepare for the position they want in the field that interests them by creating an individualized program of study. They will gain shorthand and typing proficiency and other office skills through a core of basic courses, and may then draw from a variety of allied health, technical, and business programs to specialize.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	3	-
GSD 153	Public Speaking	-	2
or STC 153b	or Conference Methods		
STC 101	Business Correspondence	-	2
or VES 302	or Communication in Business		
Scr 101a,b,c,d	Keyboarding	5	5
Scr 102a,b,c,d	Gregg Shorthand		
or			
Scr 103a,b,c,d	Machine Shorthand	5	5
Scr 104	Machine Transcription	-	3.5
STC 120	Fiscal Aspects of Technical Careers I	-	3
Scr 106	Reprographics	1	-
Scr 107	Filing & Records Management	2	-
Scr 109	Calculating Numerical Information	3	-
Scr 208	Applied Law for Technical Careers	3	-
		<u>22</u>	<u>20.5</u>

Second Year

A recommended program is stated for students in the following specialties: Administrative Assistant, Allied Health/Medical Secretary, Government/Legal Secretary, and Word Processing. The student may choose any other specialty, and a special program will be developed for the student.

Court and conference reporting is offered as a specialized associate degree program. Students combine classroom instruction with actual courtroom experience in the company of an official reporter to qualify to pass the National Shorthand Reporters Association test.

Secretarial And Office Specialties As A Major

Students are required to purchase all of their supplies such as typing paper, shorthand paper, carbon paper, etc. They are also required to purchase blank, high quality cassette tapes. Over a two year period this would amount to \$20 to \$60. Students enrolled in court reporting are required to purchase a shorthand machine at the end of their first year for an approximate cost of \$300.

A minimum of 67 hours credit is required for the associate degree.

Proficiency tests are available for most Secretarial and Office Specialties courses.

Representative First Job Titles: Legal Secretary, Medical Secretary, Administrative Secretary, Court Reporter, Word Processor.

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>
GSA	Science (select) ¹	3	-
*GSA 330	Weather	-	3
*GSB 104	The Human Experience: Anthropology	3	-
*GSB 202	Introduction to Psychology ²	3	-
*GSB 212	Intro. to American Government & Politics ²	4	-
GSC	Humanities (select) ¹	-	3
GSD 101	English Composition ²	3	-
GSD 117, 118, or 119	Writing (select) ^{1,2}	-	2
GSD 153	Public Speaking ²	-	3
GSE 201	Healthful Living ²	-	2
EDUC 201	Teacher's Role in Public School Education	-	1
*POL SCI 213	State and Local Government	-	3
		<u>16</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
*GSB 300	Origins of Modern America, 1492 to 1877 ²	3	-
*GSB 301	Modern America from 1877 to Present ²	-	3
GSC	Humanities (select) ¹	3	-
GSC	English Humanities Elective (required) ²	-	3
GSD	Math (select) ¹	4	-
GSE	Human Health and Well Being--activity ²	-	2
*ECON 214	Introduction to Macroeconomics	-	3
*SOC 301	Principles of Sociology	-	4
HIST	Elective in World History	3	-
		<u>16</u>	<u>15</u>

*Required courses in Social Studies.

¹ Refer to the section General Studies for the Transfer Student.

² Required courses for teacher certification include: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics, or GSB 300 or 301, U.S. History; GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical Report or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours), Physical Education activity; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

Social Studies As A Major

Students should be aware of requirements for entrance into the Teacher Education Program.

SOCIAL WELFARE

Division of Social and Community Services
College of Human Resources
(Bachelor of Science)

Dr. Foster Brown, Coordinator
Telephone - 618-453-2243
Quigley Hall, Room 4

The Social Welfare program offers a professional accredited curriculum which is designed to meet the educational needs of students with career interests in the human services field and leads to a Bachelor of Science degree in Social Welfare. 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>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	3	-
GSB 203	Sociological Perspective ²	-	4
GSC	Humanities (select) ¹	3	3
GSD II3	Introduction to Mathematics ³	2	-
GSD II2	Basic Concepts of Statistics ³	-	2
GSD I01 & 117, 118 or 119		3	2
GSE	Human Health and Well Being (select) ¹	<u>1</u>	<u>1</u>
		15	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	-	3
GSB 202	Introduction to Psychology ²	3	-
GSC	Humanities (select) ¹	3	-
GSD	Speech	-	2(3)
GSE	Human Health and Well Being (select) ¹	1	1
SW 375	Social Welfare as a Social Institution ⁴	-	3
HEALTH ED 311	Human Growth & Development	-	3
Electives		<u>5</u>	<u>3</u>
		15	15(16)

¹To determine what courses may be taken to satisfy the general education requirements for this program, please refer to the selection, General Studies for the Transfer Student.

²Students are required to take these Area B courses.

³These 4 hours to include statistics are required for Social Welfare majors rather than Algebra.

⁴These courses are required for a Social Welfare major. For specific information regarding the acceptability of a major requirements from a junior college, the coordinator of the Social Welfare program may be contacted.

Third and Fourth Year

The last two years of a student's program concentrate on specific professional objectives. The student will complete 56-58 hours in the major area which includes 42-44 hours in Social Welfare, and 14 hours comprising courses such as Sociology, Psychology and Community Development.

A unique aspect of the Social Welfare 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 Researcher, Child Placement Agent, Community Planning & Redevelopment Expert, Probation and Parole, Case Aide, Medical Social Worker, Outreach Worker, Residential Care Worker, Mental Health Worker, Activities Director.

The sociology curriculum provides the student with an understanding of social problems, processes, development, structures, institutions and movements and with the concepts and methods used to study them. The sociology major is intended to be part of a broad education which will develop insights and understandings about social arrangements. Its intent is to prepare the student to live a satisfying and meaningful life and to pursue a career in areas where critical insight and breadth of perspective are criteria of success. The areas include a wide range of occupations in government, business and public service. A major in sociology provides a sound background for advanced study not only in sociology and other social behavioral sciences but in social welfare, corrections, recreation, educational administration and other applied fields. It also provides a useful background for professions such as the law and the ministry.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GSD	Math (select) ¹	4	-
GSE	Human Health and Well Being (select) ¹	2	2
Math or CS	Mathematics or Computer Science ²	-	3
Elective ³		3	-
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	3
GSC or FL	Humanities (select) ¹ or Foreign Language ⁴	3(4)	3(4)
GSD	Speech (select) ¹	2(3)	-
SOC 301	Principles of Sociology ⁵	-	4
Elective ³		3	3
		<u>14-16</u>	<u>13-14</u>

¹ See General Studies for the Transfer Student.

² One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

³ 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).

⁴ 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

⁵ Required for the sociology major.

Sociology As A Major

There are numerous resources available to sociology students including a comprehensive sociology library in Morris Library, statistical laboratories, and computer facilities for those students interested in both humanistic and quantitative sociology. The curriculum provides flexibility in a variety of teaching, learning formats including seminars, individual projects and individual reading courses.

Sociology majors are employed in a wide range of occupations in government, business, education and public service. In addition to providing a valuable background for professions such as the law, counseling, and the ministry, a major in sociology provides a sound background for more advanced study, not only in a range of social and behavioral sciences, but in social welfare, criminal justice and corrections, recreation, educational administration and other applied fields.

Representative First Job Titles: Area Studies Specialist, Child Behavior Studies Specialist, Child Placement Studies Specialist, Child Welfare Studies Specialist, Civic Reform Studies Specialist, Community Planning & Redevelopment Personnel, Community Relations Personnel, Venereal Disease Investigator, Sales Trainee, Family Welfare Studies, Legal Assistance Officer, Group Interaction Studies, Group Supervisor in Mental Health, Action Volunteer, Minority Groups & Race Relations Studies, Patrolman, Counselor, Management Trainee (Corporations), Public Opinion Polls, Probation Parole Officer, Administrative Aide (Gov't.), Child Care Worker, Claims Authorizer, Social Stratification Analyst.

Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, 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. Student wishing to work towards this major are encouraged to take an Asian language.

Student 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) may earn proficiency credit through taking a proficiency exam in French, German, Latin, Spanish at the Testing Center, or in Chinese, Greek, Japanese, Russian, at the Foreign Languages and Literatures Department. For additional credit, students with more than two years are encouraged to take a validating course. Students with four years in one foreign language at the high school level are encouraged to continue with that language. Since proficiency credit of up to 16 hours is available, such students are in a 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>
GSA	Science (select) ¹	-	3
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
GSD 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
SPAN 140a,b	First-year Spanish ²	4	4
GSE	Human Health and Well Being (select) ¹	2	-
GSD	Math (select) ¹	-	4
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	-	3
GSC	Humanities (select) ¹	3	-
GSD	Speech (select) ¹	2(3)	-
SPAN 201a,b	Second-year Spanish ³	3	3
SPAN 220a,b	Spanish Conversation ⁴	2	2
MATH or CS	or Computer Science ⁵	-	3
GSE	Human Health and Well Being (select) ¹	-	1
		15(16)	15

*See also the program under the College of Education.

¹See General Studies for the Transfer Student.

²The first year of Spanish does not count towards the major. Spanish 175-5 may substitute for 140 a,b.

³Required 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.

⁴Only one semester of Intermediate Conversation may count towards the major.

⁵One 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 with at least 12 hours on the 300 level (to include 306, 320, and one 300 level literature course) and 12 hours on the 400 level (to include Spanish 415). A summer travel-study program in Mexico is available.

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, 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.

SPECIAL EDUCATION
College of Education
(Bachelor of Science)

M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

Dr. David Sabatino, Chairperson
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 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 144 to 149 hour program.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	-
GSC 100	Music Understanding	-	2
GSC 101	Introduction to Art	-	3
GSD 101	English Composition ²	3	-
GSD 117 or 119	Expository or Creative Writing ²	-	2
Math 114	Algebraic & Arithmetic Systems	4	-
GSE 201	Healthful Living ²	-	2
GSE	Human Health and Well Being (select) ^{1,2}	2	-
Ed 201	Teacher's Role in Public Education	-	1
Electives		-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB 202	Introduction to Psychology ²	3	-
GSB 300 or 301	U. S. History ²	-	3
GSC	Humanities (select) ¹	3	-
GSC	Literature (select) ^{1,2}	-	3
GSD 153	Public Speaking ²	3	-
MUS 101	Music Fundamentals	2	-
Mus 302	Music in Special Education	-	2
Math 314	Topics in Mathematics for Elementary Teachers	4	-
GSB 212	Intro. to American Government & Politics	-	4
		<u>15</u>	<u>15</u>

¹ Refer to the section General Studies for the Transfer Student.

² The following are required courses for certification: GSB 202, Introduction to Psychology; GSB 212, American Government OR GSB 300 or 301, History of the United States; GSC 100, Music Understanding; GSC 101, Introduction to Art, or GSC 205, Innovation for the Contemporary Environment; Music 101, Fundamentals of Music for GSC (substitution); GSD 101, English Composition; GSD 117, 118 or 119, Expository, Technical or Creative Writing; GSD 153, Public Speaking; GSE 100-114 (2 hours) Physical Education activity; GSE 201, Healthful Living; and one additional English course (GSC, GSD or departmental).

SPEECH COMMUNICATION

(Communication Arts & Studies)
College of Communications and
Fine Arts
(Bachelor of Science)

Dr. Randall Bytwerk, Advisement
Telephone - 618-453-2291
Communications Bldg, Room 2002

The Department of Speech Communication offers courses in the history, theory and application of communication. Program specializations prepare majors for professional, artistic and instructional careers in human communication. The department also sponsors cocurricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students in debate and individual event teams travel extensively and are consistently ranked in the top five nationally. The oral interpretation group performs regularly on the Calipre Stage and the creative drama students take their talents into the elementary schools in southern Illinois.

General Speech and Public Relations majors are fully prepared to accept positions in such areas as advertising, market research, corporate and consumer relations, all levels of government administration, and related agency work. Traditionally, speech communication majors pursue careers in such fields as sales, law, personnel management, politics, career diplomacy, social work, professional negotiation and arbitration, artistic performance, business and industry.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	3
GSC	Humanities (select) ¹	3	-
*GSC 200	Oral Interpretation of Literature	-	3
GSD 101	English Composition	3	-
GSD 117, 118			
or 119	Writing (select) ¹	-	2
GSD 152 or 153	Interpersonal Communications or Public Speaking	-	2 (3)
GSE	Human Health and Well Being - Activity	1	1
Electives		3	3
		16	17 (18)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	-	3
GSB	Social Studies (select) ¹	3	-
GSC	Humanities (select) ¹	3	-
GSD	Mathematics (select) ¹	-	4
GSE	Human Health and Well Being(select) ¹	1	1
*SPCH 221	Advanced Public Speaking	3	-
*SPCH 230	Introduction to Communication Theory	3	-
*SPCH 262	Interpersonal Communication II	-	3
Electives		2	4
		15	15

*Departmental requirements.

¹ Refer to section General Studies 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: Interpreter, 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)

Dr. Randall Bytwerk, Advisement
Telephone - 618-453-2991
Communications Building, Room 2002

M. Frances Giles, Coordinator
Teacher Education Services
Telephone - 618-453-2354
Wham Building, Room 135

A major in the Department of Speech Communication provides the undergraduate with a substantial background in the history, theory, and application of verbal and nonverbal communication. The program specializations are designed to develop the language and personal skills for professional, artistic, and instructional careers in human communication; to explore the social and cultural implications of human interaction; to compare the aesthetic and instrumental nature of oral communication; and to provide cosmopolitan and diverse opportunities for the study of and training for communication as personal perception and expression. A degree in speech communication enables the student to secure employment in a variety of professions. Communication Education majors are successfully placed as teachers from sixth grade through senior high school.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
*GSB 202	Introduction to Psychology	3	-
*GSB 212	American Government and Politics	-	4
*GSC 203	Introduction to Theater	3	-
*GSC 200	Oral Interpretation of Literature	-	3
GSD 101	English Composition	3	-
GSD 117, 118			
or 119	Writing (select) ¹	-	2
*GSD 153 or 152	Public Speaking or Interpersonal Communication	-	3 (2)
GSE	Human Health and Well Being--Activity	1	1
*GSE 201	Healthful Living	2	-
*ED 201	Teacher's Role in Public School Education	1	-
		<u>16</u>	<u>16 (15)</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Studies (select) ¹	-	3
GSC	English in Humanities (select) ¹	-	3
GSD	Mathematics (select) ¹	4	-
*SPCH 221	Advanced Public Speaking	3	-
*SPCH 230	Introduction to Speech Communication	3	-
*SPCH 261	Small Group Communication	-	3
*SPCH 262	Interpersonal Communication II	-	3
Electives		<u>3</u>	<u>3</u>
		<u>16</u>	<u>15</u>

*Departmental requirements.

¹ Refer to section General Studies for the Transfer Student.

College of Education requires for certification: GSB 202; GSB 212, 300 or 301; GSD 101; GSD 117, 118 or 119; GSD 153; GSE 100-114 (2 hours), GSE 201; and one additional English course from GSC, GSD 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)

Dr. Randall Bytwerk, Advisement
Telephone - 618-453-2291
Communications Bldg, Rm 2002

The Department of Speech Communication offers courses in the history, theory and application of communication. Program specializations prepare majors for professional, artistic and instructional careers in human communication. The department also sponsors cocurricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students in debate and individual event teams travel extensively and are consistently ranked in the top five nationally. The oral interpretation group performs regularly on the Calipre Stage and the creative drama students take their talents into the elementary schools in southern Illinois.

Oral Interpretation majors often pursue careers in theatre, radio and television entertainment, publishing companies, literary criticism, writing, and education. Traditionally, speech communication majors pursue careers in such fields as sales, law, personnel management, politics, career diplomacy, social work, professional negotiation and arbitration, artistic performance, business and industry.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	-	3
*GSB 202	Introduction to Psychology	3	-
GSC	Humanities (select) ¹	3	-
*GSC 200	Oral Interpretation of Literature	-	3
GSD 101	English Composition	3	-
GSD 117, 118			
or 119	Writing (select) ¹	-	2
GSD 152 or 153	Interpersonal Communication or Public Speaking	-	2 (3)
*GSE 103d	Dance (Beginning Contemporary)	2	-
Electives		3	3
		<u>17</u>	<u>16 (17)</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Studies (select) ¹	3	-
GSC	Humanities (select) ¹	-	3
GSD	Mathematics (select) ¹	-	4
GSE	Human Health and Well Being - Activity	-	2
*SPCH 221 or 261	Advanced Public Speaking or Small Group Communication	3	-
*SPCH 262	Interpersonal Communication II	3	-
*THEA 303	Voice and Diction	2	-
*THEA 207	Fundamentals of Theatrical Design	-	2
*ENG LIT	Recommended by Department	-	3
Electives		3	3
		<u>17</u>	<u>17</u>

*Departmental requirements.

¹ Refer to section General Studies 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.

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 are available in Speech Communication. Students choose electives to build desired specialization.

Representative First Job Titles: Interpreter, 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)

Dr. Michael Parkinson, Advisement
Telephone - 618-453-2291
Communications Bldg., Room 2002

The Department of Speech Communication offers courses in the history, theory and application of communication. Program specializations prepare majors for professional, artistic and instructional careers in human communication. The department also sponsors cocurricular activities in debate, forensics, oral interpretation, creative drama and public relations.

General Speech and Public Relations majors are fully prepared to accept positions in such areas as advertising, market research, corporate and consumer relations, all levels of government administration, and related agency work. Traditionally, speech communication majors pursue careers in such fields as sales, law, personnel management, politics, career diplomacy, social work, professional negotiation and arbitration, artistic performance, business and industry.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 212	Intro. to American Gov't & Politics	-	4
GSA	Science (select) ¹	3	3
*GSB 202	Introduction to Psychology	3	-
GSC	Humanities (select) ¹	3	3
GSD 101	English Composition	3	-
GSD 117, 118			
or 119	Writing (select) ¹	-	2
*GSD 153 or 152	Public Speaking or Interpersonal Communication	2 (3)	-
GSE	Human Health and Well Being - Activity	1	1
ECON 214	Macroeconomics	-	3
		<u>15 (16)</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSC	Humanities (select) ¹	-	3
GSD	Mathematics (select) ¹	4	-
GSE	Human Health and Well Being - Activity	2	-
*SPCH 326	Persuasion	-	3
*R&T 300m	Radio-Television Writing Performance Production	-	4
*JRNL 300	Mass Media in Modern Society	-	3
*JRNL 310	Writing for the Mass Media	-	3
SPCH 280	Business & Professional Communication	3	-
SPCH 280	Small Group Communication	3	-
		<u>15</u>	<u>16</u>

*Departmental requirements.

¹Refer to section General Studies 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.

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.

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.

A major in Speech Communication may be obtained from the Department of Speech Communication, through the College of Communications and Fine Arts, College of Liberal Arts, or the College of Education. Courses offered by the Speech Communication Department include principles of speech, semantics, discussion, argumentation and debate, persuasion, public address, the oral interpretation of prose and poetry, public relations, and interpersonal communication. Majors in this area may find positions in many phases of business and industry, particularly those relying on the effective communication of ideas and information.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Science (select) ¹	3	3
GSC	Humanities (select) ¹	-	3
GSD 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GSD 152 or 153	Interpersonal Communication or Public Speaking	2(3)	-
GSD	Math (select) ¹	-	4
GSE	Human Health and Well Being (select) ¹	2	2
Elective ²		2	-
		15-16	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Science (select) ¹	-	3
GSC 200	Oral Interpretation of Literature	3	-
GSC or FL	Humanities (select) ¹ or Foreign Language ⁴	3(4)	3(4)
Sp 221	Advanced Public Speaking ³	3	-
Sp 261	Small Group Communication	-	3
Math or CS	Mathematics or Computer Science ⁵	3	-
Elective ²		-	3
		15-16	15-16

*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.

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

²Elective 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).

³Required by the major.

⁴Two semesters (which is generally eight hours) or 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 GSC credit and three hours may be used to complete the thirty hours which are required from GSA, GSB, or GSC. If no foreign language is required, then the student may choose the GSC option instead.

Representative First Job Titles: Interpreter, 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.

The Baccalaureate Studies program in technical careers is designed for individuals who are following a career path for which there is no existing program leading to the bachelor's degree. More specifically, it is designed for students who have completed an occupational associate degree (or its equivalent) and who would like to add to or broaden their career preparation. It allows the career-oriented student to design an individualized course of study that exactly fits the individual's educational needs.

Unlike conventional programs, the STC baccalaureate studies program has no established curriculum or required courses. With the help of an STC baccalaureate faculty member, each student designs a program of study to give the preparation needed for advancing in a particular field.

In preparing a program of study, a student may choose courses from any of the undergraduate colleges and schools at SIUC. For example, a student with an associate degree in automotive technology who wishes to work in automotive service management may include courses in small business management, business law, management and supervision, personnel psychology, and applied accounting. A student with an associate degree in commercial graphics who wishes to be a writer and illustrator of children's books may design a curriculum which includes courses in art, children's literature, creative writing, and child psychology.

In addition to admission to SIUC, the student must meet these requirements in order to be admitted to the individualized baccalaureate studies program:

- Have completed at least two terms of post-secondary education;
- Have an approved learning contract on file with the program;
- Special approval if more than 90 semester hours of post-secondary education have been accomplished.

Requirements for the Bachelor of Science degree in technical careers include:

- Complete two years of study (60 hours minimum) beyond the occupational associate degree, including all SIUC baccalaureate degree requirements
- Complete the requirements listed in the learning contract
- Obtain credit for approved work experience or internship
- Be enrolled full time in the baccalaureate studies program for at least two terms

In addition to being able to design individualized courses of study, students may also receive credit for previous civilian and military work experience as well as for military schools. This experience, of course, must be related to the career goal.

Because each student's program is individualized, it is not possible to give a detailed curriculum each student will follow. The general model, however, is as follows:

Associate Degree Courses (at community college or at SIUC) 60 hours
(Associate degree can be in almost occupational field, from Allied Health to Welding)

<u>Baccalaureate Courses</u> (at SIUC)		<u>Capstone</u>	<u>Regular General Studies</u>	
1.	General Studies	approx.	15	approx. 30
2.	Secondary Concentration (career-related courses taken beyond the associate degree)	minimum of	30	minimum of 18
3.	Internship		6	6
4.	Electives	approx.	<u>9</u>	<u>6</u>
Total			60	60

Admission to the STC baccalaureate studies program does not imply admission to any STC associate degree program. Students who wish to take courses in an associate degree program, must obtain the consent of the associate degree program coordinator.

Because the STC baccalaureate program takes a limited number of students, early application is advisable.

THEATER

(Acting-Directing Option)
(Design-Technical Option)
(Playwriting-Dramatic Literature
Option)

College of Communications and Fine Arts
(Bachelor of Arts)

Darwin Payne, Chairperson
Telephone - 618-453-5741
Communications Bldg, Room 1035

Instruction and training in all phases of dramatic production for the stage and in basic techniques for dramatic production in television, radio, and motion pictures are provided.

Education for dramatic production entails (1) training and practice in acting, directing, and technical production (stage management, crew work, the planning and execution of costumes, lighting, and scenery); (2) understanding of the essential nature of theater art through study of theater esthetics, history, and criticism; (3) survey of theater management practice; (4) a study of the principles and techniques of playwriting and; (5) a knowledge of dramatic literature.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	-
GSB	Social Studies (select) ¹	3	3
GSD 101 and 117			
118 or 119	English Composition and Writing (select) ¹	3	2
GSD 153	Public Speaking	3	-
GSD 107 or 110	Intermediate Algebra or		
or 112	Statistics ¹ (select one)	-	4 (2)
GSE	Human Health and Well Being (select) ¹	2	2
*THEA 203a,b	Voice and Diction	3	3
		<u>17</u>	<u>14 (12)</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSA	Science (select) ¹	3	3
GSB	Social Studies (select) ¹	3	-
GSC	Humanities (select) ¹	-	3
*THEA 218a,b	Staging Techniques	6	3
*THEA 213a,b	Stage Movement	3	3
*THEA 207	Fundamentals of Theatrical Design	2	-
Electives ²		-	5
		<u>17</u>	<u>17</u>

*Required courses for a major in Theater. Consult department for "option" requirements.

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

²Students should consult with the department regarding the selection of courses to fulfill this requirement.

Theater As A Major

No minor is required. Graduate degrees available.

The University Theater, under the supervision of the Theater faculty, produce each year four full-length plays, and three programs of original one-acts. Each summer a resident stock company produces a playbill in the air-conditioned University Theater.

Many opportunities for practical experience with more production activity than most theater departments.

A few tuition scholarships are available.

Students can participate in the production of new plays.

Numerous opportunities are available to see Broadway touring shows brought to campus.

Representative First Job Titles: Illustrator, Recreation Specialist, Costume Designer, Visual Information Specialist, Sound Effect Technician, Theater Drafting Technician, Make-up Specialist, Sales (Magazine), Lighting Effect Technician, Scenery Specialist, Crew Worker in the Television, Crew Worker in the Motion Picture, Costume Specialist, Performing Artist, Folk Dancer, Ballet Dancer, Choreographer (Dance Composer), Assistant to the Dance Director, Assistant to the Play Director, Theater Management Staff, Educational Television Staff, Children's Program Specialist, Modern Dancer, Understudies Artist.

TOOL AND MANUFACTURING TECHNOLOGY
(Metal Fabrication and Processes)
School of Technical Careers
(Associate in Applied Science)

H. R. Soderstrom
Program Coordinator
Telephone 618-985-4110
STC Carterville Campus

The metal fabrication and processes specialization provides training in machine shop, welding and fabrication. Students in this specialization will learn to operate such machine tools as lathes, milling machines, grinders and drill presses. They will develop proficiency in a variety of welding skills and learn to use oxy-acetylene, electric arc, metallic inert gas and tungsten-inert gas welding machines.

Graduates of the program may choose to work as a tool and manufacturing technician. They will have the technical background required to work with engineers in research, development and testing. In addition, they will be skilled in metal cutting and fabrication.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSD 101	English Composition	-	3
STC 105a,b	Technical Mathematics	-	4
TT 101	Basic Tool and Manufacturing Lab	7	-
TT 102	Milling Machine and Grinding Lab	-	7
TT 125	Introduction to Machine Tools	3	-
TT 126	Machinability of Metals, Milling and Abrasive Machining	-	3
TT 128	Hydraulic and Pneumatic Controls	2	-
TT 180, 181	Welding I and II	3	3
TT 185	Technical Drawing I	4	-
		<u>19</u>	<u>20</u>

<u>Second Year</u>			
GSB	Social Science elective	-	3
GSD or STC	Speech or Technical Writing	-	2 (3)
STC 107a,b	Applied Physics	4	-
TT 182	Welding III	3	-
TT 183	Welding Blueprint Reading	2	-
TT 225	Manufacturing Processes	-	2
TT 275, 276	Ferrous and Tool Steel Metallurgy	2	2
TT 310	Certified Welder Training	6	6
		<u>17</u>	<u>15 (16)</u>

Representative First Job Titles: Machinist, Model Maker, Engineering Technician, Prototype Builder, Machine Maintenance Mechanic, Welder, Process Planner.

TOOL AND MANUFACTURING TECHNOLOGY
 (Tool and Manufacturing--Numerical Control)
 School of Technical Careers
 (Associate in Applied Science)

H. R. Soderstrom
 Program Coordinator
 Telephone - 618-985-4110
 STC Carterville Campus

More and more technicians are needed because of the growing array of automated and numerically controlled machines. The tool and manufacturing curriculum is designed specifically to do just this: prepare the student in specific technical areas that are in great need of trained and skilled people. The tool and manufacturing curriculum furnishes technical information in tool making, metallurgy, statics, strength of material, numerical and electric controls, manufacturing processes, process planning, and machinability of metals.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GSB 101	English Composition	-	3
GSB 202	Introduction to Psychology	-	-
or			
GSB 212	Intro to American Government & Politics	-	3 (4)
STC 105a,b	Technical Mathematics	4	-
TT 101	Basic Tool and Manufacturing Lab	7	-
TT 102	Milling Machine and Grinding Lab	-	7
TT 125	Introduction to Machine Tools	3	-
TT 126	Machinability of Metals, Milling, and Abrasive Machining	-	3
TT 128	Hydraulics and Pneumatic Control	2	-
TT 185, 186	Technical Drawing I & II	4	4
		20	20 (21)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
EDP 208a	Numerical Control Programming	4	-
STC 102	Technical Report Writing	-	-
or			
STC 153	Conference Methods	-	2
STC 107a,b	Applied Physics	4	-
TT 210	Numerical Control, Electrical Discharge Machining, and Tool and Die	7	-
TT 211	Advanced Numerical Control, Tool and Die, and Production Machining	-	7
TT 220	Numerical Control, Inspection Practice, and Electrical Discharge	3	-
TT 221	Tool and Die, Production Machining, & Process Planning	-	3
TT 275	Ferrous Metallurgy	2	-
TT 276	Tool Steel Metallurgy	-	2
TT 225	Manufacturing Processes	-	2
		20	16

Tool And Manufacturing Technology As A Major

This program provides knowledge and abilities for industries requiring engineering technicians. Graduates accept jobs as part programmers of numerical control machines, laboratory technicians, planners, methods and quality control technicians, expeditors, tool and die technicians, tool room technicians, and tool room supervisors.

Emphasis is on modern machine tools and accessories, numerical control machines, production set-ups and tooling, jigs and fixtures, dies, and methods for efficient and economical production and manufacture of industrial products and machines.

Also included are courses detailing with the properties and heat treatment of metals, mathematics, technical drawing, technical writing, oral communications, and the human relations aspects of our American industrial life.

The student in this program will have the advantage of courses in data processing that will give him or her the ability to work with computer-assigned programming for numerical controlled machines.

He or she will learn to design and test industrial, electrical, hydraulic, and pneumatic power circuits; to read blueprints, design basic jigs and fixtures, make shop sketches, and alter existing machines for structural changes; and to build basic progressive dies, draw dies, die casting dies, and plastic injection mold dies.

The graduate will have the technical background to work with engineers in research, development and testing, plus skills in metal cutting that will give him or her the abilities of a tool maker.

Representative First Job Titles: Machinist, Tool & Die Maker, Model Maker, Engineering Technician, Maintenance Worker, Prototype Builder, Inspector, Process Planner.

The University Studies Baccalaureate Program is a non-traditional, individualized means of obtaining a degree for students who are interested in designing a multidisciplinary, interdisciplinary, or general program of study. Especially suited to re-entry students, University studies allows them to adapt their studies to their educational, career, and family situations.

In University Studies, the student can either pursue a Bachelor of Arts or a Bachelor of Science degree. The Bachelor of Arts requires passing one full year of a foreign language through course work or proficiency exam.

Unlike traditional programs, University Studies does not have an established curriculum. Instead, students use the resources of the entire University. For example: a person interested in arts management may combine courses in the fine arts with others in or related to business, thereby gaining skills enabling him/her to manage a civic center or theater. Or, a person wishing to attend graduate school to become a librarian may combine instructional media and languages courses with courses from a particular field of interest; such a strong curriculum prepares him/her for entrance into a graduate library school. Other students may opt to pursue a broad, general education or to combine a general range of courses with work experience.

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 (on a 4.00 scale).
 - a. The 2.25 must be in all courses taken from SIUC, if the student is a continuing or re-entry SIUC student.
 - b. The 2.25 must be the overall GPA on all previous college work for a transfer student entering SIUC for the first time.

A student also 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 and passed in any department or school within a college, over and above General Studies requirements.
2. No more than 40 semester hours, in addition to General Studies requirements, may be taken or passed in any SIUC college or major academic unit, 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 areas.

In addition to being able to design individualized courses of study, students may receive credit for previous and current work and military experience. This experience should, of course, be related to career goals.

A general model of a curriculum for a degree from USBP might be:

1. General Studies	45 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>27 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 should arrange an interview with the University Studies Program director to determine eligibility. If criteria are met, the student can then be admitted to the program.

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>
GSB 212, 300, or		
301 American Government or U. S. History ³	4 (3)	-
GSD 101 English Composition ³	3	-
GSD 117, 118, or		
119 Writing ³	-	2
GSE 201 Healthful Living ³	-	2
GSE Human Health & Well Being-Activity (select) ^{2,3}	1	-
*MATH 111 College Algebra and Trigonometry	5	-
ZOOL 220a,b Diversity of Animal Life	4	4
**CHEM 224, 225 Introduction to Chemical Principles & Lab	-	7
	<u>17 (16)</u>	<u>15</u>

<u>Second Year</u>	<u>Fall</u>	<u>Spring</u>
GSB 202 Introduction to Psychology ³	3	-
GSB Social Studies (select) ²	-	3
GSC English Elective in Humanities (select) ^{2,3}	3	-
GSC Humanities (select) ²	3	3
GSD 153 Public Speaking ³	-	2
GSE Human Health and Well Being--Activity ³	-	1
**BIOL 305 Genetics - Classical and Molecular	3	-
**BIOL 307 Environmental Biology	-	3
ED 201 Teacher's Role in Public School Education	1	-
ZOOL 300 Vertebrate Embryology	4	-
ZOOL Elective	-	4
	<u>17</u>	<u>16</u>

*Approved substitute for GSD Math.

**Approved substitutes for GSA.

¹ Should also have a minor in Botany. See also the program under the College of Science.

² Refer to the section General Studies for the Transfer Student.

³ The following are required courses for certification: GSB 202, Introduction to Psychology; GSB 212, Introduction to American Government and Politics OR GSB 300 or 301, History of the United States; GSD 101, English Composition; GSD 117, 118, 119, Expository, Technical, or Creative Writing; GSD 153, Public Communication; GSE 100-114 (2 hours), Physical Education Activities; GSE 201, Healthful Living; One additional English course (GSC, GSD, or departmental); Math 111 or 110a,b, College Algebra and Trigonometry.

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. Dwayne Englert
Dir. of Undergraduate Studies
Telephone - 618-536-2314
Life Science II, 351 or 355F

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 specialities. 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>
GSB	Social Studies (select)	-	3
GSC	Humanities (select)	-	3
GSD 101	English Composition	3	-
GSD 117, 118 or 119	Writing (select)	-	2
MATH 111 or MATH 110a,b	College Algebra and Trigonometry ^{1,2,3}	5 (3)	- (2)
Elective or			
CHEM 115	Introductory General Chemistry ^{1,2,4}	3	-
CHEM 222a	Introduction to Chemical Principles ^{1,2,4}	-	4
ZOOL 118	Introductory Zoology ^{1,2}	4	-
ZOOL 220a	Diversity of Animal Life (invertebrate) ²	-	4
		15 (14)	16 (18)
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GSB	Social Studies (select)	-	3
GSC	Humanities (select)	2	-
GSD	Speech	2 (3)	-
GSE	Human Health and Well Being(select)	-	1
CHEM 222b	Introduction to Chemical Principles ^{2,4}	4	-
MATH 140 or 150	Calculus	-	4
ZOOL 220b	Diversity of Animal Life (vertebrate)	4	-
BIOL 307	Environmental Biology ^{1,2}	-	3
FL	Foreign Language ^{1,2}	4	4
		16 (17)	15

¹ Approved substitutes for General Studies.

² The College of Science requires one year of any foreign language, one year of math, 6 semester hours of physical sciences, and 6 semester hours of biological sciences.

³ GSD 107 or 1½ years of high school algebra is a prerequisite to Math 111 and 110a.

⁴ Chem 115 is for students who have less than one year of high school chemistry. Chem 222a,b or 224, 225 will satisfy Zoology Department requirements for inorganic chemistry. For some students, Chem 140a,b will be adequate.

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.

Zoology As A Major

A major in zoology is an appropriate beginning for those planning to specialize in teaching or research in the zoological 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.

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PUBLICATIONS

PUBLICATIONS FOR COUNSELORS

Counselor's Advisement Catalog

Every counselor and academic advisor should have a personal copy. Write School/College Relations Division, Office of Admissions and Records.

Undergraduate Catalog

Copies are distributed free to educational institutions and counselors--use school stationery. Graduate Catalog, School of Law Catalog, Schedule of Classes (specify semester) are also available by writing University Graphics.

School/College News

Published as needed to inform immediately counselors, student personnel services, staff, etc., of items of interest, status of programs, changes in academic or unit requirements.

PUBLICATIONS FOR STUDENTS

General Information for Undergraduates

This small pictorial and factual booklet contains information and guidelines for the prospective student. It is distributed in application packets, at college days, night programs, and in correspondence. Quantities will be sent on request. Write University Graphics or School/College Relations Division, Office of Admissions and Records.

New Student Newsletter

Published as needed to inform immediately students and their families about items of interest, status of programs, changes in procedures, etc.

OTHER MATERIALS AND OFFICES

Admission Applications--Office of Admissions and Records

Testing Information (ACT, CLEP)--Testing Office, Career Planning and Placement Center

Financial Aid Applications--Office of Student Work and Financial Assistance

University Housing Information--Housing Business Services, Washington Square, Building D

Off-Campus (Private) Housing Information--Housing Information Center, Washington Square, Building C

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