

1986

1986-1987 Southern Illinois University Bulletin Carbondale Campus (Counselor's Advisement Catalog)

Southern Illinois University Carbondale

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Southern Illinois
University
at Carbondale
Bulletin

27:2

SIU

1986-87 Counselor's
Advisement Catalog

SIU...
*where
good things
happen!*



Southern Illinois University at Carbondale Bulletin

1986-87 Counselor's Advisement Catalog

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

Volume 27, Number 2, July 1985

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COUNSELOR'S ADVISEMENT CATALOG

HIGHLIGHTS of the 1986-87 edition of the Counselor's Advisement Catalog.

Many thanks to all of you who completed our usage survey for this catalog! We were delighted to see how happy the vast majority of you are with the overall content and format of this publication; many asked us not to change it at all. As a result, you will see no major adjustments in the format of this year's edition.

The one consistent complaint--type size and readability--is still with us due to the current method of production and our present publications budget. We continue to examine production alternatives.

There are some major policy and program changes that went into effect for Fall 1985. Please pay particular attention to the following sections:

New General Education Requirements (see page 38).

New Engineering Admission Policy (see page 15).

New Bachelor's Degrees in civil engineering, electrical engineering, mechanical engineering, and mining engineering; in aviation management, electronics management, fire science management (off-campus only), and career development to replace the B.S. in Technical Careers.

It is imperative that you discard all older editions of this catalog, and that each member of your counseling staff is given a personal copy of this edition. Just let us know how many additional copies are required.

Catherine Foster Walsh, Editor

SCHOOL/COLLEGE RELATIONS DIVISION
OFFICE OF ADMISSIONS AND RECORDS
SOUTHERN ILLINOIS UNIVERSITY
CARBONDALE, ILLINOIS 62901

TABLE OF CONTENTS

Letter, Handbook Instructions	1
University Calendar	3
Campus Map	4
Campus	6
University Directory	7
 GENERAL INFORMATION	 8
General (Environment, University, Student Body, Degrees)	8
Accreditation	9
Undergraduate Major Listing	10
Application Request Procedures	11
Admission Policies - High School	12
Admission Policies - Transfer Student	13
Admission Policies - Other	14
Housing	17
Registration and Advisement	19
Costs	21
Financial Assistance	22
Student Services/Activities/Athletics	24
Motor Vehicles	29
 ACADEMIC INFORMATION	 30
Recognition of High Achievement	30
Program Flexibility (Advanced Placement, CLEP, Proficiency, Credit for Work)	30
Special Programs	33
Scholastic Standards	37
Basic Graduation Requirements	38
General Studies for the Transfer Student	39
Evaluation of Transfer Credit	43
 INSTRUCTIONAL UNITS	 45
Pre-professional Programs	45
Undergraduate Academic Services	46
School of Agriculture	47
College of Business and Administration	48
College of Communications and Fine Arts	49
College of Education	50
College of Engineering and Technology	52
College of Human Resources	53
College of Liberal Arts	53
College of Science	54
School of Technical Careers	55
Graduate School	56
School of Law	57
School of Medicine	57
Aerospace Studies (AFROTC)	58
Army Military Science	59
 Entry Level Job Titles	 60
RECOMMENDED TWO-YEAR PROGRAMS	61
 Index	 222
Publications	225

UNIVERSITY CALENDAR

Fall Semester 1985

Semester Classes Begin
Labor Day Holiday
Thanksgiving Vacation

Final Examinations

Monday, August 19, 8:00 a.m.
Monday, September 2
Saturday, 12:00 noon--Monday, 8:00 a.m.
November 23-December 2
Monday-Friday, December 9-13

Spring Semester 1986

Semester Classes Begin
President's Day Holiday
Spring Vacation

Final Examinations
Commencement

Monday, January 13, 8:00 a.m.
Monday, February 17
Saturday, 12:00 noon-Monday, 8:00 a.m.,
March 8-17
Monday-Friday, May 5-9
Saturday, May 10

Summer Session 1986--Proposed

Eight Week Session Begins
Independence Day Holiday
Final Examinations
Commencement

Monday, June 9, 7:30 a.m.
Friday, July 4
Thursday and Friday, July 31-Aug. 1
Saturday, August 2

Fall Semester 1986--Proposed

Semester Classes Begin
Labor Day Holiday
Thanksgiving Vacation

Final Examinations

Monday, August 25, 8:00 a.m.
Monday, September 1
Saturday, 12:00 noon--Monday, 8:00 a.m.,
November 22 - December 1
Monday--Friday, December 15-19

Spring Semester 1987--Proposed

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

Final Examinations
Commencement

Monday, January 19
Tuesday, January 20, 8:00 a.m.
Monday, February 16
Saturday, 12:00 noon--Monday, 8:00 a.m.,
March 14-23
Monday--Friday, May 11-15
Saturday, May 16



Southern Illinois University

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

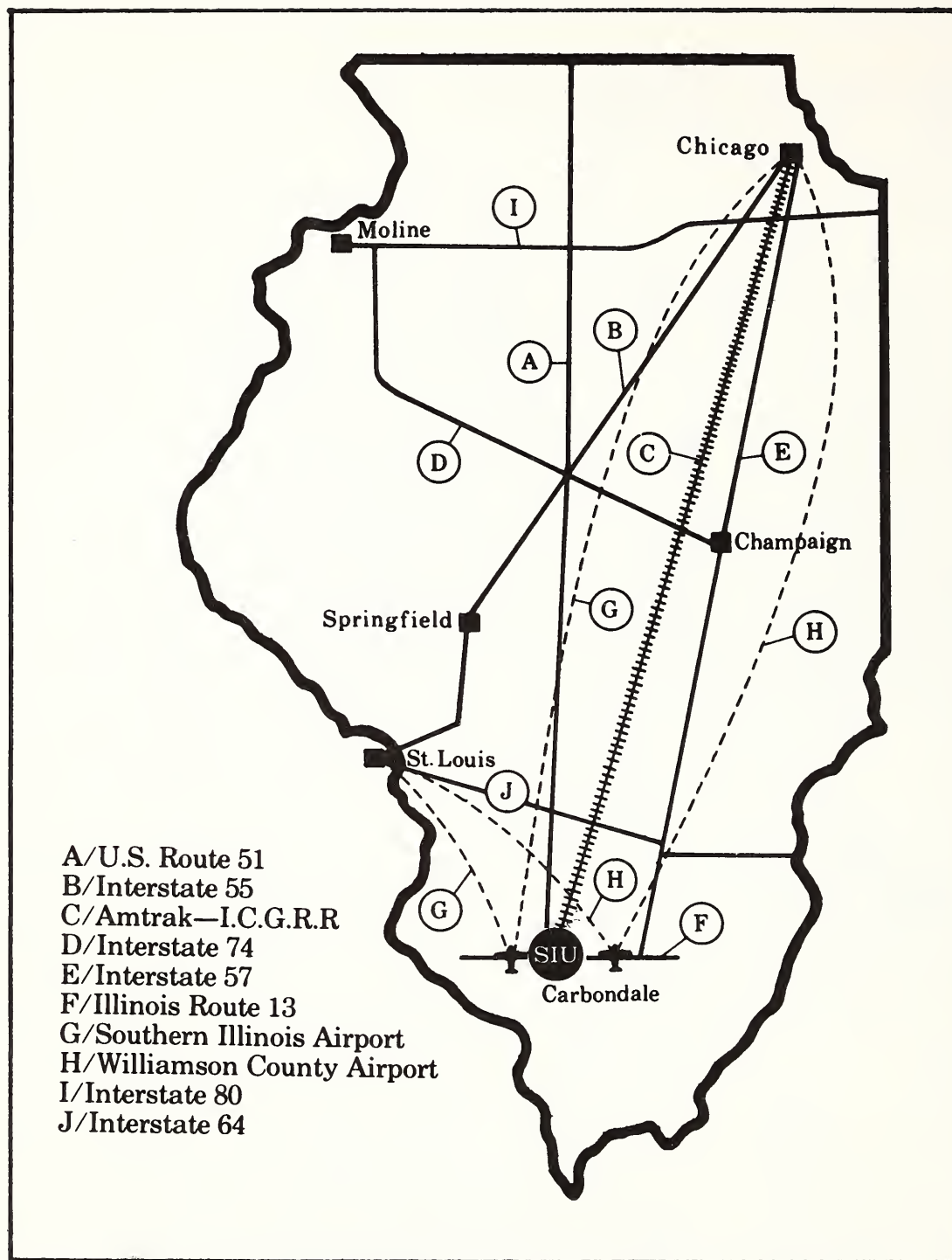
10. Pulliam Hall (1951)
11. School of Technical Careers (1951)
12. Woody Hall (1953)
13. Lindegren Hall (1953)
14. Morris Library (1956)
15. Thompson Point Residence Halls (1957)
16. Agriculture Building (1957)
17. Quigley Hall (1959)
18. Southern Hills Family Housing (1960)
19. Greek Row (1960)
20. Student Center (1961)
21. SIU Arena (1964)
22. Wham Education Building (1964)
23. University Park Residence Halls (1965)
24. Lawson Hall (1965)
25. Communications Building (1966)
26. Health Service (1966)
27. Technology Buildings (1966)
28. Henry J. Rehn Hall (1967)
29. James W. Neckers Building (1968)
30. Evergreen Terrace Family Housing (1968)
31. Washington Square (1967)
32. Brush Towers Residence Halls (1968)
33. Life Science II (1971)
34. President's Home (1971)
35. Faner Building (1973)
36. Student Recreation Center (1977)
37. 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
Graduate School 12
College of Human Resources 17
School of Law 19, 38
College of Liberal Arts 35
School of Medicine 13
College of Science 29
School of Technical Careers 11, 37
Undergraduate Academic Services 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
Graduate Studies and Research
International Education
Student Services
Specialized Student Services
Student Work and Financial Assistance
Undergraduate Academic Services
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 974-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 255-building campus now is contemporary. Facilities vary in style, size, and purpose from a circular 10,000-seat arena, to an eight-sided multimedia instruction center, 17-story high-rise residence halls, and a permanent beach house on the 40-acre spring-fed campus lake.

Oriented to teaching and research, the University provides a balance of laboratories and classrooms which serve as satellites to the impressive 7-story Morris Library containing over 1.7 million volumes and subscribing to 14,900 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, Carbondale, Illinois 62901.

OFFICES

SIU (University Switchboard)	(618) 453-2121
Admissions and Records (applications, registration) (Illinois residents call toll free 1-800-642-3531)	(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
Disabled Student Services	(618) 453-5738
Health Service	(618) 453-3311
Housing Business Services (on-campus housing)	(618) 453-2301
Housing Information Services (off-campus housing)	(618) 453-2301
International Development	(618) 453-5774
Parking Division	(618) 453-5369
School/College Relations	(618) 453-4381
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) 526-3303
University Publications and Graphic Services	(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
Undergraduate Academic Services (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

ENVIRONMENT

Community: Carbondale, Illinois (pop. 26,400)
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 57.0 degrees.
Area: Historical "Little Egypt," year-round outdoor recreation, four scenic large lakes, national forest and game refuge.
Transportation: Major train, plane, and bus routes: Amtrak Rail System; Britt Airways and Resort Air; Gulf Transport bus line; highway routes Interstate 57, US 51, Illinois 13.

UNIVERSITY

Name: Southern Illinois University
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: 7,014; on-campus 974 acres
Campus Buildings: 255
Colors: Maroon and white
Mascot: Saluki (Egyptian hunting dog)

STUDENT DATA

Enrollment, Fall 1984: 22,874
Undergraduate, 18,794; graduate, 3,488; Professional 592; Non-degree 156.
Men, 14,538; Women, 8,336
Residency: Illinois 18,050 (79%); out-of-state 2,801 (12%); 103 other countries, 2,023 (9%)

PERSONNEL, 1984

Percentage full-time faculty with doctorate: 65%
Undergraduate students/faculty who teach at undergraduate level ratio: 18:1

DEGREES

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

ACCREDITATIONS AND AFFILIATIONS

North Central Association of Colleges and 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)
American Bar Association and Association of American Law Schools
American Board of Funeral Service Education (Mortuary Science program)
American Chemical Society
American Council on Education for Journalism and Mass Communications
Commission of Accreditation of Dental and Dental Auxiliary Educational Programs of the American Dental Association (Dental Hygiene and Dental Technology programs)
Commission on Accreditation of Rehabilitation Facilities (Vocational development program)
Committee on Allied Health Accreditation (CAHEA)
American Dietetic Association (programs meet standards for traditional baccalaureate programs in field of nutrition or dietetics)
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 Board of Examiners in Speech Pathology and Audiology
Council on Rehabilitation Education (Rehabilitation Counseling program)
Council on Social Work Education
National Association of Schools of Art and Design
Federal Aviation Administration (Aviation Maintenance Technology and Aviation Flight programs)
Foundation for Interior Design Education Research
Illinois Office of Education
 Superintendent of Education
 State Teacher Certification Board
 Illinois State Board of Education
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
Liaison Committee on Medical Education of the Joint Review Committee on Education in Radiologic Technology 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)
National Athletic Trainers Association
National Recreation and Parks Association (National Accreditation Council)
University Council for Vocational Education
National Collegiate Honors Council
Upper Midwest Honors Council
Honors Council of the Illinois Region
National Association of Schools of Public Affairs and Administration
American Institute of Professional Geologists
Association of Research Libraries
The Association of American University Presses
National League for Nursing
CAHEA and the Joint Review Committee for Respiratory Therapy Education
American Association of Airport Executives (AAE)
National Fire Protection Association
Western Association Accreditation
State Agency Approval (Licensed and/or Accredited)--Arizona, California, Colorado, Florida, Georgia, Illinois, Maryland, Nebraska, North Carolina, and Tennessee
Photo/Marketing Association International
American Library Association

UNDERGRADUATE CURRICULA AND COURSES

Accounting
 Administration of Justice
 African Studies¹
 Aging Studies¹
 Agribusiness Economics
 Agricultural Education
 Agricultural Education & Mechanization
 Agriculture, General
 Allied Health Careers Specialties*
 Animal Industries
 Anthropology
 Aquatics^{1,4}
 Architectural Technology*
 Art
 Asian Studies¹
 Automotive Technology*
 Aviation Flight*
 Aviation Maintenance Technology*
 Aviation Management
 Avionics Technology*
 Biological Sciences
 Black American Studies¹
 Botany
 Business and Administration
 Business Economics
 Business Education
 Career Development
 Chemistry
 Chinese^{1,3}
 Cinema and Photography
 Civil Engineering
 Classical Civilization¹
 Classics
 Clothing and Textiles
 Coaching^{1,4}
 Commercial Graphics - Design*
 Communication Disorders and Sciences
 Community Development¹
 Comparative Literature¹
 Computer Science
 Construction Technology
 Consumer Economics and Family Management
 Consumer Studies¹
 Dental Hygiene*
 Dental Technology*
 Design
 Early Childhood
 Earth Science¹
 East Asian Civilizations^{1,3}
 Economics
 Educational Media¹
 Electrical Engineering
 Electronic Data Processing*
 Electronics Management
 Electronics Technology*
 Elementary Education
 Engineering
 Engineering Technology
 English
 Equine Studies¹
 Finance

Pre-Professional Programs⁵

Pre-Dentistry
 Pre-Law
 Pre-Medicine
 Pre-Nursing
 Pre-Osteopathy
 Pre-Optometry

Fire Science Management
 Food and Nutrition
 Forestry
 French
 Geography
 Geology
 German
 Greek^{1,3}
 Health Care Management
 Health Education
 History
 Home Economics Education
 Industrial Technology
 Interior Design
 Japanese^{1,3}
 Journalism
 Language Arts (English and Reading)
 Latin^{1,3}
 Law Enforcement
 Linguistics
 Management
 Marketing
 Mathematics
 Mechanical Engineering
 Microbiology
 Mining Engineering
 Mortuary Science and Funeral Service*
 Museum Studies¹
 Music
 Occupational Education
 Paralegal Studies for Legal Assistants
 Philosophy
 Photographic Production Technology*
 Physical Education
 Physical Therapist Assistant*
 Physics
 Physiology
 Plant and Soil Science
 Political Science
 Psychology
 Radio-Television
 Radiologic Technology*
 Recreation
 Religious Studies
 Respiratory Therapy Technology*
 Russian
 Secretarial and Office Specialties*
 Social Studies
 Social Work
 Sociology
 Spanish
 Special Major
 Special Education
 Speech Communication
 Theater
 Tool and Manufacturing Technology*
 Uncommon Languages^{1,2}
 University Studies
 Women's Studies¹
 Zoology

Pre-Pharmacy
 Pre-Physical Therapy
 Pre-Podiatry
 Pre-Theology
 Pre-Veterinary Science

¹Minor only.

²Described under Linguistics.

³Described under Foreign Languages.

⁴Described under Physical Education.

⁵Preparatory 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
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 SIU by indicating at the time they write the American College Test (ACT) that their test scores should be sent to Southern Illinois University (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 SIU (code 1144) at the time they registered for the exam must request that supplemental scores be sent to SIU 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 SIU 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.

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

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

All students transferring from a non-regionally accredited institution must also submit a high school record and ACT scores regardless of hours completed, degrees earned, or grade point average. All students 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 assists high schools and community colleges by providing representatives for college day and night programs, counseling prospective students, visiting schools and colleges on request, distributing university materials, and providing general assistance to counselors. Counselors should feel free to contact members of this staff 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

Tom McGinnis	Director
George Mandis	Counselor
Debbie Perry	Counselor
Cathy Walsh	Counselor
Bob Quane (Chicago Area)	Counselor
Brenda Major	Counselor
Tammy Gormley	Counselor
Kim Meyer	Counselor
Dianna King	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 Undergraduate Academic Services, pre-major advisement or selected other academic units.

ADMISSION OF FRESHMEN TO BACCALAUREATE PROGRAMS

For engineering majors, see new engineering admission policy below.

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 SIU. 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 a special admission program, The Center for Basic Skills. All applicants who are not admissible by the above requirements will have their applications reviewed automatically for admission to the special program.

Applicants interested in programs offered by the College of Engineering and Technology should see the 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 Allied Health Career Specialties, Commercial Graphics-Design, Dental Hygiene, Dental Technology, Mortuary Science and Funeral Service, or Physical Therapist Assistant programs must meet University entrance requirements as well as those of the specific programs. Admission to SIU 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.

Allied Health Careers Specialties (including radiologic technology and respiratory therapy) applicants must be admitted to the University by February 21, 1986.

Dental Hygiene applicants must be admitted to the University and submit all materials by January 10, 1986 for Fall 1986.

Physical Therapist Assistant applicants must be admitted to the University by January 31, 1986 for consideration for Fall 1986.

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

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 Undergraduate Academic Services 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

For engineering majors, see new engineering admission policy below.

Students who have an overall 'C' average as computed by SIU, 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 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 the 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

Advancement to the teacher education certification program requires that the following specific criteria be met. A student is eligible to make formal application to the program with:

1. A minimum of 30 semester hours of completed work including Education 201;
2. An overall grade point average of at least 2.25 (4.0 scale).
3. Completion of GE-D 101 and GE-D 117, 118 or 119 and one additional English course (GE-C or Department of English) with a grade of 'C' or better.
4. Completion with a minimum grade of 'C' since entering ninth grade including work taken in college of:
 - a. four years of English and communication skills. Each three semester hour college composition or writing course equates to one year of high school English. At least three of the four years must be English.
 - b. two years of mathematics sufficient to include the course content of Algebra I. Computer science courses may not be used to satisfy any part of this requirement.
 - c. two years of science. Courses from either the physical or biological sciences will be accepted toward this requirement.
 - d. two years of social studies.

Applications must be submitted in person and must be accompanied by verification that all pre-requisites have been met. Students are responsible for submitting high school transcripts to the Office of Teacher Education at the time of application. Applications received through the mail will not be considered. Application forms as well as information about the teacher education program are available from the coordinator of teacher education services in the Office of Teacher Education in the Wham Education Building, room 135.

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

program. In order to remain in the program and complete the requirements for graduation and teacher certification, the student must attain a 2.50 grade point average in the major and receive departmental approval. Both of these requirements must be met before final clearance can be given for a student teaching assignment. Students who are not able to meet the criteria of the teacher education program or their major department will be counseled about alternative programs.

ADMISSION POLICY TO THE COLLEGE OF ENGINEERING AND TECHNOLOGY

The following requirements apply to students seeking admission to Engineering with specializations in Engineering Mechanics and Thermal and Environmental Engineering as well as the new majors in Civil Engineering, Electrical Engineering, Mechanical Engineering and Mining Engineering. They do not apply to students applying for admission to Engineering Technology or Industrial Technology.

Freshmen

Beginning freshmen must rank in the top quarter of their high school graduating class and have an ACT standard composite score of 18 to 22 or rank in the top half of their graduating class and have an ACT standard composite score of 23 or higher. In addition, students must have completed prior to high school graduation the following courses before they will be allowed to enroll in an engineering major: three years of English (a fourth year is recommended); three and one-half years of mathematics in which there are two years of algebra, one year of geometry, and one-half year of trigonometry; and two years of science of which it is recommended there is one year of chemistry and one year of physics. Students who do not meet these requirements but do meet regular University admission requirements will be admitted with a pre-engineering major classification and be advised as to an appropriate program during the first year. These students may be admitted to one of the technology programs in the College but cannot change their major to engineering until they have satisfied the requirements for transfer students as stated below.

Transfer Students

Transfer students who have completed fewer than 26 semester hours (39 quarter) hours must have an overall 'C' average and meet the admission requirements of beginning freshmen. Students who have completed 26 semester hours or more must have an overall average of 2.5 (4.0 scale) to be admitted without a record review as detailed below. A student's grade point average is determined by computing all earned grades including repeated courses. Students must also complete or have completed successfully the courses specified in the Retention Policy in Chapter 3 of the Undergraduate Catalog by the College of Engineering and Technology before they can enroll in upper division engineering courses.

Students who have earned 26 semester hours or more of transfer credit and have a grade point average of 2.0 to 2.49 will have their records reviewed by the College of Engineering and Technology. These students should arrange to have their ACT scores and high school records submitted to the Admissions Office at the time they apply for admission to the University. These students will initially be admitted provisionally to the College to assist them in completing other procedures which require admission to the University such as applying for housing and financial assistance. However, students must understand they may not be approved for final admission to an engineering major and it may be necessary for them to change their program of study.

SIU Students

Students currently enrolled at SIU who have not been admitted to an engineering major must meet the requirements described above to transfer into one of the engineering programs.

International Students

International students must meet admission requirements comparable to those of native students. While admission credentials such as ACT scores and class rank are not generally submitted by international students, students do submit credentials which reflect their achievements in subject areas such as English, mathematics, and science. Therefore, beginning freshmen and transfer students with less than 26 semester hours will be required to submit records which reflect above average achievements in these disciplines in order to be admitted to an engineering program. Transfer students who have earned 26 semester hours or more of transfer credit will be required to have a 2.5 or comparable grade point average. International students will be required to complete successfully courses identified in the Retention Policy in Chapter 3 or the Undergraduate Catalog before they will be permitted to take upper division engineering courses.

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

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

Engineering Technology and Industrial Technology

Admission policies to the engineering technology and industrial technology majors have not changed. However, it is recommended to all students considering entrance to these programs, they should have completed in high school four years of English, three and one-half years of mathematics in which there are two years of algebra, one year of geometry, and one-half year of trigonometry, and two years of science which includes one year of chemistry and one year of physics.

ADMISSION OF INTERNATIONAL STUDENTS

For engineering majors, see new engineering admission policy above.

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 less than two years study in a United States high school, (3) have completed less than two years (60 semester hours) of collegiate training in an accredited United States college or university. Students who have completed their secondary education in a country where English is the native language are required to submit scores from either the American College Test or the Scholastic Aptitude Test.

Students who have acquired immigrant status are also required to demonstrate English proficiency. English proficiency can be demonstrated by successful completion of the TOEFL examination 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. Immigrant students must also submit a photocopy of their green card with the application for admission.

International students whose secondary school and college records are acceptable for admission purposes must also submit TOEFL scores. Students whose TOEFL score is 525 or higher will be granted unconditional admission. Applicants whose TOEFL scores are below 525 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 should address their inquiries to the Office of Admissions and Records, Southern Illinois University, 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 SERVICES

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

ADMISSION OF ADULTS AS UNCLASSIFIED STUDENTS

Adults who have never enrolled in an institution of higher education may enroll in select courses as 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 SIU 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 SIU 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 SIU campus consists of one seventeen story residence hall (Neely Hall-male, female, co-ed), and three four-story triad buildings (Allen, Boomer, and Wright Halls-male, female). Neely houses 816 students and the triads each house 360 students. (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 SIU Campus Lake, consists of eleven halls with each housing approximately 120 students (male, female, co-ed). All buildings are air-conditioned.

CONTRACT COSTS - 1985-86 - All Areas \$1,236/Semester \$2,472/Academic Year
There is an additional \$12.00/year housing activity fee.

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

UNIVERSITY FACILITIES FOR MARRIED STUDENTS

SOUTHERN HILLS

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

EVERGREEN TERRACE

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

MARRIED STUDENT HOUSING COST, 1985-86

Efficiency apartments	\$223/month
Furnished one bedroom	\$243/month
Furnished two bedroom	\$260/month
Unfurnished two bedroom	\$281/month
Unfurnished three bedroom	\$304/month

The University pays all utilities. Interested students should contact Family Housing, Washington Square-B, Southern Illinois University, 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-B, SIU; (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 SIU 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.

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

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

SPECIAL INTEREST GROUPS: Students may request to be assigned to areas where their special interest can be accommodated, such as intensified study areas, 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 in all areas except the University Park triads, for students who have reached sophomore standing.

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 triads which have 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 April 15, and space exists at the time room assignments are made.

REGISTRATION AND ADVISEMENT

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

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

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

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

ADVISEMENT

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

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

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

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.

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.

ADVISEMENT CENTERS

	Area code (618)
Undergraduate Academic Services	453-4351
Pre-Major Advisement, Pre-Nursing	
School of Agriculture	453-3080
College of Business and Administration	536-4431
College of Communications and Fine Arts	453-4308
Art (Allyn)	453-4313
Cinema and Photography (Communications Building)	453-2365
Communication Disorders and Sciences (Communications Building)	453-4301
Design	453-4313
Journalism (Communications Building)	536-3361
Music (Altgeld Hall)	536-7505
Radio-Television (Communications Building)	536-7555
Speech Communication (Communications Building)	453-2291
Theater (Communications Building)	453-5741
College of Education	453-2354
College of Engineering and Technology	453-2262
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, Aviation Flight	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 1985 Fall Semester.

ON-CAMPUS UNDERGRADUATE FEE SCHEDULES

Semester Hours Enrolled	Illinois Residents			Non-Illinois Residents		
	Tuition	Student Fees	Total	Tuition	Student Fees	Total
1	\$ 42.00	\$ 94.33	\$136.33	\$126.00	\$ 94.33	\$220.33
2	84.00	109.40	193.40	252.00	109.40	361.40
3	126.00	124.49	250.49	378.00	124.49	502.49
4	168.00	139.57	307.57	504.00	139.57	643.57
5	210.00	154.64	364.64	630.00	154.64	784.64
6	252.00	169.73	421.73	756.00	169.73	925.73
7	294.00	184.81	478.81	882.00	184.81	1066.81
8	336.00	199.88	535.88	1008.00	199.88	1207.88
9	378.00	214.96	592.96	1134.00	214.96	1348.96
10	420.00	230.04	650.04	1260.00	230.04	1490.04
11	462.00	245.12	707.12	1386.00	245.12	1631.12
12+	504.00	260.20	764.20	1512.00	260.20	1772.20

All students will pay the full Student Medical Benefit Fee of \$75.00, 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 \$1,528.40 per year for tuition and fees (fall and spring semesters). Full time out-of-state (non-residents) students will pay \$3,544.40 per year for tuition and fees.

Total University Charges: Full time Illinois residents can expect to pay up to \$2,484.00 per year in housing costs bringing total University charges to approximately \$4,012.40 per year for room and board, tuition and fees. Full time out-of-state students can expect to pay up to \$2,484.00 per year for housing bringing total University charges to approximately \$6,028.40 per year for tuition and fees, room and board.

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

Personal Expenses: Includes transportation to and from home, entertainment and personal items estimated at \$1,238.00 per year.

FINANCIAL ASSISTANCE

The Office of Student Work and Financial Assistance aids students in seeking monetary assistance to finance their post-secondary education at Southern Illinois University.

A package of financial aid is prepared for those students who qualify. The package may include scholarships, grants, work, and loans. The financial aid package offered is contingent upon both the availability of program funds and each student's demonstrated financial need as determined by the American College Testing Program Family Financial Statement (ACT/FFS) form.

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

SIU distributed over \$50 million in financial assistance last year to approximately 70% of all students. Over 5,000 student workers were employed by the University.

MAJOR FINANCIAL AID PROGRAMS

SIU participates in the major federal, state, and institutionally-funded programs. This includes aid such as: Pell Grant, ISSC Monetary Award, Guaranteed Student Loan, National Direct Student Loan, Student-to-Student Grant, Supplemental Educational Opportunity Grant, and the Student Work Program.

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

Grants. The major grant programs include the Pell Grant and the Supplemental Educational Opportunity Grant. Both of these grants are based on financial need as determined by the ACT/FFS.

Scholarships. The largest scholarship program is the Illinois State Scholarship Commission Monetary Award. This scholarship is also based on need as determined by the ACT/FFS and pays tuition and fees or a portion thereof.

SIU distributes several scholarships based on academic achievement to new freshmen and Illinois community college transfer students (associate degree graduates only). These scholarships include the SIU Academic Scholarship, the Presidential Scholars Award, the SIU Foundation Scholars Award and the SIU Foundation Merit Award. Students eligible to receive these award will be contacted directly by the Office of Admissions and Records.

Recipients of merit scholarships are selected each spring semester by academic departments and colleges of the University. Also, a limited number of private scholarships are available during the year in some academic departments. For more information, contact your academic department.

Students interested in seeking a private grant or scholarship should check as many sources as possible including high schools, local clubs and civic organizations, businesses, church groups, alumni organizations, and commercial lending institutions. In addition, public libraries are an excellent source for information on state and private scholarship money.

Loans. The major loan programs include the Guaranteed Student Loan (GSL), the Parental Loan for Undergraduate Students (PLUS), and the National Direct Student Loan (NDSL). For automatic consideration of the NDSL, students must submit a current ACT/FFS. To apply for a GSL or PLUS, students must first obtain the loan application from their hometown bank or local lending institution, and then submit it to Student Work and Financial Assistance for processing. Students must have a current ACT/FFS on file before their loan application can be processed.

Employment. To apply for an on-campus student work job, students must have a current ACT/FFS on file. Students can work a maximum of 20 hours per week at the prevailing minimum wage. Once students arrive on campus, they should review the "Job Listing Board" in the Student Work and Financial Assistance Office. To determine which jobs are of interest to the student, a referral will be given so the student may interview with prospective employers. In addition, a representative is available to give referrals for part-time off-campus jobs. Approximately 3,000 students work off-campus during an academic year.

Other Types of Aid. Veterans, social security, railroad retirement, and civil service retirement benefits are also available to those who qualify. The Financial Aid Opportunities brochure gives more information on these and other financial aid programs.

APPLICATION FOR FINANCIAL ASSISTANCE FOR THE 1986-87 ACADEMIC YEAR

To determine financial need, it is necessary for students with their parents to complete and submit the 1986-87 ACT/Family Financial Statement (ACT/FFS). To have SIU receive a copy of the Need Analysis, students must enclose the ACT processing fee and enter the SIU school code (1144). SIU does not accept the College Scholarship Service Financial Aid Form (CSS/FAF).

The 1986-87 ACT/FFS allows students to apply for the major programs coordinated through the Office of Student Work and Financial Assistance including Pell Grant, ISSC Monetary Award, Student Work, and the SIUC Campus-Based Aid Programs (SEOG, NDSL, STS). Students should complete and the 1986-87 ACT/FFS form as early as possible since Campus-Based Aid funding is limited and distributed to eligible students on a first-come, first-served basis. Priority consideration for Campus-Based Aid will be given to those students who complete and mail their 1986-87 ACT/FFS before April 1, 1986. ACT/FFS forms are available in January and may be obtained from local high schools, community colleges, or from Student Work and Financial Assistance.

Transfer Students. Students who have attended another college or university will be classified as transfer students. Federal regulations require that transfer students, applying for financial aid, must have a Financial Aid Transcript sent to Student Work and Financial Assistance indicating all financial aid received from schools attended previously. Even though students may not have received financial assistance, verification of that fact is required. No aid will be awarded until all Financial Aid Transcripts are received. Financial Aid Transcript forms may be obtained from Student Work and Financial Assistance. Students who receive the National Direct Student Loan, Supplemental Educational Opportunity Grant or student work must reapply for those awards by submitting the 1986-87 ACT/FFS. Students who receive a Guaranteed Student Loan (GSL) or a Parental Loan to Assist Undergraduate Students (PLUS) should contact their lenders. Transfer students who receive Pell Grant must obtain a duplicate set of the Student Aid Report (SAR) from the Pell Grant Program to submit to Student Work and Financial Assistance. Transfer students who receive ISSC awards must change the school name on the Pell Grant Student Aid Report and resubmit to the Pell Grant Program to be forwarded to ISSC. ISSC will recompute and adjust the ISSC award to reflect the cost of attending SIU.

Financial Aid Timetable. After mailing the 1986-87 ACT/FFS, students should expect to receive the following responses:

1. Student Financial Aid Report (SFAR). Two to three weeks after mailing the ACT/FFS, students will receive an SFAR containing information included on the FFS form. Since eligibility for financial aid is based on submission of accurate data, students should carefully review the SFAR for any errors. If necessary, students should correct the SFAR and resubmit to ACT for recalculation. ACT will mail a similar report to the Pell Grant Program, the Illinois State Scholarship Commission, and the institutions listed on the FFS.
2. Student Aid Report (SAR). Approximately six weeks after mailing the ACT/FFS, students will receive an SAR from the Pell Grant Program. The SAR will contain the information included on the FFS and will indicate eligibility status for Pell Grant. Students should review the SAR for errors and, if necessary, make corrections and resubmit to the Pell Grant Program for recalculation. If eligible, students will receive three copies of the SAR, all of which must be submitted to Student Work and Financial Assistance. If not eligible, students will receive two copies of the SAR, one of which should be submitted to Student Work and Financial Assistance. Students should review the SAR for errors and, if necessary, make corrections and resubmit to the Pell Grant Program for recalculation.
3. Illinois State Scholarship Commission Monetary Award Letter (ISSC). Approximately eight weeks after mailing the ACT/FFS, students (Illinois residents only) will receive an award letter from the Illinois State Scholarship Commission indicating eligibility status for the ISSC Monetary Award. Students may retain the Award Letter for their own records.
4. SIU Financial Aid Award Letter. Approximately 90 days after receiving a student's Need Analysis, and assuming the ACT was mailed by the April 1 priority processing date, Student Work and Financial Assistance will mail a Financial Aid Award Letter to students eligible for Campus-Based Aid. This letter is an offer of assistance and must be signed and returned to Student Work and Financial Assistance by the date indicated. Student who do not qualify for Campus-Based Aid may want to consider student work and/or loans. (Students should contact SWFA during the spring semester for summer financial aid information).

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

NOTE: 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: Student Work and Financial Assistance, Woody Hall, B Wing, Third Floor, Southern Illinois University, Carbondale, IL 62901 or call (618) 453-4334.

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

Disabled 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 services are offered including: academic support services, handicapped van transportation, other special transportation and parking arrangements, modified housing, adapted recreational activities, wheelchair repair, and personal attendant referrals. The academic support services include: test proctoring services for students needing additional time or reading or writing assistance to complete regular course exams; pre-enrollment planning for support services; readers; taped texts; special equipment; mobility training for the visually impaired; notetakers, interpreters, special counseling, and communications training for the hearing impaired. The Illinois Department of Rehabilitation Services (IDORS) maintains an on-campus office, and the DSS office has close liaison with IDORS to facilitate admission and enrollment of disabled students sponsored by IDORS. The SIU 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.

Clinical Center Achieve Program, 618-453-2595 (ext. 42)

The Clinical Center Achieve Program is an academic support program for learning disabled students enrolled at SIU. The program is self-supportive and participation is voluntary. Students in the Achieve Program are completely mainstreamed into the regular college curricula. The academic support provided by the Achieve Program is three-fold: (1) Tutorial, (2) Compensatory, and (3) Remedial.

1. Achieve members are computer matched to tutors based on academic strengths/weaknesses and individual course selections.
2. Achieve members are provided with taped textbooks from Recordings for the Blind if their disability is in the area of reading. They are also given the opportunity to take their exams with a proctor at the Achieve Office. Proctored exams may be orally administered or simply untimed depending upon the needs of the individual student.
3. Remedial courses are also available for those desiring to improve their deficit areas. These include: (1) Reading Comprehension strategies, (2) Notetaking/listening skills, and (3) Paragraph/essay writing skills. Participation in remedial courses is not mandatory and often varies from semester to semester depending upon the student's personal schedule and course load.

Students interested in participation in the Achieve Program must apply to the University as well as to the Achieve Program. Early application to the Achieve Program (sophomore-junior year in high school) is highly recommended based on the large number of excess applications each year. Requests for information should be addressed to: Clinical Center Achieve Program, Pulliam Hall #122, SIU, Carbondale, IL 62901.

*Application fee:	\$ 50.00 (one time fee/nonrefundable)
*Diagnostic fee:	\$ 500.00 "
	\$ 550.00
*Fees for academic support:	\$1500.00 (1985 fall semester)
	\$1500.00 (1986 spring semester)
	\$3000.00

Support fees are refundable anytime prior to the beginning of the semester.

*Figures are based on the 1985-86 academic year and subject to change.

Center for English as a Second Language, 618-453-2266

The Center for English as a Second Language offers English language training to non-native speakers of the language. The program runs year round and is administered by and with the Department of Linguistics, an academic unit of the College of Liberal Arts. The students studying at the Center plan in most cases to enter academic programs at the graduate or undergraduate level upon completion of their training. The presence of approximately 150 students every term from a wide variety of cultures adds a significant international presence to the campus. Opportunities are provided for American students to meet with CESL students as a means of enriching their stay at Southern Illinois University at Carbondale.

STUDENT ACTIVITIES

The Office of Student Development (618-453-5714) sponsors a wide array of programs, activities, and services designed to provide students with opportunities that enhance and complement the traditional classroom learning experience.

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

It's MAGIC! The purpose of Project MAGIC (Maximize Academic Growth in College) is to help freshman students derive the greatest benefit from the people, programs, and facilities at SIU. This is done by providing interested freshmen with the opportunity to develop a friendly and helpful relationship with a member of the University faculty or staff - a "mentor" - who can assist the new freshman in developing career and academic goals, in learning how to maximize the educational opportunities available at SIU, and in becoming acclimated to college life.

SIU Parents Association. Open to all parents of SIU students, the newly organized Parents Association provides opportunities for parents to become better informed and more positively involved with their student's education and University experiences. The nominal annual family membership fee entitles parents to a quarterly newsletter, special event programs, and a number of University and community discounts.

Registered Student Organizations. The Professional staff of the Office of Student Development works with the more than 350 Registered Student Organizations (RSO's) on the campus in the areas of fiscal management, organizational matters, and University policies and procedures. Among the 350 RSO's are student governmental groups, coordinating councils, public interest groups, fraternities and sororities, publication and media groups, scholastic and professional honoraries, departmental clubs, special interest groups, religious organizations, and sports and recreation clubs.

Black Affairs Council. Black Affairs Council (BAC) serves as the coordinating and governmental body for the 16 Black student organizations on campus. BAC assumes a major responsibility for programming social, cultural, and educational programs for Black students at SIU.

Inter-Greek Council. Inter-Greek Council (IGC) is the activity coordinating council for the University's 13 social fraternities and 8 social sororities. Sub-councils include the Inter-Fraternity, Panhellenic Council, and Pan-Hellenic Council. The SIU Greek System promotes leadership, scholarship, and service, offering students an opportunity to enhance their University experience. Rush, or membership recruitment, is sponsored at the beginning of fall and spring semesters, as well as at designated times throughout the year.

Mobilization of Volunteer Effort. Mobilization of Volunteer Effort (MOVE) serves as a clearing house to coordinate student volunteer interests with the needs of over 75 service organizations on campus, in Carbondale, and in communities within a six-county area.

Credit for Programming. In cooperation with various academic units, the Office of Student Development provides opportunities for students to receive academic credit for their participation in student activities and student organizations. Opportunities available include leadership development courses for fraternity and sorority members, community service-learning programs for MOVE volunteers, leadership development seminars for orientation Student Life Advisers, and undergraduate and graduate internships.

Rainbow's End Preschool. Rainbow's End is a comprehensive day care, child development center designed to serve the children, ages six weeks to eight years, of SIU students, faculty, and staff members. The center, which is staffed by qualified professionals, is licensed by the Illinois Department of Children and Family Services and is a participant in the State of Illinois Food Reimbursement Program. Rainbow's End is open from 7:30 a.m. to 5:30 p.m. each day the University is in session. Tuition and fees are assessed according to the number of hours for which the child is enrolled and are based upon a sliding parental income scale. Rainbow's End is located at Lakeland School, 925 South Giant City Road in Carbondale, telephone 529-2271.

Touch of Nature, 618-529-4161

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 five major year-round programs. These are conferences for business, industry, educational and other agencies; environmental education workshops; residential camping programs for the young and elderly; wellness lifestyle; advocacy for high-risk populations; and Wilderness Adventure Programs comprised of Spectrum, Underway and Southern Outdoor Adventure Recreation (SOAR). In the summer time, the two camps provide programs for handicapped children and adults, and for 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.

Office of Intramural-Recreational Sports, 618-536-5531

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

INTERCOLLEGIATE ATHLETICS

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

SIU men's program, at one time primarily known nationally for its prominence in non-revenue sports of baseball, cross country, gymnastics, swimming and track and field, suddenly emerged as a football power in 1983 when the Salukis claimed a 13-1 record and a national Division I-AA championship. A vastly improved basketball team followed and the overall program claimed the Missouri Valley Conference's coveted All-Sports championship trophy for the second time since joining the league in 1975. More recently, the Saluki gymnasts finished tenth and the Saluki swimmers sixteenth in NCAA championships.

The past has been kind to the program as well. In 1967, the basketball team won the National Invitation Tournament with Walt Frazier, who later became an all-time all-pro in the NBA, leading the way. One of the NFL's all-time greatest quarterbacks, Jim Hart of the St. Louis Cardinals, had graduated from SIU only a year earlier. SIU's baseball team reached the College World Series three times in the 1970's and Saluki gymnasts have captured four NCAA championships. The 11-sport men's program has produced literally hundreds of All-Americans and more than two dozen Olympians since its turn-around in the early 1960's. Distinguished individuals in sports with Saluki backgrounds are simply too numerous to mention as they cover the professional and national amateur scene from starting--and winning--pitcher in the 1983 All-Star game to winners of Olympic medals.

SIU's intercollegiate program for women, one of the nation's oldest and most respected, is part of the new Gateway Collegiate Athletic Conference that was founded in July, 1982. The GCAC is a ten-school conference that features five Illinois schools--Illinois State, Bradley, Eastern Illinois, Western Illinois and SIU--as well as Wichita State, Southwest Missouri State, Northern Iowa, Indiana State and Drake.

The GCAC has emerged as one of the nation's stronger conferences. Most member schools have had nationally recognized women's programs featuring a broad array of sports for years. In 1984, conference champions were granted automatic berths to the NCAA Division I Nationals in volleyball and basketball.

SIU captured conference championships this past year in tennis, swimming and diving while claiming top three finishes in the league in basketball, volleyball and golf.

In swimming, SIU soared to a fifth place finish at the NCAA Nationals where eleven individuals were accorded All American honors and the school crowned its first national champion in diving. During the season, SIU compiled an 8-1 dual record and captured Gateway and Metro-NIC meets for the third year in a row. SIU also set twelve school records en route to a top ten finish at Nationals for the fourth consecutive year.

In tennis, SIU won its second Gateway title in the last three years. Three Saluki singles players and two doubles teams won conference crowns as SIU upset Wichita State, the defending champions. SIU went 7-1 against Gateway foes during fall/spring, improving its three year worksheet against league foes 25-1.

In golf, SIU had an individual winner in two fall tournaments who was named All-Conference. In volleyball, the Salukis qualified for the GCAC Final Four, had two All-Conference picks, and wound up with a 22-9 record. In basketball, SIU upset 9th-ranked San Diego State to win the Dial Classic, had a unanimous pick for All-Conference, had a second player selected for the National Sports Festival and went 21-7 overall which marks the third straight 20-win season for the Saluki cagers. The field hockey team capped a winning season with a first place showing in the St. Louis Invitational, and in indoor track, the Salukis had a pair of NCAA National qualifiers. In gymnastics, SIU had two NCAA Regional participants.

In the classroom, more than 150 program participants in eleven sports maintained a cumulative GPA of 2.89. In golf, swimming and diving, volleyball and tennis, SIU had team GPA's of 3.05 or better. Moreover, nineteen Saluki athletes were cited by the Gateway Conference for academic excellence.

Intercollegiate Athletics for Women (IAW) actively encourages female students to participate in one or more of its 11 varsity sports. Its athletes annually match talents with the nation's best in basketball, cross country, field hockey, golf, gymnastics, softball, swimming and diving, tennis, indoor and outdoor track and field, and volleyball. Program participants benefit from the personal instruction of an established coaching staff and from the auxiliary services of a professional support staff while enjoying a wide range of competitive opportunities. Additionally, those in the program have daily access to the ultra modern equipment and facilities of Davies Gym, the traditional home of the SIU women's program, where a \$3.25 million renovation was completed in August, 1982.

For SIU 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.

UNIVERSITY RECOGNITION OF HIGH SCHOLASTIC ACHIEVEMENT

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

University Honors Program. The University Honors Program is explained elsewhere in this chapter. Successful participants in all campus honors programs which require maintenance of appropriate minimal scholastic standards, such as the University Honors Program, receive recognition on the academic record at the time the degree is recorded and on the diploma.

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

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

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

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

PROGRAM FLEXIBILITY FOR THE STUDENT

Southern Illinois University at Carbondale offers students a wide variety of programs on all higher educational levels. In addition, the University gives constant attention to methods whereby it might better serve present day educational needs. Described below are opportunities provided students to either earn credit through means other than the traditional 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. To receive credit, students must earn a grade of 3, 4, or 5.

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 222A (4 sem. hrs.) and 222B (4 sem. hrs.)
3. Biology: GE-A 115 (3 sem. hrs.)
4. History: American - GE-B 300 (3 sem. hrs.) and GE-B 301 (3 sem. hrs.)
5. English: GE-D 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

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

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

A student who scores 675 or above on the CLEP English examination will receive five semester hours credit (three semester hours GE-D 101 and two semester hours GE-D 117). A score of 650 to 674 entitles a student to (a) advanced placement in GE-D 120, Freshman Honors Composition, and (b) five semester hours credit upon the satisfactory completion of GE-D 120 with a grade of C or higher (three semester hours GE-D 120 and two semester hours GE-D 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 programs. Such students receive university credit for courses taken during the Early Admission 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 Education Area A courses. The social sciences and history exam includes western civilization, American history, Afro-Asian civilization, world history, political science, economics, anthropology, sociology, social psychology, social studies, and all General Education Area B courses. The humanities exam includes literature--poetry, fiction, drama, non-fiction, creative writing; films and performing arts; art--art appreciation, art history, architecture (past and present); music--classical, modern or jazz; humanities--all general humanities courses; all General Education Area C courses; philosophy--aesthetics, ethics, general survey. The mathematics test includes all college level mathematics.

Students may be exempted from all General Education requirements if they (1) pass all five CLEP General Examinations before entering the University with these minimum scores: natural sciences, social sciences, and humanities--520; English--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.

CREDIT FOR WORK EXPERIENCE

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

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.

UNIVERSITY HONORS PROGRAM

The University Honors Program is designed to enable academically talented undergraduate students to take specially designed and challenging classes; to fulfill University and college requirements by participating in independent studies, colloquia and advanced courses; and to elect interdisciplinary, extracurricular, and cocurricular activities sponsored and administered especially for academically qualified students. Some special scholarships and internships are available to University Scholars.

Honors sponsors and University Honors staff assist qualified students in designing individualized programs tailored to needs, interests, and talents.

Membership in the University Honors Program is granted to entering freshmen who apply for membership, who graduate in the top 10% of their high school graduating class, and who also have an ACT composite score higher than the 89th percentile. The director of honors opportunities may also admit a freshman to membership in the University Honors Program on the basis of other factors, including high school experiences, letters of recommendation, or other evidence of exceptional promise. Membership may be granted to other than entering freshmen who apply for membership and who have a superior academic record such as a cumulative grade point average in the upper 10% for students at a comparable point in their academic studies.

Members of the University Honors Program are designated as University Scholars. Retention in the University Honors Program depends upon maintaining a 3.25 cumulative grade point average in all coursework and no failing grades in honors courses. Students are kept aware of their status in the program at all times.

University Scholars should enroll in an average of one honors experience per semester and maintain normal progress toward a degree. Normal progress is defined as 24 semester hours per academic year. A minimum of 15 hours of honors work is required as a University Scholar. A University Scholar not engaged in a departmental honors program must complete an honors thesis during the senior year. Substitutions for this requirement may be arranged for a student in a major which does not allow curricular flexibility.

University Scholars may complete the General Education requirements of the University by enrolling in advanced courses in departments which offer General Education classes. Individual options may be exercised which fulfill the spirit of General Education requirements but, to challenge the University Scholar, may depart from standard University requirements. University Scholars are permitted to waive some University requirements when they have CLEP scores at an appropriate level.

Students transferring to Southern may join the honors program if they bring a 3.25 average for all previous college work. These students may have already completed many of their general education requirements, but should profit from membership in the program by taking independent study courses or seminars for elective credit. The best way to determine how membership may benefit a student is through discussion with the program staff. Students may participate in trips, use typewriters, computer terminals, and study rooms at the honor house, and perhaps funding for modest projects completed for honors requirements.

Baccalaureate degrees for University Honors Program participants are awarded through the regular degree granting units. Inquiries about the program should be addressed to the director of honors opportunities.

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 Bachelor of Science degrees 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. There are six majors: aviation management, career development, consumer economics and family management, electronics management, fire science management (currently offered off-campus only) and health care management.

The regular University baccalaureate admission and other academic requirements and regulations are followed in the technical careers program.

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 C116, 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 coordinator of Special Majors, Undergraduate Academic Services.

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
Food and Nutrition
Plant and Soil Science

College of Education
Business Teacher Education
Clothing & Textiles
Early Childhood
Home Economics Education
Occupational Education

College of Human Resources
Administration of Justice

College of Engineering and Technology
Industrial Technology

College of Liberal Arts
Paralegal Studies for Legal Assistants

School of Technical Careers
Aviation Management
Fire Science Management (off-campus only)
Health Care Management

Electronics Management
Career Development
Consumer Economics and
Family Management

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 Education 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. Southern Illinois University 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, Office of Admissions and Records, Southern Illinois University, Carbondale, IL 62901. Telephone: 1-618-453-4381 or toll free in Illinois 1-800-642-3531.

INTERNSHIPS IN WASHINGTON

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

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

The Washington Center for Learning Alternatives at Southern Illinois University at Carbondale is coordinated through Undergraduate Academic Services.

OPPORTUNITIES FOR STUDY ABROAD

Southern Illinois University sponsors a number of group programs abroad including the following:

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

Semester Abroad in London: SIU is one of the institutions sponsoring one or two semesters at the London Study Center. The program provides an opportunity for students to enroll in a variety of lower and upper division courses taught by faculty from the cooperating institutions. Course offerings change each semester. Additional information may be obtained at the Office of International Education.

International Student Exchange Program: This exchange program is multilateral and involves one-year placement at 55 study sites worldwide. It is a one-for-one exchange plan under which students pay their normal tuition and fees including room and board, and apply credit earned toward their degree. There are study sites in Africa, Asia, Australia, the British Isles, Canada, Europe, and Latin America. Applicants must be mature, have a minimum grade point average of 3.25, and possess the appropriate foreign language skills. Acceptance into the program is considered an honor bestowed in lieu of a scholarship. Most forms of financial aid can be used for this program. Additional information may be obtained at the Office of International Education.

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

specialized foreign language background. Additional information may be obtained at the Office of International Education.

SIU sponsors a number of exchange programs with institutions of higher education in other countries. These include the following:

Australia: Cumberland College of Health Sciences, Lidcombe, New South Wales (Rehabilitation Institute).

Brazil: Fundacao Educacional de Bauru, Bauru, San Paulo (Rehabilitation Institute).

China: Liaoning University, Shenyant, Liaoning; Northeast Normal University, Changchun, Jilin; Sichuan University, Chengdu. Sichuan.

Eastern Europe: Eastern European Universities Exchange Program (Department of Chemistry and Biochemistry).

France: Inter-University Center for Film and Critical Studies, Paris, France, (Cinema and Photography); University of Caen, Caen, France (Department of Foreign Languages and Literatures).

Germany: University of Hamburg, Hamburg, West Germany, (Department of Foreign Languages and Literatures); University of Mainz, Mainz, West Germany (Department of Foreign Languages and Literatures).

Greece: Agricultural College of Athens, Athens, Greece (Cooperative Fisheries Management Research).

Japan: Kansai University for Foreign Studies, Hirakata, Japan (Department of Foreign Languages and Literatures).

Nepal: Tribhuvan University, Kathmandu, Nepal (Department of Higher Education).

Switzerland: Dolmetscherschule, Zurich Interpreters School, Zurich, Switzerland (Department of Foreign Languages and Literatures).

Virgin Islands: College of the Virgin Islands, St. Thomas, Virgin Islands (Department of Botany).

West Bank: An-Najah National University, Nablus, West Bank via Israel.

Information concerning eligibility, requirements, program offerings, and application deadlines may be obtained at the Office of International Education or the department involved.

SIU provides the opportunity for a student to arrange travel and study abroad on an independent basis. Credit may be earned through a) a department's independent study courses such as readings, individual research, practicum or related types of courses with prior departmental approval, b) a department or college's travel/study course where offered; or c) in the course University 388 with major department or program approval. Additional information is available from the travel/study coordinator, Division of Continuing Education.

SIU also grants credit for programs not sponsored by the University. A student may enroll in a travel/study program conducted by a regionally accredited United States institution and transfer the credit to this University. Credits earned in this manner will be evaluated as electives unless a department, program or the Office of Admissions and Records approved the courses in advance to apply toward specific requirements. Additional information may be obtained from the Office of International Education.

A student may enroll in either a foreign language or an independent location of a foreign institution. It is important that the student check with the Office of Admissions and Records before registering since many foreign institutions are not accredited. Graduate students should check with the Graduate School. Credits earned in this manner will count as electives only unless a department or program approves them to apply toward specific requirements.

SCHOLASTIC STANDARDS

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

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

The significance of the above should be clearly understood by transfer students when studying the general baccalaureate degree requirements. A 2.00 (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 SIU 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 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 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. 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 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. Some academic units have scholastic requirements in addition to the overall University requirements listed here. Students must learn and comply with the University requirements as well as those requirements applying to the individual schools and colleges.

BASIC GRADUATION REQUIREMENTS

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

1. A minimum of 120 semester hours of credit in approved courses.
2. The last 30 semester hours must be earned in residence at SIU 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. 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 or at any other approved four-year institution, except that the residence requirement must be met. Credit for work experience, CLEP, military credit, and proficiency examination credit awarded by an accredited senior level institution are counted toward the 60 hour requirement.
2. An associate degree in a baccalaureate-oriented program from an accredited institution will be accepted as meeting all of the General Education requirements of Southern Illinois University. The degree will not, however, waive specific academic unit or major and minor requirements which may be offered via General Education courses.

UNIT OF CREDIT

Southern Illinois University 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 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 EDUCATION FOR THE TRANSFER STUDENT

A transfer student with an associate degree in a baccalaureate oriented program from an accredited Illinois two-year institution will be accepted as meeting all of the General Education requirements of Southern Illinois University. 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. The degree will not, however, waive specific academic unit or major and minor requirements which may be offered via General Education courses. A transfer student without this degree who expects to graduate from Southern Illinois University must meet the General Education requirements. These requirements need not be completed prior to transfer but must be fulfilled to meet the general graduation requirements.

NEW General Education Requirements -- For students who begin college Fall 1985 or later.

AREA A: Our Physical Environment and Biological Inheritance 9

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

1. GE-A 101 or GE-A 106 or GE-A 110
2. GE-A 115 or GE-A 117 or GE-A 118

Elective: One additional course selected from any other courses offered in GE-A.

AREA B: Our Social Inheritance and Social Responsibilities 9

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

1. GE-B 103 or GE-B 104 or GE-B 105
2. GE-B 211 or GE-B 212
3. GE-B 108 or GE-B 202

Elective: One additional course selected from any other courses offered in GE-B.

AREA C: Our Insights and Appreciations 9

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

1. GE-C 100 or GE-C 101
2. GE-C 102 or GE-C 208
3. GE-C 122 or GE-C 330

Elective: One additional course selected from any other courses offered in GE-C.

Additional coursework from Areas A, B, or C 3

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

AREA D: Organization and Communication of Ideas 11

Composition: GE-D 101 and GE-D 117, GE-D 118, or GE-D 119 5

GE-D 120, if completed with a grade of C or better, will also complete the composition requirement.

Speech: GE-D 152 or GE-D 153 3

Mathematics: GE-D 107 3

Mathematics 114 will also complete the mathematics requirement.

AREA E: Human Health and Well Being 4

GE-E 107 or GE-E 201 or GE-D 236 2

Two hours selected from physical education activity courses offered in GE-E 2

TOTAL 45

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

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

The General Education 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 coursework from Areas A, B, and/or C 3

AREA D Organization and Communication of Ideas 11

AREA E Human Health and Well Being 4

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 coursework from at least 3 different disciplines in each Area. The remaining 3 semester hours may include coursework from any one of Areas A, B, or C, or from any combination of these three Areas.

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

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

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

Course-Hours

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

Area B: Our Social Inheritance and Social Responsibilities (GE-B)

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

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

Course-Hours

102	3	The Western World
103	3	Geography of the Human Environment
104	3	The Human Experience: Anthropology
105	3	The Contemporary World
108	3	The Sociological Perspective
112	3	Comparative Economic Systems
202	3	Introduction to Psychology
205	3	Consumer Decision-Making
211	3	Contemporary Economics
212	3	Introduction to American Government and Politics
215	3	Comparative Race and Ethnic Relations
221	3	Survival of Man
250	3	Introduction to Comparative Government and Politics
262	3	Marriage and Family in Contemporary Society
301	3	Modern America from 1877 to the Present

Area C: Our Insights and Appreciations (GE-C)

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

Area D: Organization and Communication of Ideas (GE-D)

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 SIU.

Course-Hours

101	3	English Composition
107	3	Intermediate Algebra
117	2	Expository Writing
118	2	Technical Report Writing
119	2	Creative Writing
120	3	Freshman Honors Composition
152	3	Interpersonal Communication
153	3	Public Speaking

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

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
107	2	Life, Leisure and Recreation
*114	1 to 4	Intermediate Individual and Dual Activities
201	2	Healthful Living
236	2	Nutritional Ecology

*Consult SIU Undergraduate Catalog p. 91-92 to determine various activities.

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

Miscellaneous

The preceding General Education requirements are not applicable to community college transfer students who have received an associate degree within 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 Education requirements by making certain approved substitutions of departmental courses for specified General Education courses.

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

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

APPROVED SUBSTITUTES

The departmental courses which have been approved as substitutions for General Education courses are listed below. In no case does the departmental course substitute for more credit hours than the credit hours allowed in the comparable General Education course. Community colleges who have comparable courses are encouraged to submit course descriptions for departmental approval.

General Education Course	Approved Substitutes
GE-A 101-3	One of: Physics 203, 205 or 3 semester hours of technical physics.
GE-A 106-3	One of: Chemistry 115, 140, 222, or 4 semester hours of technical chemistry
GE-A 110-3	Geology 220
GE-A 115-3	One of: Biology 306, 308, 309
GE-A 240-3	Biology 307
GE-A 330-3	Military Credit for Meteorology
GE-A unassigned-1 to 9	One to 9 semester hours from University Honors 251a and/or 351a
GE-B 103-3	Geography 300
GE-B 211-3	One of: Agribusiness Economics 204; Economics 214, 215
GE-B unassigned-1 to 9	One to 9 semester hours from University Honors 251b and/or 351b
GE-C 100-3	Music 101 or three hours of 102, 013, 014, 017, 020, 021, or 022
GE-C 101-3	Art 100
GE-C 204-3	Art 207
GE-C Foreign Language-4	Foreign Language (NOTE: A student may substitute on an hour-for-hour basis to a maximum of 4 hours in GE-C elective area).
GE-C unassigned-1 to 9	1 to 9 semester hours from University Honors 251c and/or 351c
GE-D 101-3	Linguistics 101
GE-D 107-3	One of: Mathematics 108, 109, 111, 114, 116, 117, 139, 140, 150, 151, 159, 250, 259, or 4 semester hours of technical mathematics at the level of intermediate algebra
GE-D 117-2	Linguistics 102
GE-D 118-2	One of: Administrative Sciences 202, Linguistics 103, or 2 semester hours of technical writing
GE-E 101-114-1 to 2	Four semester hours from: Physical Education 115, 116, 117, 118, 119, 120, 170
GE-E unassigned-1 to 2	1 to 2 semester hours from University Honors 251e and/or 351e
GE-E 201-2	Health Education 350
GE-E activity unassigned-1 to 2	ROTC Field Training

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

EVALUATION OF TRANSFER CREDIT

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

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

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

Transcripts and Test Scores

Transfer students who have taken college level work at other institutions must have official transcripts of all work forwarded to the Admissions 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 SIU. 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 of active duty and honorable discharge allows six semester hours including two in physical education, two in health education, and two in aerospace studies.

Service of six months to a year may result in two hours in freshman aerospace studies only.

Service of less than six months allows no college 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 include an entering transfer's grade point average together with the SIU GPA; 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 SIU. Pre-professional students who will be on campus longer than two years should enroll as double majors and enter the college which grants a degree in the second major. Students without an additional major will be enrolled in the College of Liberal Arts (pre-law and pre-theology majors), Undergraduate Academic Services (pre-nursing majors), or College of Science (other health career majors). Pre-professional programs are available in the following areas:

Dentistry (3 or 4 years)	Pharmacy (1 or 2 years)
Law (3 or 4 years)	Physical Therapy (2 or 3 years)
Medicine (including Osteopathic) (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 engineering and law (Carbondale), medicine (Carbondale and Springfield), and dentistry and nursing (Edwardsville).

Pre-professional students may, subject to certain conditions, obtain a bachelor's degree after three years of work (90 semester hours) at SIU plus one or more years of work in a professional school. During the three years at SIU, 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, SIU 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.

UNDERGRADUATE ACADEMIC SERVICES

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

General Education

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

The student is required to have a total of 45 hours in the five areas of General Education. There is considerable flexibility in the program and the transfer student should have little difficulty in meeting the General Education 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 Education 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, Undergraduate Academic Services.

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 Special Major coordinator, Undergraduate Academic Services.

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 University Studies Office. 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 offers special academic assistance through a non-credit learning skills class and laboratory, academic monitoring and counseling, small group and individual tutorials. Although participation for some students may be required, any student is welcome to take advantage of this special service at no cost. Students should direct inquiries to the director of Undergraduate Academic Services.

SCHOOL OF AGRICULTURE

You would like to be a part of the exciting, dynamic, fast-growing industry that is America's agriculture, but you are not sure where you might fit? Be assured this diverse and complex industry has room for you, and it needs your abilities.

For more than a century, America has been moving agricultural jobs from the farms to the cities, the suburbs and rural communities. As a result, the opportunities in agriculture are probably broader than in any other area of employment. No matter what your interests or the type of career you hope to follow, you can find your place in agriculture.

This is true whether you have a farm or ranch background or simply a feel for agriculture, whether you have a leaning toward finance and management or education and research, whether you are driven to improve food production and distribution to feed the world's millions of people or you simply want to earn a good living doing what you really like to do in an area where you really like to live.

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 food and natural resource industries.

MAJORS OFFERED:

Agribusiness Economics	Animal Industries
Agricultural Education	Food and Nutrition
Agricultural Education & Mechanization	Forestry
Agriculture General	Plant and Soil Science

FACILITIES: The offices, classrooms and laboratories for all programs in the School of Agriculture except food and nutrition are located in the Agriculture Building. Those for food and nutrition are located in Quigley Hall. 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 SIU in lieu of equivalent courses. For transfer students wishing to pursue a concentration in one of the agricultural or forestry areas, courses prior to entering SIU 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.

Persons who have an Associate in Applied Science degree in an occupationally oriented program should inquire into the possibilities of entering the School of Agriculture under the Capstone Program. 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 Southern Illinois University Carbondale, Illinois 62901	Admissions Office Woody Hall Phone 618-453-4381
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COLLEGE OF BUSINESS AND ADMINISTRATION

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

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

DEGREES OFFERED: Bachelor of Science.

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

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

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

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: GE-D 101; GE-B 202; Mathematics 116 and 117 or 139 and 140; Economics 214, Accounting 220; and Management 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.¹

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 ²	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.

¹At least 40% of the coursework of all business majors, but not more than 60%, must be in Economics and Business prefix courses.

²Computer 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, COBOL, RPG, PASCAL, 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.

Three service units are housed in the College:

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

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

The University Museum.

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

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

DEGREES OFFERED:

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

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

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

FOR FURTHER INFORMATION

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

Admissions Office
Woody Hall
Phone 618-453-4381

Southern Illinois University
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 and 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 310, 311, 314, 315 and 316, and are primarily planned for the junior and senior professional level of the program. Articulation of courses with Illinois community colleges provides a mechanism for some of the clock hours to be obtained prior to entering SIU, i.e., equivalents of Education 311 and 314. Prospective students are encouraged to check for articulation of these courses prior to enrollment in similar community college courses.

Students are also required to have the equivalent of a three semester hour course on the characteristics of handicapped children and youth, and methodology for teaching the handicapped including the learning disabled. These requirements are also included in EDUC 310, 311, 314, 315 and 316 as well as methods and clinical experiences. For students who attended community colleges which have not articulated this requirement in equivalent courses, SPE 408 may be taken at SIU. 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
Carbondale, Illinois 62901

SECONDARY EDUCATION

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

<u>Teaching Area</u>	<u>Major</u>	<u>Minor</u> ¹
Agricultural Education	X	
Art ²	X	
Biological Sciences	X	X
Black American Studies		X
Botany ³	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 ⁴	X	
History	X	X
Home Economics Education	X	
Language Arts (English and Reading)	X	
Mathematics	X	X
Microbiology		X
Music ²	X	X
Occupational Education		
(Health Occupations)	X	
(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 ³	X	X

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

² K-12 certification which includes secondary.

³ 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.

⁴ 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.

ACCREDITATION: North Central Association of Colleges and Secondary Schools; the Engineering Activities Board of the Accreditation Board for Engineering and Technology (ABET) for the Engineering major, and the Technology Activities Board of ABET for the Engineering Technology major; National Association of Industrial Technology for Industrial Technology.

DEGREES OFFERED:

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

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

ADMISSION TO ENGINEERING PROGRAMS: New admission requirements for freshmen, transfer, and international students are in effect beginning the Summer 1985 semester. See section under "Admission Policies and Requirements" for details.

RETENTION POLICY IN THE COLLEGE OF ENGINEERING AND TECHNOLOGY

ENGINEERING

1. To advance to upper division courses and be classified under a specific departmental major, an 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.
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, an 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 115 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 technology 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, an 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; IT 105 and CS 212.
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.

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

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

FOR FURTHER INFORMATION: contact Dean, College of Engineering and Technology, telephone 618-453-4321 or the Admissions Office, Woody Hall, 618-453-4381.

COLLEGE OF HUMAN RESOURCES

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

Administration of Justice
Social Work

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 for Legal Assistants
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	Linguistics	Speech Communication ²
East Asian Civilizations ¹	Mathematics	Uncommon Languages ¹
Economics	Museum Studies ¹	

¹Minor only.

²Liberal Arts major, not professional major.

College Requirements Effective Fall, 1978

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

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

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

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	Podiatry
Medicine	Pharmacy
Optometry	Physical Therapy
Osteopathy	Veterinary Medicine

Academic Requirements:

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

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

FOREIGN LANGUAGE: The foreign language requirement can be met by one of the following: (a) passing an 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. If the language is presently taught at SIU, academic credit may be earned. If the language is not presently taught at SIU, 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 SIU may qualify without credit for partial or full satisfaction of the science foreign language requirement under certain circumstances, including formal recommendation by the student's major department and availability of an examiner and examination materials within the Department of Foreign Languages and Literatures. For information, the student should consult the College of Science advisement center.

Four hours of foreign language may substitute for credit in GE-C provided the student has taken GE-C courses totalling five hours in two other disciplines. Any additional hours of foreign language may be counted toward the three hours of additional coursework required in areas A/B/C.

MATHEMATICS: The mathematics requirement can be met by a) passing Mathematics 108 or 109, or its equivalent or Mathematics 140 (4), or b) completing three years of high school mathematics with no grade lower than a 'C' and achieving a score on the University's Mathematics Placement Test which allows the student to enroll directly into Mathematics 150.

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

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

SCHOOL OF TECHNICAL CAREERS

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.

Associate in Applied Science Degree Programs:

Allied Health Careers Specialties	Electronic Data Processing
Architectural Technology	Electronics Technology
Associate Degree in Nursing	Law Enforcement
Automotive Technology	Photographic Production Technology
Aviation Maintenance Technology	Mortuary Science and Funeral Service
Avionics Technology	Physical Therapist Assistant
Commercial Graphics-Design	Radiologic Technology
Construction Technology--Building	Respiratory Therapy
Dental Hygiene	Secretarial and Office Specialties
Dental Technology	Tool and Manufacturing Technology

Bachelor's Degree Programs:

Aviation Management
Career Development
Consumer Economics and Family Management
Electronics Management
Fire Science Management (off-campus only)
Health Care Management
Interior Design

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 Education requirements by the Office of Admissions and Records after an admission decision has been made. The evaluation toward satisfying of specific curriculum requirements is done by the department or agency directing the specific curriculum.

The General Education program at 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 618-536-6682

Office of Admissions and Records
Woody Hall
Phone 618-453-4381

Southern Illinois University
Carbondale, Illinois 62901

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	Podiatry
Medicine	Pharmacy
Optometry	Physical Therapy
Osteopathy	Veterinary Medicine

Academic Requirements:

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

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

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Architectural Technology	Electronics Technology
Associate Degree in Nursing	Law Enforcement
Automotive Technology	Photographic Production Technology
Aviation Maintenance Technology	Mortuary Science and Funeral Service
Avionics Technology	Physical Therapist Assistant
Commercial Graphics-Design	Radiologic Technology
Construction Technology--Building	Respiratory Therapy
Dental Hygiene	Secretarial and Office Specialties
Dental Technology	Tool and Manufacturing Technology

Bachelor's Degree Programs:

Aviation Management
Career Development
Consumer Economics and Family Management
Electronics Management
Fire Science Management (off-campus only)
Health Care Management
Interior Design

Organizations

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For Further Information

Dean
School of Technical Careers
Phone 618-536-6682

Office of Admissions and Records
Woody Hall
Phone 618-453-4381

Southern Illinois University
Carbondale, Illinois 62901

THE GRADUATE SCHOOL

The primary concern of the Graduate School is graduate instruction and research at Southern Illinois University. 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 58 programs, the specialist degree in three areas, and the doctoral degree through 24 programs. Under the leadership of a graduate faculty of over 1000 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.)	Forestry
Administration of Justice	Geography
Agribusiness Economics	Geology
Agricultural Education & Mechanization	Health Education
Animal Industries	Higher Education
Anthropology	History
Applied Linguistics	Journalism
Art (M.F.A.)	Linguistics
Behavior Analysis and Therapy	Mathematics
Biological Sciences	Microbiology
Botany	Mining Engineering
Business Administration (M.B.A.)	Music (M.Mus.)
Business Education	Occupational Education
Chemistry	Philosophy
Cinema and Photography (M.F.A.)	Physical Education
Communication Disorders and Sciences	Physics
Community Development	Physiology
Computer Science	Plant and Soil Science
Early Childhood Education	Political Science
Economics	Psychology
Educational Administration	Public Affairs (M.P.A.)
Educational Psychology	Recreation
Engineering	Rehabilitation Administration and Services
Civil Engineering and Mechanics	Rehabilitation Counseling
Electrical Engineering	Sociology
Mechanical Engineering & Energy Processes	Special Education
English	Speech Communication/Theater
English as a Foreign Language	Statistics
Foreign Languages & Literatures	Telecommunications
French	Theater (M.F.A.)
German	
Spanish	

Specialist degree programs are available in the fields listed below:

Educational Administration
Educational Psychology
Curriculum and Instruction

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

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

The Graduate School, as a part of Southern Illinois University, 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

Southern Illinois University's School of Law, established in 1973, is fully accredited by the American Bar Association and is a member of the Association of American Law Schools. It is a small law school with approximately 310 students. Roughly, 110 students enter the law school each fall. The student/faculty ratio of 14/1 ranks among the best in the United States. The school is housed in a spacious, modern building which contains the classrooms, law library, legal clinic, faculty offices, and student lounges.

The law school offers an extensive curriculum, emphasizing "skills" courses such as legal writing and research, legal argumentation, trial advocacy, client counseling, etc. The school has an active moot court program and a unique legal clinic in which upperclass students gain practical experience in both civil and criminal cases under the supervision of the clinic director. The school is a leader in the fields of environmental law and computer law.

The law school, in cooperation with the Graduate School, offers concurrent Juris Doctor and Master's degrees in Business Administration, Public Affairs, and Accountancy.

The law library contains 235,000 volumes--more than in over half the academic law libraries in the country--as well as two computer-assisted research systems (LEXIS and Westlaw).

SIU law graduates perform exceptionally well on the Illinois Bar Exam. The pass rate of graduates for the July 1984 exam was 92% (compared with an overall state pass rate of 87%).

The law school's graduates regularly secure law-related jobs throughout Illinois and the nation. The Placement Office provides a full range of services from resume preparation to on-campus interviews. Over 90% of the 1984 law graduates were placed within six months of graduation.

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

Scott H. Nichols, Director of Admissions
School of Law
Southern Illinois University
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 with special emphasis on primary care.

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

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

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

or

Office of Medical Student Affairs
Lindegren Hall
School of Medicine
Southern Illinois University
Carbondale, IL 62901

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

AEROSPACE STUDIES (AFROTC)

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

Any student is eligible for membership in the Professional Officer Corps, although most of our candidates are selected from the sophomore level cadets each year. A student who competes successfully for POC membership at a later point in his or her academic years must remain a full-time student during his two year membership in the POC. This full-time status may be at the undergraduate or graduate level.

General Military Course (GMC)

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

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 SIU AFROTC regarding exceptions to the rule. A course in mathematical reasoning must be taken prior to commissioning.

Obligations

The GMC cadet is not obligated at any time. Cadets entering the POC must 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: Air Force ROTC has two types of scholarships available. These are directed almost exclusively to highly qualified cadets in four, three and one-half, three, two and one-half, and two year increments. These are directed almost exclusively at the engineering and science/technical fields of study. Any recipient of such a scholarship must agree to complete successfully at least one semester of a major Indo-European or Asian language prior to commissioning. The second scholarship is funded by the state of Illinois, and amounts to a tuition waiver. This is available to cadets regardless of academic major and is awarded through the department for academic excellence to students enrolled/accepted into the ROTC program at SIU. Cadets who have attended Illinois state junior colleges and are currently enrolled in SIU's ROTC courses may also be eligible for a tuition scholarship.

Veterans Commissioning Program

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

Special Note to Counselors:

This program is available to all majors. For those applicants who have goals of becoming a pilot, navigator, or missile officer, any academic major is viable. We do, however, have a special need for engineering, mathematics, chemistry, computer science, and physics majors. Since a mathematics background is preferable for any POC member, a student may be able to improve his or her opportunities for selection by completing certain calculus courses in addition to his or her normal curriculum. This is true regardless of the major. All academic work completed since graduation from high school will be evaluated.

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 Army 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 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 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. The rifle team, a competitive shooting team, is also open to selected Army Military Science cadets.

The Army Military Science department is located in Kesnar Hall, Bldg. 112, Small Group Housing; telephone 618-453-5786.

ENTRY LEVEL JOB TITLES

WHAT DO I DO WITH A DEGREE IN _____?

The Career Planning and Placement Center at SIU 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 SIU students to seek additional information about career opportunities prior to matriculation and for students to utilize the services of the SIU Career Planning and Placement Center once they are enrolled.

For additional information, please contact the following placement consultants:

Agriculture	Anthony Chavez
Business and Administration	Marilyn DeTomas
Communications and Fine Arts	Valerie Brew Parrish
Cooperative Education	Anthony Chavez
Education	Jane Tierney
Engineering and Technology	Michael Murray
Human Resources	Valerie Brew Parrish
Liberal Arts	Barbara Costello
Science	Leslye Ellison
School of Technical Careers	Frank Klein
International Placement	Frank Klein

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

ACCOUNTING

College of Business and Administration
(Bachelor of Science)

Dr. Frederick Wu, Chairperson
Telephone - 618-453-2289
Henry J. Rehn Hall, 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
*GE-B 202	Introduction to Psychology	-	3
GE-C-3 or	Humanities (select) ¹ or Human Health and		
GE-E-2	Well Being (select) ¹	3 (2)	-
GE-C	Humanities (select) ¹	-	3
*GE-D 101	English Composition	3	-
MGT 202	Administrative Communications ²	-	3
*MGT 208	Interpretation of Business Data	-	4
*MATH 116-5 or	Finite Mathematics & Algebra or		
139-3	Finite Mathematics	<u>3 (5)</u> 14-17	<u>-</u> 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-C-3 or	Humanities (select) ¹ or Human Health and		
GE-E-2	Well Being (select) ¹	3 (2)	-
GE-A/B/C/	General Education Electives	-	3
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or	Intro. to Computer Programming (Pascal) or		
EDP 217	Computing for Business Admin. (Fortran)	-	3
*ECON 214, 215	Economics, Macro, Micro ³	3	3
*MATH 117-5 or	Finite Mathematics & Calculus or Short		
140-4	Course in Calculus	<u>4 (5)</u> 16	<u>-</u> 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 Education for the Transfer Student.

²MGT 202 substitutes for GE-D 118

³ECON 214 or 215 counts toward GE-B 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 SIU accounting courses for graduation. A 'C' or better is required in all prerequisite accounting courses. This does not apply to Accounting 220, the prerequisite for Accounting 230, for non-accounting majors.

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

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

Five areas of concentration--Law Enforcement, Correctional Program Services, Correctional Management, Private Security 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>
GE-A	Sciences (select) ¹	3	3
GE-B	Social Sciences (select) ¹	3	3
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health & Well Being (select) ¹	-	2
AJ 201 or 290	Intro to Criminal Justice System or Intro to Criminal Behavior	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Sciences (select) ¹	3	-
GE-B	Social Sciences (select) ¹	-	3
GE-C	Humanities (select) ¹	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health & Well Being (select) ¹	-	2
AJ 201 or AJ 290	Intro to Criminal Justice System or Intro to Criminal Behavior	3	-
GE-A,B,C	Elective (select) ¹	3	-
AJ 310	Intro to Criminal Law	-	3
AJ	Electives	3	3
		<u>15</u>	<u>14</u>

*Required courses for a major in Administration of Justice.

¹ To determine what courses may be taken to satisfy the general education requirements, please refer to the section, General Education. The preceeding two-year outline can be altered to meet the needs and abilities of the students.

Third and Fourth Years

The last two years of a student's program concentrate on specific career or professional objectives. The student must take the Division Requirement of 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, Private Security 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, however, Spanish is recommended.

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

Multi-disciplinary staff with backgrounds in Sociology, Psychology, Education, Law and Rehabilitation provide instruction. Most of the staff also have practical experience in the Criminal Justice System.

Outstanding faculty, nationally recognized program, guest speakers, special programs, international emphasis, and career oriented experience available.

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

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, 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, finance, agricultural prices, agricultural marketing, cooperatives, and agricultural policy.

First Year		Fall	Spring
*GE-A 106	Chemistry for Non-Science Majors	-	3
GE-A	Physical Sciences ²	3	-
GE-B	Social Science ²	-	3
GE-C	Humanities ²	-	3
*GE-D 101, 118	English Composition, Technical Report Writing	3	2
MATH 116	Finite Mathematics and Algebra ³	5	-
GE-E	Human Health and Well Being ²	-	2
*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	16
Second Year		Fall	Spring
*GE-A 115	Introductory Biology	3	-
GE-B	Social Studies ²	3	-
GE-C	Humanities ²	3	3
*GE-D 153	Public Speaking	-	3
GE-E	Human Health and Well Being ²	1	2
*ECON 214, 215	Economics - Macro, Micro	3	3
	Electives ⁵	3	3
		16	14

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

¹There 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.

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

³Mathematics 116 is required in both options. For the Business Economics option, the student should take Math 117, Finite Math and Calculus, during the spring semester, dropping a social science or humanities and the GE-E.

⁴ABE 204 can be substituted as GE-B credit.

⁵Accounting, quantitative methods, or agriculture recommended. Two courses in accounting are desirable.

Third and Fourth Years

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

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

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 EDUCATION

(Vocational)

College of Education
School of Agriculture
(Bachelor of Science)

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

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>
GE-A 115	Biology	3	-
GE-A 106	Chemistry for Non-Science Majors ¹	-	3
GE-B	Social Studies (select)	-	3
GE-C	Humanities (select) ²	-	3
GE-D 101, 118	English Composition, Technical Report Writing ²	3	2
GE-D 107	Intermediate Algebra ⁴	3	-
GE-E 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
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	3	-
GE-B 202	Introduction to Psychology ²	3	-
GE-B 212			
or 301	American Government or US History ²	-	3
GE-C	Literature (select)	-	3
GE-C	Humanities (select) ²	3	-
GE-D 153	Public Speaking ²	3	-
GE-E	P.E. Activity ²	1	1
PLSS 200	Principles of Field Crop Production	-	3
Agriculture	Agricultural electives ⁵	3	3
	Elective	-	3
		16	16

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

²Courses required for certification include GE-B 202; GE-B 212, or 301; GE-D 101, GE-D 117, 118 or 119; GE-D 153; GE-E 100-114 (2 hrs.) GE-E 201; and one additional English course from GE-C, GE-D or department.

³ABE 204 can be substituted for GE-B 211 (Contemporary Economics) or vice versa.

⁴College Algebra recommended.

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

Third and Fourth Years

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

Important - see requirements for entrance into 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.

AGRICULTURAL EDUCATION AND MECHANIZATION
(Agricultural Information)
School of Agriculture
(Bachelor of Science)

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

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>
*GE-A 115	Biology	3	-
*GE-A 106	Chemistry for Non-Science Majors ¹	-	3
GE-B	Social Studies	-	3
GE-C	Humanities ⁴	3	3
*GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra ²	3	-
GE-E	Human Health and Well Being	-	2
ABE 204	Introduction to Ag Economics ³	-	3
ANI 121	Science of Animals that Serve Mankind	3	-
ANI 122	Production and Processing Practices	1	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science ⁴	3	-
*GE-B 108 or 202	The Sociological Perspective or Introduction to Psychology	3	-
GE-B	Social Studies ⁴	-	3
GE-C	Humanities ⁴	-	3
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being	1	-
PLSS 200	Plant and Soil Science Course	-	3
Agriculture	Agriculture Electives	3	3
	Electives	<u>3</u>	<u>3</u>
		<u>16</u>	<u>15</u>

*Required or strongly recommended courses for Agricultural Information specialization.

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

²College Algebra recommended.

³ABE 204 can be substituted as GE-B credit.

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

Third and Fourth Years

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

Agricultural 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: grain elevator operations; farm supply sales; operational positions in the processing industry; power use advisors with electric power supplying agencies and companies; field testing of farm equipment; product education positions; service representatives for the various power and machinery companies; farming; and farm management. Due to the extensive mechanization and technology in agriculture and the related industries employment opportunities are excellent.

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

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
*GE-A 106	Chemistry for Non-Science Majors	-	3
*GE-A 115	Biology	3	-
*ABE 204	Introduction to Ag Economics	-	3
GE-C	Humanities ¹	-	3
*GE-D 101, 118	English Composition, Technical Report Writing	3	2
*MATH 108 & 109	College Algebra and Trigonometry	3	3
GE-E	Human Health and Well Being ¹	2	2
*ANI 121	Science of Animals that Serve Mankind	3	-
*ANI 122	Production and Processing Practices	1	-
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*PHYS 203 a,b	College Physics	3	3
GE-B	Social Studies ¹	3	-
GE-C	Humanities ¹	-	3
*GE-D 153	Public Speaking	-	3
AGEM 171	Land Measurement	1	-
AGEM 172	Agricultural Power and Machinery	1	-
AGEM 173	Agricultural Electrification	1	-
AGEM 174	Agricultural Structures	1	-
PLSS 200	Principles of Field Crop Production	-	3
	Elective	2	-
		<u>15</u>	<u>15</u>

*Required or strongly recommended courses for agricultural mechanization majors.

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

Third and Fourth Years

The last two years of the individual's program concentrate on work that best leads the individual toward his or her professional goals. The individual will complete 42 semester hours in agriculture of which 18 hours are in agricultural mechanization and 28 semester hours of approved free electives. Elective courses may be taken in agriculture or supporting areas.

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

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, and Environmental Studies.

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>
GE-A 118	Introductory Zoology	4	-
GE-B	Social Studies (select) ¹	-	3
GE-C	Humanities (select) ¹	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118, or 119	Writing (select one) ¹	-	2
GE-D 107 or MATH 108 or 109	Intermediate Algebra or College Algebra	3-5	-
ABE 204	Introduction to Agricultural Economics ²	-	3
ANI 121	Science of Animals that Serve Mankind	3	-
ANI 122	Production and Processing Practices	1	-
CHEM 140a	Chemistry	-	4
		<u>14-16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ¹	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 153	Public Speaking	-	3
GE-E	Human Health and Well Being (select) ¹	2	2
PLSS 240	Soil Science	-	4
PLSS 200	Principles of Field Crop Production	3	-
BOT 200	General Botany ³ and Lab	4	-
CHEM 140b	Chemistry	4	-
		<u>16</u>	<u>15</u>

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

²Agribusiness Economics 204 substitutes as GE-B credit as well as counting as hours toward the major.

³Botany 200 substitutes for GE-A requirements.

Agriculture As A Major

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

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

Students in the clinical portion of the program should expect to spend approximately \$100.00 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 coordinator.

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 education the agronomic, agricultural economic, and agricultural engineering phases of agriculture, pre-veterinary medicine, or business as related to animal production.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 118	Zoology	4	-
GE-B	Social Studies ¹	3	3
GE-C	Humanities ¹	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing	-	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being	2	2
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>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies	-	3
GE-C	Humanities	3	3
GE-D 153	Public Speaking	-	3
AG	Agriculture Elective	3	3
CHEM 140a,b	Chemistry ²	4	4
PHSL 208,209	Physiology	4	-
		<u>14</u>	<u>16</u>

¹See General Education for the Transfer Student for information on SIU's General Education requirements.

²Substitutes for GE-A 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, Product Evaluator, 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.

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

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119)	Writing	-	2
GE-E	Human Health and Well Being	2	2
ANI 121	Science of Animals that Serve Mankind	3	-
ANI 122	Production and Processing Practices of Animal Industry	1	-
BIOLOGY	(core suggested)	4	4
MATH 108,109	College Algebra and Trigonometry ¹	3	3
	Agriculture Elective	-	3
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies ⁴	3	3
GE-C	Humanities	-	3
CHEM 222a,b	Introduction to Chemical Principles ²	4	4
PHSL 208, 209	Physiology	4	-
PHYS 203a,b	College Physics ³	3	3
PHYS 253a,b	College Physics Lab	1	1
	Agriculture Elective	-	3
		<u>15</u>	<u>17</u>

¹Substitutes for GE-D 107 (Math).

²Substitutes for GE-A 106 (Chemistry).

³Substitutes for GE-A 101 (Physics).

⁴ABE 204 can be substituted as GE-B credit.

Third and Fourth Years

In addition to completing General Education Requirements, chemistry, biochemistry and microbiology courses, the last two years of a student's program concentrate on 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, Product Evaluator, Animal Control Biologist, Livestock Manager, Animal Nutrition Specialist, Dairy Products Tester, Poultry Manager.

The undergraduate program in anthropology at SIU gives students a broad and well-rounded exposure to the field. A variety of courses is offered in all four sub-fields, that is, archaeology, physical anthropology, linguistics, and socio-cultural anthropology. The core of the program is a set of four courses that introduce the student to the basic questions and issues of the sub-fields and the methods and techniques used to address them.

This core is supplemented by specialty courses, such as those on societies in different geographic areas, economic and ecological anthropology, the anthropology of law, conservation archaeology, applied anthropology, human evolution, human genetics and demography, folklore, religion, language and culture, primate behavior, and origins of civilization. Several applied or "hands-on" courses are available for students to get actual experience in the laboratory and the field, as well as a practicum in museum studies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	2	-
Elective		3	-
		<u>14</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	-
FL	Foreign Language ²	4	4
GE-D 152 or 153	Interpersonal Communications or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ¹	-	2
MATH or CS	Mathematics or Computer Science ³	3	-
ANTH 300D,A	Sociocultural & Physical Anthropology ⁴	3	3
ANTH 300B or C	Linguistic Anthropology or Archaeology	-	3
		<u>16</u>	<u>15</u>

¹ See General Education for the Transfer Student.

² 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 GE-C credit and three hours may be used to complete the three extra hours which are required from GE-A, GE-B, or GE-C. 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.

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

⁴ Sociocultural Anthropology is central to the core curriculum and should be taken as soon as possible. Any two of 300A, B, and C may be taken the second year.

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 SIU faculty and graduate students regularly give informal lunchtime lectures about their current research.

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

ARCHITECTURAL TECHNOLOGY
School of Technical Careers
(Associate in Applied Science)

Edward J. Walchli, A.I.A.
Program Coordinator
Telephone - 618-536-4411
Quigley Hall, Room 411

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

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 153	Public Speaking	-	3
GE-D 101	English Composition	3	-
GE-D 118	Technical Writing	-	2
STC 105a,b	Technical Mathematics	4	-
STC 107a,b	Applied Physics	-	4
ARCH 111	Architectural Drafting	7.5	-
ARCH 112	Architectural Graphics	3.5	-
ARCH 113	Architectural History	3	-
ARCH 124	Architectural Drawings I	-	6
ARCH 125	Architectural Design I	-	4
		<u>21</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 219	Site Work and Planning	2	-
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>18</u>	<u>18</u>
<u>Electives</u>			
ARCH 318	Beginning CAD	3	
ARCH 328	Computer Aided Drafting	3	
ARCH 338	Computer Aided Design	3	
ARCH 354	Architectural Project Development	8	

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

Architectural Drafting and Design As A Major

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

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

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 \$400.00 for equipment and supplies. There are also charges that include field trips, locker use, special presentation materials, etc., that will total approximately \$150.00 over the four semesters.

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

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

L. Brent Kington, Acting Director
Telephone - 618-453-4315
Allyn Building, Room 109

Patricia B. Covington, Head of
Undergraduate Studies
Telephone 618-453-4313
Allyn Building, Room 103

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

Undergraduate course offerings in art history, general studio, and art education lead to the Bachelor of Arts degree. The degree in Art History requires 63 hours in art, in general studio 60 hours in art, and in art education 56 hours in art and 25 hours in professional education.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Science ²	-	3
GE-C	Humanities ¹	3	-
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Expository, Technical Report or Creative Writing	-	2
GE-E	Human Health and Well Being	-	2
ART 100 a & b	Basic Studio	3	3
ART 107	Fundamentals of Art	3	-
ART 110	Intro to Drawing I	3	-
ART 120	Intro to Drawing II	-	3
ART 207	Survey of Art	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science	3	-
GE-B	Social Science Course ²	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
ART 200	Intro to Drawing III	3	-
ART 201	Beginning Painting	-	3
ART 203	Beginning Sculpture	3	-
ART 204, 205 or 206	Beginning Ceramics, Metals, or Fibers	-	3
ART 300	Intermediate Drawing	-	3
ART 346	Survey of 20th Century Art	3	-
EDUC 201	Teacher's Role in Public School Education ³	<u>1</u>	<u>-</u>
		<u>16</u>	<u>15</u>

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

²Students whose major specialization is art education must fulfill certain requirements in General Education. They must have at least a C in GE-D 101 and 117, 118 or 119 and also in their GE-C literature course. From GE-B, they must select GE-B 202, psychology, and GE-B 301, American History, or GE-B 212, American Government. From GE-E, they must select GE-E 201, Healthful Living, and two hours of activity.

³For Art Education specialization only.

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.

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

L. Brent Kington, Director
 Telephone - 618-453-4315
 Allyn Building, Room 109

Patricia B. Covington, Head
 of Undergraduate Studies
 Telephone 618-453-4313
 Allyn Building, Room 103

Undergraduate offerings in art provide introductory and specialized experiences. The courses of study offered leading toward the Bachelor of Fine Arts degree in art requires 75 hours of art.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Science	-	3
GE-C	Humanities ¹	3	-
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Expository, Technical Report or Creative Writing	-	2
GE-E	Human Health and Well Being	-	2
ART 100 a & b	Basic Studio	3	3
ART 107	Fundamentals of Art ¹	3	-
ART 110	Intro to Drawing I	3	-
ART 120	Intro to Drawing II	-	3
ART 207	Survey of Art ¹	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science	3	-
GE-B	Social Science Course	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 152 or 153	Interpersonal Communications or Public Speaking	-	3
ART 200	Intro to Drawing III	3	-
ART 201	Beginning Painting	-	3
ART 203	Beginning Sculpture	3	-
ART 204, 205 or 206	Beginning Ceramics, Metals, or Fibers	-	3
ART 300	Intermediate Drawing	-	3
ART 346	Survey of 20th Century Art	3	-
		<u>15</u>	<u>15</u>

¹ All specializations in the School of Art receive 6 hours of GE-C substitution for Art 100 a or b and Art 207.

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 Rickert-Ziebold Trust Award of \$20,000 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 SIU.

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, Illustrator.

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

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

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

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

First Year		Fall	Spring
GE-D 101	English Composition	3	-
GE-D 153	Public Speaking	-	3
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	-
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
		20	20
Second Year		Fall	Spring
GE-B 202	Introduction to Psychology	-	3
AUT *	Automotive Lab & Theory	15	15
STC 107a,b	Applied Physics	4	-
STC 102	Technical Report Writing	-	2
		19	20

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

	Lab	Theory
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
Brakes and Suspension Systems	AUT 207-4.5	AUT 227-3
Engine Rebuilding	AUT 208-4.5	AUT 228-3
Engine Electronics	AUT 209-4.5	AUT 229-3
Diesel Fuel and Electrical Systems	AUT 210-4.5	AUT 230-3

A TWO YEAR ASSOCIATE DEGREE COOPERATIVE PROGRAM AUTOMOTIVE SERVICE EDUCATIONAL PROGRAM

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

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

<u>First Year</u>		<u>Credit</u>	<u>Hours</u>	<u>Weeks</u>
AUT 125	Engine Electrical	3	80	4
AUT 229	Engine Electronics	3	80	4
AUT 121	Basic Engines & Fuel Systems	3	80	4
AUT 228	Engine Rebuilding	3	80	4
GE-B 202	Psychology	3	64	
GE-D 101	English Composition	3	48	
AUT 219	Co-Op Work Experience at Dealership	8	480	12
AUT 123	Brake Systems	3	80	4
AUT 227	Steering/Suspension Systems	3	80	4
STC 105a	Technical Mathematics	2	32	
AUT 219	Co-Op Work Experience at Dealership	8	560	14
		<u>42</u>	<u>1664</u>	<u>50</u>
<u>Second Year</u>		<u>Credit</u>	<u>Hours</u>	<u>Weeks</u>
AUT 223	Body & Chassis Electrical Systems	3	80	4
AUT 224	Automotive Air Conditioning Systems	3	80	4
AUT 225	Electronic Fuel & Emission Controls	3	80	4
AUT 230	Automotive Diesel Fuel & Electrical Sys.	3	80	4
STC 107a	Applied Physics	2	32	
STC 107b	Applied Physics	2	32	
GE-D 153	Public Speaking	3	32	
AUT 219	Co-Op Work Experience at Dealership	8	480	12
AUT 127	Drive Train Systems	3	80	4
AUT 221	Automatic Transmission Systems	3	80	4
STC 102	Technical Report Writing	2	32	
		<u>35</u>	<u>1088</u>	<u>36</u>

ADVANCED TECHNICAL AUTOMOTIVE STUDIES THROUGH THIRD YEAR SPECIALIZATIONS

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

Advanced Studies in Automotive Electronics

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

Advanced Studies in Automotive Power Trains

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

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

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

BACHELOR OF SCIENCE DEGREE OPTIONS AT SIU

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

A four year program designed for those interested in management positions in the automotive industry. This is the bachelor of science degree program in career development with an emphasis on automotive management.

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

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

The program of flight instruction at SIU 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. An option for the student desiring a degree short of the baccalaureate degree might be the Associate of Applied Science in Aviation Flight. This would enhance their professional value to the aviation industry by providing a balanced program of academic offerings along with flying certificates through Commercial Pilot with Instrument and Multi-Engine ratings and the Certified Flight Instructor-Airplane. Students may desire the combination of flight courses with one of the University's Aviation Technologies programs for an associate degree.

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 SIU is conducted by the SIU Air Institute located at the Southern Illinois Airport, approximately three 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 certificated Pilot School with examining authority, providing comprehensive flight training which includes the most basic certificate (Private Pilot) to the most advanced (Airline Transport Pilot).

Substantial costs are incurred by students pursuing professional aviation. Realistically, students should plan on spending between \$10,000 - \$12,000 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 and Records for more specific information relative to degree options, flight costs and additional training alternatives such as Air Force ROTC and Army ROTC.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 330	Weather	-	3
GE-B 212	Introduction to American Govt. & Politics	3	-
GE-D 101	English Composition	3	-
AF 200	Primary Flight Theory	3	-
AF 201	Primary Flight	2	-
AF 202	Basic & Intermediate Flight Theory	-	2
AF 203	Flight - Basic	-	1
AF 204	Flight - Intermediate	-	1
MATH 111	Pre-Calculus	-	5
PHYS 203	College Physics	-	3
Electives		4	-
		<u>15</u>	<u>15</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
AF 205	Instrument Flight Theory	3	-
AF 206	Flight - Instrument and Advanced	4	-
AF 207	Flight - Multi-Engine Rating	-	1
AF 300	Flight Instruction Theory	-	3
AF 303	Flight Instruction Airplane	-	2
ATA 101	Aircraft Systems	3	-
ELT 100	Introduction to Electronics	3	-
STC 102	Technical Writing	-	2
AF 260	Reciprocating & Jet Airplane Systems	-	4
Elective		-	3
		<u>15</u>	<u>15</u>

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. Many students combine both the flight and maintenance programs. Students may also take flight classes as electives in this program or any other. (See "Aviation 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>
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
STC 105a	Technical Mathematics	2	-
AMT 111	Materials Processing	4	-
AMT 112	Aircraft Electricity	4	-
AMT 113	Federal Aviation Regulations	2	-
AMT 114	Aircraft Weight and Balance	2	-
AMT 116	Aircraft Instruments	-	3
AMT 201	Applied Science	2	-
AMT 203	Aerodynamics	-	2
AMT 204	Aircraft Hydraulics	-	4
AMT 205	Cabin Environment & Jet Transport System-	6	
AMT 206	Metals Processing	-	3
		<u>19</u>	<u>20</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Science Elective	-	2
GE-B 202	Introduction to Psychology ¹	3	-
GE-D 152	Interpersonal Communication	3	-
AMT 110	Aircraft Structures	4	-
AMT 210	Aircraft Electrical Systems	2	-
AMT 211	Reciprocating Powerplant	5	-
AMT 212	Carburetion, Lubrication	5	-
AMT 213	Ignition Systems	-	5
AMT 214	Propellers	-	3
AMT 215	Powerplant Testing	-	5
AMT 216	Jet Propulsion Powerplant	-	6
		<u>22</u> /	<u>21</u>
		<u>Summer*</u>	
AT 225	Aircraft Inspections	6	
AT 230	Powerplant Inspections	6	
		<u>12</u>	

*A minimum of 81 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 Maintenance Technology As A Major

Aviation maintenance technology facilities are located at the Southern Illinois Airport, three miles NNW of the Carbondale campus and three miles ENE of Murphysboro, Illinois.

Students entering the aviation maintenance technology program for the first time must purchase a basic tool kit and special study materials costing approximately \$360.

The Aviation Maintenance 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 representing the modern jet transports such as: Boeing 707, 727, 747 and Douglas DC8, DC9, and DC10 aircraft.

Students may join various student organizations such as Alpha Eta Rho International Aviation Fraternity, the Rotary Wing Association of America, a flying club, an avionics club and even a radio control model airplane club. Members of these organizations often sponsor events like fly-ins, air shows, and field trips to sites of aviation activities.

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

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

AVIATION MANAGEMENT
School of Technical Careers
(Bachelor of Science)

David A. NewMyer, Coordinator
Division of Advanced Technical Studies
Telephone - 618-536-6682
STC Building, Room 126

The Division of Advanced Technical Studies (ATS) in the School of Technical Careers offers a bachelor of science in aviation management. The aviation management major is designed to build upon technical training and experience in aviation maintenance, flight, avionics technology air traffic control, aircraft operations support or other aviation related fields.

The program of study for the aviation management major combines SIU general education requirements, program major requirements, approved major electives, and ATS core courses in a comprehensive and flexible curriculum. The 45 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 45 to 30.

First Year

GE-A	Science (select)	3	3
GE-B	Social Science (select)	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	4
GE-E	Human Health & Well Being (select)	2	-
Electives	Technical Specialization	7	5
		<u>18</u>	<u>18</u>

Second Year

GE-A	Science (select)	3	-
GE-B	Social Science (select)	3	3
GE-C	Humanities (select)	-	3
GE-D 118	Technical Report Writing	-	2
GE-D 152	Interpersonal Communication or		
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being (select)	-	2
Electives or	Technical Specialization	9	8
		<u>18</u>	<u>18</u>

*GE Total = 45 hours. See advisor to determine eligibility for Capstone option.

Third and Fourth Years

ATS core courses - 12 hours required.

ATS 364	Work Center Management	3
ATC 416	Applications of Technical Information	3

Two of the following:

ATS 332	Labor Management Problems	3
ATS 383	Data Interpretation	3
ATS 421	Professional Development	3
		<u>12</u>

Aviation Management Specialization Requirements

15 hours required

ATS 370	Airport Planning	3
ATS 371	Aviation Industrial Regulations	3
ATS 372	Airport Management	3
ATS 373	Airline Management	3
ATS 374	General Aviation Operations	3
ATS 375	Legal Aspects of Aviation	3
ATS 376	Aviation Maintenance Management	3
ATS 377	Aviation Safety Management	3
ATS 378	National Airspace System	3
ATS 386	Fiscal Aspects of Aviation Mgmt.	3
ATS 401	Current Issues in Aviation Mgmt.	3
		<u>15</u>

Aviation Management Specialization electives - 9 hours required.
(Must be approved by advisor).

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

Approved career electives - 27 hours

TOTAL: 120 hours

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 DC 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>
GE-D 101	English Composition	-	3
GE-D 152	Interpersonal Communication	-	3
STC 105a,b	Technical Mathematics	4	-
ATA 101	Avionics Circuit Analysis	3	-
ATA 120	Avionics Laboratory I	8	-
ATA 125	Avionics Systems	5	-
ATA 232	Avionics Electronic Circuits	-	10
ATA 210a	Aircraft Electrical Systems	-	2
		<u>20</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 118	Technical Report Writing	2	-
ATA 203	Avionics Shop Practices	3	-
ATA 204	Avionics Shop Lab	3	-
ATA 235	Flight System Theory	6	-
ATA 236	Avionics Laboratory	5	-
ATA 233	Aircraft Communications and Navigating System Theory	-	5
ATA 234	Avionics Laboratory	-	5
ATA 237	Avionics Logic Circuits and Pulse System Theory	-	5
ATA 238	Avionics Laboratory	-	5
		<u>19</u>	<u>21</u>
		<u>Summer*</u>	
ATA 304	Avionics Radar System Theory	4	
ATA 302	Avionics Laboratory V	3	
ATA 303	FCC Regulations	2	
		<u>9</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 78 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 Education Area A and the Departments of Botany, Microbiology, Physiology, and Zoology. A student selecting biological sciences as his or her concentration does not need to take a secondary concentration.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
ZOOL 220a,b	Diversity of Animal Life	4	4
GE-B	Social Studies (select) ²	-	3
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118, or 119	Writing (select) ²	-	2
BOT 200	General Botany and Lab ³	-	4
MATH 111	Pre-Calculus ^{3,4}	5	-
GE-D 153	Public Speaking	3	-
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 212 or 301	American Government or U.S. History	3	-
GE-C	English elective in Humanities	-	3
GE-C	Humanities (select) ²	3	-
GE-E	Activity	-	2
GE-E 201	Healthful Living	2	-
BOT 204	Plant Diversity and Lab	-	4
CHEM 222a,b	Introduction to Chemical Principles & Lab ³	4	4
GE-B 202	Introduction to Psychology	-	3
PHSL 210	Introductory Human Physiology ³	-	4
EDUC 201	Teacher's Role in Public School Ed.	-	1
		<u>15</u>	<u>16</u>

¹See also the program under the College of Science.

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

³Approved substitutes for General Education.

⁴Or, Mathematics 108 and 109, or 140, or 141.

Biological Science As A Major

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

For specific major requirements see the Undergraduate Catalog.

Courses required for teacher certification include: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics OR GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118 or 119, Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; one additional English course (GE-C, GE-D, or departmental).

Biology has long been known as the "Queen of the Sciences." This title emphasizes its breadth and interdisciplinary nature. To solve the problems of biology requires study in a number of subject matter areas. The biology curriculum is designed to give the student a broad, yet intensive education preparatory for various professions as well as the teaching of biology at the secondary level. The work may be taken in either the College of Science or the College of Education. The science requirement for this concentration is the same in both colleges. The curriculum consists of course selected from the Departments of Botany, Microbiology, Physiology, and Zoology.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Expository, Technical Report, or Creative Writing	-	2
GE-E	Human Health and Well Being (select) ²	-	1
*FL	Foreign Language ⁴	4	4
*MATH 108,109 ZOO 220a,b	College Algebra and Trigonometry ^{3,4} Diversity of Animal Life (Invertebrate, Vertebrate)	3	3
		<u>4</u>	<u>4</u>
		17	18
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	6	-
GE-C	Humanities (select) ²	-	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being ²	-	3
*BOT 200	General Botany and Lab ⁴	4	-
*BOT 204	Plant Diversity and Lab ⁴	-	4
*CHEM 222a, b	Introduction to Chemical Principles ⁴	4	4
PHSL 210	Introductory Human Physiology ⁴	-	5
		<u>-</u>	<u>5</u>
		17	18

Third and Fourth Year

The last two years of a student's program should include completion of 3 additional hours in GE-A, GE-B, or GE-C, and the following courses in biological sciences: Microbiology 301, 302 (7 hours), any two of Biology 305, Biology 306, Biology 307, Biology 308, or Biology 309 (6 hours), and any electives in biological sciences at the 400-level, for 6 hours.

*Approved substitutes for General Education.

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 Education for the Transfer Student.

³ Math 111 substitutes for Math 108, 109.

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.

Biological Sciences As A Major (No minor required)

The increasing complexity of the world and the nature of its problems emphasize the importance of the study in biology. The problems of the world that are most forcibly felt are biological--population increase, nutrition, food production, energy supplies, medicine, sanitation, waste disposal, toxicities, and a host of others. Although advanced work (M.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.

Representative First Job Titles: Venereal Disease Investigator, Aide-Veterinary Clinic, Pharmaceutical Sales, Fishery Bacteriologist, Quality Control Specialist, Medical Laboratory Assistant, Medical Bacteriologist, Researcher-Chiropractic College, Nutrition Specialist, Plant Protection Scientist, Technical Marketing Representative, Research Technician, Technical Library Operator, Biological Warfare Officer, Technical Sales, Soil Conservation Technician, Soil Bacteriologist, Commodities Inspector, Food and Drug Inspector, Bio-Specimen Technician, Aquatic Biologist, Wildlife Biologist, Environmental Analyst, Fish and Wildlife Game Warden.

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>
GE-B 212 or 301	Introduction to American Government or U.S. History ²	-	3
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition ²	3	-
GE-D 117, 118, or 119	Writing ²	-	2
GE-E 201	Healthful Living ²	-	2
GE-E	P.E. Activity ²	-	1
BOT 200	General Botany & Lab ³	4	-
CHEM 222a,b	Introduction to Chemical Principles & Lab ³	4	4
MATH 111	Pre-Calculus ³	5	-
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology ²	-	3
GE-B	Social Studies (select)	3	-
GE-C	English elective in Humanities (select) ²	3	-
GE-C	Humanities (select)	3	3
GE-D 153	Public Speaking ²	-	3
GE-E	P.E. Activity ²	-	1
ED 201	Teacher's Role in Public School Education	-	1
BOT 204	Plant Diversity & Lab	4	-
BOT	Electives	3	5
		<u>16</u>	<u>16</u>

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

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

³ Approved substitutes for General Education.

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 bio-chemistry 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select)	-	2
GE-E	Human Health and Well Being (select) ²	-	1
*FL	Foreign Language ³	4	4
*BOT 200	General Botany and Lab ³	4	-
BOT 204	Plant Diversity and Lab ³	-	4
*MATH 108, 109	College Algebra and Trigonometry ³	3	3
		<u>17</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	6	-
GE-C	Humanities (select) ²	-	3
GE-D 152	Interpersonal Communication	3	-
GE-E	Human Health and Well Being ²	1	2
*BIOLOGY 307	Environmental Biology	-	3
BOTANY	Elective	-	4
BOTANY 304	Plant Classification	3	-
*CHEM 222a,b or 140a,b	Introduction to Chemical Principles ^{3,4}	4	4
		<u>17</u>	<u>15 (16)</u>

*Approved substitutes for General Education.

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 Education 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 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 three additional hours in GE-A, GE-B, or GE-C, Biology 305, and the following courses in botany: Botany 320, 337, and any botany electives totaling eighteen hours to be selected from Botany offerings excluding Botany 160, 257, 258, 259, 462, 490, 491; and may include up to a total of six 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, Researcher, Teacher, Cystologist.

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>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
*GE-B 202	Introduction to Psychology	-	3
GE-E-3 or	Humanities (select) ¹ or Human Health		
GE-E-2	and Well Being (select) ¹	3 (2)	-
GE-C	Humanities (select) ¹	-	3
*GE-D 101	English Composition	3	-
MGT 202	Administrative Communications ²	-	3
*MGT 208	Interpretation of Business Data	-	4
*MATH 116-5 or	Finite Mathematics and Algebra or		
139-3	Finite Mathematics	3 (5)	-
		<u>15 (16)</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-C-3 or	Humanities (select) ¹ or Human Health		
GE-E-2	and Well Being (select) ¹	3 (2)	-
GE-A/B/C	General Education Electives	-	3
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or	Intro. to Computer Programming (Pascal) or		
EDP 217	Computing for Business Admin. (Fortran)	-	3
*MATH 117-5 or	Finite Mathematics and Calculus or Short		
140-4	Course in Calculus	4 (5)	-
*ECON 214, 215	Economics, Macro and Micro ³	3	3
		<u>16</u>	<u>15</u>

*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 Education for the Transfer Student.

²MGT 202 substitutes for GE-D 118.

³ECON 214 or 215 counts toward GE-B credit.

Business And Administration As A Major

Secondary concentration required; foreign language not required.

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

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

The Department is recognized by the American Assembly of Collegiate Schools of Business (AACSB).

See College of Business and Administration listing for their retention policy and the 40% rule.

BUSINESS ECONOMICS

College of Business
(Bachelor of Science)

Dr. Iqbal Mathur
Chairperson, Dept. of Finance
Telephone - 618-453-2450
Henry J. Rehn Hall, Rm 120

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>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
*GE-B 202	Introduction to Psychology	-	3
GE-C-3 or GE-E-2	Humanities (select) ¹ or Human Health and Well-Being (select) ¹	3 (2)	-
GE-C	Humanities (select) ¹	-	3
*GE-D 101	English Composition	3	-
MGT 202	Administrative Communications ²	-	3
*MGT 208	Interpretation of Business Data	-	4
*MATH 116-5 or 139-3	Finite Mathematics and Algebra or Finite Mathematics	3 (5)	-
		<u>14-16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-C-3 or GE-E-2	Humanities (select) ¹ or Human Health and Well Being (select) ¹	3 (2)	-
GE-A/B/C	General Education Electives	-	3
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or EDP 217	Intro to Computer Programming (Pascal) 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)	-
		<u>14-16</u>	<u>15</u>

*Required course for a major in Business Economics

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

²MGT 202 substitutes for GE-D 118.

³ECON 214 or 215 count toward GE-B 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: 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>
GE-A	Science (select) ¹	-	3
GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-D 107	Intermediate Algebra	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being	2	-
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>
GE-A	Science (select) ¹	3	3
GE-B 211	Contemporary Economics	3	-
GE-B 212 or 301	American Government or History of U.S.	-	3
GE-C	English Elective in Humanities (select) ¹	3	-
GE-E 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
GE	Electives	-	6
		<u>16</u>	<u>17</u>

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

Business Education As A Major

Students should include the following courses required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 211, Contemporary Economics; GE-B 212, Introduction to American Government and Politics, or GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 118, Technical Writing; GE-D 153, Public Speaking; GE-E 100-114, 2 hours, Physical Education Activities; GE-E 201, Healthful Living; one additional English course (GE-C, GE-D, or departmental).

Major Core Requirements: Accounting 220, Economics 214 or GE-B 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 133

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>
GE-A	Science (select) ¹	3	-
GE-B 202	Introduction to Psychology	3	-
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	-	3
GE-C 208	Elementary Logic	3	-
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-D 107	Intermediate Algebra	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ¹	-	2
ACCT 220	Financial Accounting	-	<u>3</u>
<hr/>		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B 211	Contemporary Economics	3	-
GE-C	Humanities (select) ¹	-	3
GE-E	Human Health and Well Being	-	2
ACCT 230	Managerial Accounting	-	3
SCR 101A	Keyboarding	3	-
GE-	Electives	6	<u>4</u>
<hr/>		15	15

¹Refer to the section General Education 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.

CAREER DEVELOPMENT
School of Technical Careers
(Bachelor of Science)

Dr. Elaine Alden, Coordinator
Division of Advanced Technical Studies
Telephone - 618-536-6682
STC Building, Room 126

The Division of Advanced Technical Studies (ATS) in the School of Technical Careers offers a bachelor of science in career development. The career development major is a flexible, individually designed program of study for students with a broad range of technical training, interests, and experience. The program is ideally suited for community college and technical institute graduates holding occupationally-oriented associate degrees in fields such as automotive technology, communication graphics, construction technology, electronic data processing, photographic technology, secretarial services, and tool and manufacturing technology.

The career development major focuses upon managerial and supervisory skills for the technical professions. Career development graduates put these skills to work in such fields as construction, automotive, data processing, office management, architectural drafting/design, advertising, and small business operations.

The bachelor of science degree in career development builds upon student's previous technical training through a combination of ATS core courses, major requirements, approved major electives and SIU general education requirements.

The 45 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 45 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

First Year

GE-A	Science (select)	3	3
GE-B	Social Science (select)	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	4
GE-E	Human Health & Well Being (select) ¹	2	-
Electives or	Technical Specialization	7	5
		18	18

Second Year

GE-A	Science (select)	3	-
GE-B	Social Science (select)	3	3
GE-C	Humanities (select)	-	3
GE-D 118	Technical Report Writing	-	2
GE-D 152	Interpersonal Communication or		
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being (select)	-	2
Electives or	Technical Specialization	9	8
		18	18

*GE Total = 45 hours. See advisor to determine eligibility for Capstone option.

Third and Fourth Years

ATS core courses - 12 hours required.

ATS 364	Work Center Management	3
ATC 416	Applications of Technical Information	3

Two of the following:

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

Career Development Specialization Requirements - 24 hours

Must include at least 15 hours of 300-400 level coursework and no more than 12 hours of ATS classes. Individually designed with student's faculty advisor.

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

Approved career electives - 27 hours

TOTAL: 120 hours

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

The Department of Chemistry and Biochemistry has a long and distinguished record for its programs at the undergraduate level. These courses are designed to give thorough training in theory and practice. Three undergraduate degrees are offered allowing a student to select a program best suited to his/her future goals.

The Bachelor of Science degree in Education is administered by the College of Education. It is provided for those who wish to become secondary school chemistry teachers.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 212 or 301	American Government or U.S. History ²	-	3
GE-C	Humanities (select)	3	-
GE-D 101	English Composition	3	-
GE-D 117, 118, or 119	Writing (select) ²	-	2
GE-E 201	Healthful Living	-	2
GE-E	P.E. Activity	-	2
CHEM 222a,b	Introduction to Chemical Principles ³	4	4
MATH 111	Pre-Calculus ³	5	-
		<u>15</u>	<u>13</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	-	3
GE-B 202	Introduction to Psychology	3	-
GE-B	Social Science (select) ²	-	3
GE-C	English elective in Humanities (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 153	Public Speaking	-	3
CHEM 226	Introduction to Quantitative Chemical Principles	5	-
PHYSICS 203	College Physics	-	3
ED 201	Teacher's Role in Public School Education	1	-
MATH 150	Calculus I	4	-
		<u>16</u>	<u>15</u>

¹ See also the program under College of Science.

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

³ Approved substitutes for General Education

For specific major requirements see the Undergraduate Catalog.

Chemistry As A Major

The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics OR GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118, 119, Expository, Technical, or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; one additional English course (GE-C, GE-D, or departmental).

CHEMISTRY¹

College of Science
(Bachelor of Arts)
(Bachelor of Science)

Dr. James Tyrrell,
Department Executive Officer
Telephone - 618-453-5721
Neckers Building, Room 224

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.

First Year		Fall	Spring
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-D 153	Public Speaking	3	-
BIOL	Biological Sciences (not GE-A) ²	3	3
*CHEM 222a,b	Introduction to Chemical Principles	4	4
GE-C	Humanities (select) ³	-	3
MATH 111	Pre-Calculus ²	5	-
MATH 150	Analytic Geometry and Calculus ²	-	4
		18	16

Second Year		Fall	Spring
GE-B	Social Sciences (select) ³	-	3
CHEM 226	Intro to Quantitative Chemistry Principles	5	-
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
		15	15

*Approved substitutes for General Education.

¹ See also program under College of Education.

² Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences. German, French or Russian are recommended if language requirement is not previously satisfied.

³ Refer to section General Education for the Transfer Student.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives, and on fulfilling remaining General Education requirements. The B.S. in the College of Science requires 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 25 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, Quality Control Chemist, Analytical Chemist, Organic Chemist, Inorganic Chemist, Physical Chemist, Food Chemist, Soil Chemist, Agricultural Chemist, Paint Chemist, Chemical Laboratory Technologist, Dye Chemist, Geochemist, Manufacturer's Representative, Nuclear Chemist, Product Studies and Testing Chemist, Textile Chemist, Water Purification Chemist, Environmental Analyst, Toxicologist, Pollution Control Chemist.

The visual and aural world of still and moving images: this is the world of Cinema and Photography. From the history, theory, and appreciation of past work in motion pictures and still photography, students move into the challenges of using still and moving images to document, to express, and to communicate the artistic perspective that these media of light and shadow make dramatic. The curriculum in Cinema and Photography is structured to allow both professional and fine arts applications of these exciting approaches to visualization, allowing preparation also for educational careers in film and photography along with an exploration of the social implications of still and moving images. In each instance, students may tailor the program to meet particular interests and career plans.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 117, 118			
or 119	Writing (select) ¹	-	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		14	13
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Studies (select) ¹	3	3
GE-C	Humanities (select) ¹	3	3
GE 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 Education for the Transfer Student.

*Requirements for Cinema and Photography major.

Cinema And Photography As A Major

This department is recognized by national photographic organizations as one of the leading departments in the country.

A grade of 'C' is required in prerequisite courses and a 2.0 average must be maintained in cinema and photography courses in order to remain in the major.

No minor required. No foreign language required. The Master of Fine Arts degree in Cinema and Photography is also available.

Students must successfully complete the core requirements, and portfolios and/or films must be submitted for entrance into certain courses.

Students purchase supplies for many cinema and photography courses. In courses which involve analysis and screening of a number of films, a screening fee is assessed. Lab fees may be required for certain other courses.

Only transfer credit of an exceptional nature has been accepted to fulfill the major requirements in Cinema and Photography.

The University reserves the right to retain examples of the work of each student in each photography class and to make and retain prints of all films made as part of course work. Such photographs and films become part of a permanent departmental collection from which exhibitions may be prepared.

Representative First Job Titles: Studio Assistant, Illustrator, Cameraperson, 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 Stripper.

See also: electrical engineering, engineering: engineering mechanics option, engineering: thermal and environmental option, mechanical engineering, and mining engineering.

Civil engineering is a profession in which principles of the mathematical, physical, and engineering sciences, combined with experience and practice, are used to develop safe and economical designs for buildings, bridges, dams and hydraulic systems, environmental engineering systems, and other beneficial projects. Civil engineering is one of the oldest branches of the engineering field and is often called a "people-serving" profession.

The four-year undergraduate program leading to the Bachelor of Science degree in civil engineering has four areas of specialization: structural engineering, hydraulic engineering, environmental engineering, and applied mechanics. Additional technical electives enable students to concentrate on specialty areas that support their career goals.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
*ENGR 100	Introduction to Engineering	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	3	3
*GE-D 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GE-E	Human Health and Well Being (select) ^{1,2}	-	2
*CHEM 222a,c	Intro. to Chemical Principles and Lab ³	4	3
*MATH 150, 250	Calculus I & II ³	4	4
		<u>17</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
*GE-A	Introductory Biology	3	-
GE-B	Social Studies (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	-	3
*GE-D 153	Public Speaking	3	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics ³	3	3
		<u>16</u>	<u>15</u>

*Required courses for a major in Engineering.

¹See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses.

²Major requirements due to accreditation standards must include sixteen hours of Humanities and Social Studies; six or seven hours of oral and written communications and eighteen hours of basic science.

³Substitutes for General Education requirements.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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; 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, CE, EE, EM, ME, and MNGE.

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 three hours of English Composition, two hours of Technical Writing; three hours of Speech; eight hours of University Physics; seven hours of Chemistry; 11-14 hours of Math, including Calculus; two hours of Analytical Mechanics (Statics); and three hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

Career and Employment Opportunities

Civil engineers are in demand in many fields. The number and variety of employment opportunities allow graduates considerable flexibility in job selection. Positions exist in construction companies, consulting engineering and architectural firms, transportation, public utility and manufacturing companies, aerospace companies, and governmental agencies on every level.

Programs of study in foreign languages leading to the Bachelor of Arts degree in the College of Liberal Arts (with or without teacher certification) are offered in Classics, 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) has the option to 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.

First Year		Fall	Spring
GE-A	Science (select)	-	3
GE-B	Social Science (select)	3	3
GE-C	Humanities (select)	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select)	3	2
CLAS 133a,b or or CLAS 202a,b or	Elementary Latin ^{1,2} or Greek ^{1,2}	4	4
CLAS 201a,b	Intermediate Latin ^{1,2} or Greek ^{1,2}	(3)	(3)
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select)	2	-
		<u>14</u>	<u>14</u>
Second Year		Fall	Spring
GE-A	Science (select)	3	3
GE-B	Social Science (select)	-	3
MATH or CS	Mathematics or Computer Science ³	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
CLAS	Classics Electives ⁴	3	3
GE-E	Human Health and Well Being (select)	-	2
CLAS	Latin or Greek Language	3	3
		<u>15</u>	<u>14</u>

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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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 SIU.

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)

Department of Vocational Education Studies

College of Education

(Bachelor of Science)

M. Frances Giles, Coordinator

Teacher Education Services

Telephone - 618-453-2354

Wham Building, Room 135

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 graduates of this program. The variety of courses offered is outstanding which provides the student with opportunity to develop individual skills and competencies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	3	-
GE-A 106	Chemistry for Non-Science Majors	-	3
GE-B 211	Contemporary Economics	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	-	2
ART 100a	Two Dimensional Design	-	3
VES 336	Survey of Clothing	2	-
VES 338	Clothing Construction	3	-
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	3	-
GE-C 205	Innovation for the Contemporary Environment	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select)	2	-
ART 100B	Three-Dimensional Design	-	4
ART 200	Beginning Drawing	-	2
VES 337	Clothing for Consumers	3	-
VES 345	Textiles	-	4
VES 347	Fashion Motivation	3	-
		<u>17</u>	<u>13</u>

Third and Fourth Years

If not completed at the junior college level, Chemistry and VES 338 (Clothing Construction) must be taken the first semester the transfer student is at SIU. 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 Education Specialist, Consumer Market Analyst, Consumer Relations Officer, Apparel Designer, Fashion Coordinator, Patterns Designer, Tailor, Clothing Economist, Fashion Merchandising Expert, Advertising Assistant, Retail Store Manager, Cost Analyst, Customer Services Specialist, Sales Agent, Purchasing Manager, Marketing Specialist, Textile Selector, Textile Laboratory Assistant, Customer Relations Specialist, Pattern Maker, Industrial Relations Specialist, Price Economist, Manufacturer's Representative.

CLOTHING AND TEXTILES

(Retailing)

Department of Vocational Education Studies

College of Education

(Bachelor of Science)

M. Frances Giles, Coordinator

Teacher Education Services

Telephone - 618-453-2354

Wham Building, Room 135

Dr. Wayne L. St. John

Coordinator

Telephone - 618-536-7741

Quigley Hall, Room 311

The retailing program at Southern Illinois University is offered through the Department of Vocational Education Studies. Professional and free elective hours make it possible for the student to choose the courses of greatest personal value.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	3	-
GE-A 106	Chemistry for Non-Science Majors	-	3
GE-B	Social Sciences (select)	3	3
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select)	-	2
GE-E	Human Health and Well Being (select)	-	2
VES 336	Survey of Clothing	2	-
Elective		-	3
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	3	-
GE-B 211	Contemporary Economics	3	-
GE-C 205	Innovation for the Contemporary Environment	3	-
GE-D 152 or 153	Interpersonal Communications or Public Speaking	-	3
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select)	-	2
ACCT 210 or 220	Principles of Accounting	-	3
VES 337	Clothing for Consumers	3	-
VES 345	Textiles	-	4
VES 347	Fashion Motivation	3	-
		<u>15</u>	<u>15</u>

¹ Art 100a will substitute for GE-C Humanities. Retailing students must take Art 100a or Design 150.

Third and Fourth Year

If not completed at the junior college level, chemistry should be taken the first semester the transfer student is at SIU. 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 Education Specialist, Consumer Market Analyst, Consumer Relations Officer, Apparel Designer, Fashion Coordinator, Patterns Designer, Tailor, Clothing Economist, Fashion Merchandising Expert, Advertising Assistant, Retail Store Manager, Cost Analyst, Customer Services Specialist, Sales Agent, Purchasing Manager, Marketing Specialist, Textile Selector, Textile Laboratory Assistant, Customer Relations Specialist, Pattern Maker, Industrial Relations Specialist, Price Economist, Manufacturer's Representative.

The advertising business is a growing field, presenting tremendous employment opportunities for men and women who have creative and artistic ability. Trained people are needed to develop story illustrations, advertising layouts, billboard design, point-of-purchase displays, package designs, direct mail pieces, annual report designs, television commercials, title cards, finished lettering, fashion illustrations, airbrush and photo retouching and many others.

Students in this program develop multiple art skills so that they may qualify for initial positions in many different areas of advertising art and design. Each individual has a base upon which to build a career according to his or her own special interests and talents.

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>
GE-B 200	200 Level Elective (Psychology Recommended)	-	3
GE-D 101	English Composition	3	-
GE-D 153	Public Speaking	-	3
CG 110	Survey of Graphic Design	3	-
CG 120	Artistic Anatomy and Color Perception I	4	-
CG 122	Technical Drawing for Graphic Design	4	-
CG 124	Graphic Layout and Typography I	4	-
CG 130	Artistic Anatomy and Color Perception II	-	4
CG 132	Airbrush and Photo Retouching	-	4
CG 133	Copyfitting	-	1
CG 134	Graphic Layout and Typography II	-	4
*CG 150	Computer Applications for Commercial Graphics-Design	-	2
*PPT 109	Illustration and Product Photography	-	2
		<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	-
CG 222	Graphic Design and Advertising Illustration	-	8
CG 215	Dimensional Design	-	8
CG 230	Job Orientation Seminar	-	1
STC 102	Technical Writing (Special Course for Majors)	2	-
		<u>18</u>	<u>17</u>

*Electives -- A student will select one, may take both, time permitting.

A minimum of 73 hours is required for this program.

Applicants will first be admitted to the University with a "provisional - Commercial Graphics" designation for the Fall 1986 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. Counselors or art teachers may request a slide presentation or demonstration by a faculty member, time permitting. There is no charge for this service.

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)

Kenneth Ruder, Chairperson
Telephone - 618-453-4301
Communications Bldg., Rm 1003M. 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 children and adults impaired in speech, language or hearing. The pre-professional undergraduate curriculum is broad in scope and presents the student with the necessary background for the professional program offered at the Master's level. Both state and national certification require the Master of Science degree.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology	3	-
GE-B 108	The Sociological Perspective	3	-
GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select) ¹	3	3
GE-A, GE-B, or GE-C	Select ¹	-	3
GE-D 101, 117	English Composition and Expository Writing	3	2
GE-D 107	Intermediate Algebra	-	3
PHSL	Physiology course approved by department	-	3
		<u>16</u>	<u>14</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	(select) ¹	3	-
GE-B 206	Applied Child Development	3	-
GE-C	English elective in Humanities	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ¹	1	1
GE-E 201	Healthful Living	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	Teacher's Role in Public Education ²	-	1
and GE-E or	Electives	-	2
PSYCH 211	Research Methods in Psychology	-	(4)
		<u>15</u>	<u>16</u>

¹ Refer to section: General Education for the Transfer Student.² Public School Specialization.

Preparation for teacher certification should include the following courses taught via General Education: GE-B 202, Introduction to Psychology; GE-E 201 (Healthful Living); GE-B 212 or 301; GE-D 101; GE-D 117 or 118 or 119; GE-D 153; GE-E 100-114 (2 hours); and one additional English course from GE-C, GE-D or department.

Communication Disorders and Sciences As A Major

In the departmental major of 37 semester hours, the third and fourth year as an undergraduate presents the student with information concerning common disorders of speech, language and hearing such as phonology, language, voice, stuttering, and hearing loss. Graduate work is primarily devoted to the management of communication disorders in clinical or school settings as well as information concerning the more severe disorders such as cleft palate, stroke, autism, and fitting of hearing aids.

Extensive clinical experience (minimum of 300 clock hours) is obtained through work at the University's Clinical Center, the public schools in student teaching, special summer programs, the Marion Veterans Administration Hospital, SIU School of Medicine Clinical Program, the Anna State Hospital and other area hospitals or agencies.

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

Representative First Job Titles (All require certification/Master of Science degree): Speech and Language Clinician, Speech Pathologist, Speech Therapist, Audiologist, Speech and Hearing Consultant, Hearing Aid Specialist.

COMPUTER SCIENCE
(Option A)
College of Liberal Arts
(Bachelor of Arts)

Dr. Kenneth Danhof - Chairperson
Telephone - 618-536-2327
Faner Bldg. Rm. 2126

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>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117, 118 or 119	English Composition ¹ and Writing (select) ¹	3	2
GE-E	Human Health and Well Being (select) ¹	2	-
CS 202	Introduction to Computer Programming ³	-	3
MATH 111	Pre-Calculus ²	5	-
MATH 150	Calculus I ^{3,5}	-	4
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	-	3
FL	Foreign Language ⁴	4	4
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ¹	-	2
CS 204	Advanced Programming Techniques ³	3	-
CS 302	Assembly Language Programming ³	-	4
MATH 221	Introduction to Linear Algebra ³	-	3
MATH 250	Calculus II ³	4	-
		<u>17</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 Education for the Transfer Student.

²Will substitute for general education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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 PASCAL as a vehicle. CS 220 is a second course in programming which also uses PASCAL 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 111 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

COMPUTER SCIENCE

(Option B)
College of Liberal Arts
(Bachelor of Arts)

Dr. Kenneth Danhof - Chairperson
Telephone - 618-536-2327
Faner Bldg. Rm. 2126

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>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	-
GE-B 202	Introduction to Psychology	-	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-E	Human Health and Well Being (select) ¹	2	-
CS 202	Introduction to Computer Programming ³	-	3
MATH 116	Finite Mathematics and Algebra ^{2,3}	5	-
MATH 117	Finite Mathematics and Calculus ^{2,3}	-	4
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	-	3
FL	Foreign Language ⁴	4	4
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
ACCT 220,230	Financial, Managerial Accounting ³	3	3
CS 204	Advanced Programming Techniques ³	3	-
CS 302	Assembly Language Programming ³	-	4
		<u>16</u>	<u>14</u>

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

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 139, 140, the choice depending on the student's background in mathematics. One of these courses may substitute for GE 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.

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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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 PASCAL as a vehicle. CS 220 is a second course in programming which also uses PASCAL 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, Computer-Controlled Machinery Operator, Sales Representative, Consultant.

CONSTRUCTION TECHNOLOGY

School of Technical Careers
(Associate of Applied Science)

Harold W. Osborn
Program Coordinator
Telephone - 618-529-1143
STC Carterville Campus

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	Technical Mathematics	4	-
STC 107a,b	Applied Physics	-	4
CST 100	Construction Orientation	1	-
CST 102	Construction Drawing and Blueprint Reading	4	-
CST 103	Concrete Technology	-	4
CST 104	Surveying in Construction	4	-
CST 105	Construction Codes, Specifications Inspection, and Safety	-	2
CST 110	Residential Framing and Exterior Finish	5	-
CST 111	Interior Finish	-	5
CST 125	Structural Mechanics I	-	3
		<u>18</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 101	English Composition	3	-
GE-D 118 or 153	Technical Report Writing or Public Speaking	-	2 (3)
STC 120	Fiscal Aspects of Technical Careers	-	3
CST 203	Construction Materials	4	-
CST 207	Construction Management	-	3
CST 208	Construction Cost Estimating	-	3
CST 209	Mechanical Systems	-	4
CST 210	Remodeling and Renovation	5	-
CST 211	Commercial Construction	-	3
CST 225	Structural Mechanics II	3	-
Elective	Social Studies or Humanities	3	-
		<u>18</u>	<u>18 (19)</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.

CONSUMER ECONOMICS AND FAMILY MANAGEMENT
(Consumer Services in Business Option)
School of Technical Careers
(Bachelor of Science)

Dr. Thomas M. Brooks, Coord.
Division of Advanced Technical
Studies, Telephone 618-536-6682
School of Technical Careers
STC Building, Room 126

This specialization prepares students for professional opportunities in consumer affairs in industry and government. Special emphasis is placed on the role of the consumer in the 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>
GE-A	Science (select) ¹	3	3
*GE-B 108	Sociological Perspective ²	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117 or 118	English Composition and Writing ²	3	2
GE-D 153	Public Speaking ²	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being (select) ¹	1	1
Elective		-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
*GE-B 202	Introduction to Psychology ²	3	-
*GE-B 211	Contemporary Economics ²	-	3
GE-C	Humanities (select) ¹	3	3
GE-E	Human Health and Well Being (select) ¹	2	-
GE-A, B, C	(select) ¹	2	-
Electives	(accounting recommended)	5	6
		<u>15</u>	<u>15</u>

¹Refer to General Education for the Transfer Student.

²Required General Education courses.

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, Consumer Affairs or Information Specialist, Consumer Educator, Community Liaison Specialist.

This specialization is designed to give students a knowledge and understanding of the family's management and allocation of resources. This option prepares students for employment in public and private welfare agencies, cooperative extensions, local government and other programs. The low-income family is of particular interest in this specialization. Elective courses should reflect the student's personal employment goals. The program is tailored to meet the theoretical as well as applied concepts in preparing students to serve individuals and families of various ages, physical abilities, and income levels.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B 108	Sociological Perspective ²	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 101, & 117 or 118	English Composition & Expository or Technical Report Writing ²	3	2
GE-D 153	Public Speaking ²	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being ¹	2	1
Electives		-	3
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B 202	Introduction to Psychology ²	3	-
GE-B 211	Contemporary Economics ²	-	3
GE-C	Humanities (select) ¹	3	3
GE-E	Human Health and Well Being (select) ¹	-	1
GE-A, B, C	(select) ¹	-	2
F&N 100	Fundamentals of Nutrition	3	-
Electives		6	3
		<u>15</u>	<u>15</u>

¹ Refer to section on General Education for the Transfer Student.

² Required General Education courses.

Third and Fourth Years

Education during the third and fourth years emphasize departmental requirements and advanced courses in Consumer Economics and Family Management. They include the following areas: consumer resources and problems, housing concerns, family financial management, management for low-income families, consumer health, marriage and family living, and family counseling. In their senior year, students participate in an internship experience.

Representative First Job Titles: Money Manager, Hospital Patient Representative, Social Services Agency Worker, Senior Citizens Agency Counselor, Budget or Credit Counselor, Consumer and Family Finance Specialist.

The dental hygienist is an important member of the dental health team, and is the only one other than the dentist who is permitted by law to work directly in the mouth of the patient. Both men and women enjoy the profession. Many dental hygiene graduates work in private practice. In this setting, 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. Alternative employment opportunities include teaching, public health dentistry, civilian employment at military installations, sales and marketing for dental companies, management positions in dental clinics or related health care facilities, and consulting for long term health care facilities. Future changes in statutes may open possibilities for independent private practice. Several states currently allow independent contracting in private practice.

This program is fully accredited by the Council on Dental Education of the American Dental Association. Available facilities restrict first-year enrollment to 50 students. Interested persons should contact both the SIU Office of Admissions and the dental hygiene faculty. Special application material is included in requirements for admission to the program.

All application materials to the University and to the program for Fall 1986 must be on file no later than January 15, 1986. Selection of the fall class will be completed soon after that date. Applications completed after that date may be considered for acceptance at the discretion of the admissions committee.

The dental hygiene student has expenses of about \$2600 in addition to University tuition and fees. This covers the cost of instruments, uniforms, liability insurance, and a basic professional library; in addition they spend time at the School of Dental Medicine in Alton, Illinois, for an internship experience.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 106	Chemistry for Non-Science Majors	3	-
GE-D 101	English Composition	-	3
GE-D 152	Interpersonal Communication	3	-
AHC 141	Anatomy and Physiology	4	-
MICRO 201	Elementary Microbiology	-	4
DH 126	Oral Anatomy and Tooth Morphology	3	-
DH 133	Histology and Embryology	2	-
DH 137	Pre-Clinical Dental Hygiene	5	-
DH 138	Pathology	-	2
DH 147	Preventive Dentistry	-	1
DH 208	Clinical Dental Hygiene	-	4
DH 211a	Seminar	-	1
DH 218a	Dental Radiology	-	2
DH 226	Anatomy of the Head and Neck	-	2
		<u>20</u>	<u>19</u>

Summer Session (8 weeks)

DH 209	Dental Hygiene Clinic	3
DH 211b	Seminar	1
DH 217	Dental Nutrition	2
DH 218b	Dental Radiology	2
		<u>8</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	-	3
DH 201	Dental Materials	4	-
DH 238	Oral Pathology	2	-
DH 240	Pharmacology	2	-
DH 241	Periodontology	2	-
DH 248 and 348	Dental Public Health and Community Dentistry and Practicum	2	2
DH 310a,b	Clinical DH and Radiology	6	6
DH 311a,b	Senior Seminar	1	1
DH 315	Ethics, Jurisprudence and Office Management	-	2
SOC 321	Socialization of the Individual	-	3
		<u>19</u>	<u>17</u>

A minimum of 83 hours is required for this program.

Representative First Job Titles: Dental Hygienist, Researcher, Health Administrator, Registered Dental Hygienist, Dental Hygiene Educator, Public Health Dental Hygienist.

Dental Technology is concerned with the construction of replacements for natural teeth which have been lost by disease or accident. A technologist trained in this art is called a Dental Technician.

The relationship of the dental technician to the dentist is similar to that of the pharmacist to the physician or the optician to the eye specialist. Important members of the dental health team, students find their skills and knowledge are invaluable. They work from a prescription from the dentist and are employed in the dental office or in dental laboratories varying in size from one to as many as 100 people.

The Dental Technology program includes extensive study covering all phases of dental technology and leads to an associate in applied science degree. The program was designed so that students would receive not only technical training but also general education courses to prepare them for a socially complex world. It is for this reason that approximately one-third of the total curriculum consists of general education courses.

The technical curriculum covers a complete study of dental morphology, fabrication of dental restorations and appliances in all the prosthetic phases of dentistry, dental materials, dental laboratory management and other related subjects. Students who enjoy working with their hands will find dental technology to be an especially rewarding career.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 101	Conceptual Insights, Modern Communication Systems	-	3
GE-A 106	Chemistry for Non-Science Majors	3	-
GE-D 101	English Composition	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>
GE-D 152	Interpersonal Communication	-	3
DT 113b	Science of Dental Materials	2	-
DT 200*	Dental Occlusion	4.5	-
DT 204a*	Beginning Crown and Bridge	4.5	-
DT 204b*	Advanced Crown and Bridge	4.5	-
DT 205	Dental Laboratory Management	1	-
DT 206a*	Dental Ceramics	-	4.5
DT 206b*	Advanced Dental Ceramics	-	4.5
DT 210*	Dental Lab Specialty	-	4.5
STC 102	Technical Writing	2	-
STC 120	Fiscal Aspects of Technical Careers I	-	3
		<u>18.5</u>	<u>19.5</u>

*Five-week module.

Dental Technology As A Major

This program is the second oldest dental technology program in the country, and is the first of its kind in the state of Illinois to be accredited by the Commission on Dental Accreditation for the American Dental Association. The program has maintained 'full approval' accreditation status since it was founded in the summer of 1956.

The Commission's standards are sufficiently high to ensure that the graduate of such an accredited program has the best education it is possible to give in the time allocated. The 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 and foreign countries.

The student should expect to spend about \$800.00 for a dental kit, laboratory jacket, Delta Tau Club, and recognized graduate exam fee over a two year period.

Representative First Job Titles: Dental Technician, Sales Representative, Technical Representative.

DESIGN

(Product)
(Visual Communications)
School of Art
College of Communications and Fine Arts

Divisional Executive Officer
Telephone 618-536-7741
Quigley Hall, Room 128C

The faculty and students of the Design Program are a part of the School of Art.

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>
GE-B	Social Studies (select)	3	-
GE-C 205	Innovation for the Contemporary Environment	3	-
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select)	-	2
ART 100a,b	2-D and 3-D Design	3	3
ART 107	Fundamentals of Art	3	-
ART 110	Beginning Drawing I	3	-
ART 207	Survey of Art	-	3
DES 102	Design Fundamentals	-	5
		<hr/> 15	<hr/> 16

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	3	3
GE-B	Social Science (select)	3	3
GE-C	Humanities (select)	3	3
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being (select)	1	1
ART 120 or 203,204,205,206	Beginning Drawing II or 3-D Studio	3	-
ART 346	Survey of 20th Century Art	-	3
DES 201	Survey of Design	-	3
		<hr/> 16	<hr/> 16

Third and Fourth Years

If not completed at the junior college level, GE-C 205 should be taken the first semester the transfer student is at SIU. Other courses taken the last two years will include additional design core, professional preparatory and elective courses. Two options are available: product design and visual 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.

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, Typographic Designer, Cameraman, Technical Illustrator, Systems Evaluator, Technical Sales Representative, Publications Assistant, Manufacturer's Representative.

EARLY CHILDHOOD
(Child and Family Services)
College of Education
(Bachelor of Science)

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

Dr. Billy Dixon, Chairperson
Curriculum, Instruction & Media
Telephone 618-453-2239
Wham Building, Room 327

Within a major in Early Childhood, the curriculum offers a specialization in Child and Family Services. These courses offer basic background leading to 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>
GE-A	Science (select)	3	3
*GE-B 108	The Sociological Perspective	-	3
*GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 117,118, or 119	Writing	-	2
GE-D 152	Interpersonal Communication	-	3
F&N 100	Fundamentals of Nutrition	3	-
GE-E	Human Health and Well Being (select)	-	2
		15	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	3	-
*GE-B 212	Intro. to American Government & Politics	-	3
GE-C	Humanities (select)	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	P.E. Activity	-	2
C&F 227	Marriage and Family Living	3	-
C&F 237	Child Development	3	-
Elective		3	4
GE	Additional coursework from A, B, or C	-	3
		15	15

*Required General Education courses. See section on General Education for the Transfer Student.

Early Childhood As A Major

No minor required.

Flexibility of program provides for specialization in the areas of direct care of children, teaching, and community development related services.

Graduate degree available.

Faculty have varied interests in child development/family relations, retardation, motivation of the child, sex education, child abuse.

Excellent facilities - Child Development Laboratory with observation booth, and only infant care laboratory in the state.

Representative First Job Titles: Nursery School Director, Day Care Center Director, Child Care Specialist, Home Economics Extension Specialist, Recreational Leader, Residential Life Supervisor, Preschool Director, Child Behavior Education Specialist, Child Welfare Education Specialist, Child Placement Education Specialist, Family Welfare Education Specialist, Cultural Education Specialist, Sales Trainee, Children's Programs Organizer, Child Development Specialist, Minority Groups & Race Relations Education Specialist, Population Education Specialist, Teacher (Pre-School).

EARLY CHILDHOOD
(K-3)
College of Education
(Bachelor of Science)

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

M. 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>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	3	3
GE-C 100	Music Understanding ²	-	2
GE-C 101	Introduction to Art	3	-
GE-C	Fine Arts from General Education	-	3
GE-D 101	English Composition ²	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking ²	2	-
GE-D 117	Expository Writing ²	-	2
GE-E	P.E. Activity ²	2	-
GE-E 201	Healthful Living ²	-	2
ED 201	Teacher's Role in Public School Education	-	1
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B 202	Introduction to Psychology ²	3	-
GE-B 301	History of U.S. ²	-	3
GE-C	Literature (select) ² (or English required)	3	-
GE-C	Fine Arts	-	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
		<u>16</u>	<u>15</u>

¹See section on General Education for the Transfer Student.

²Required for teacher 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.

Excellent facilities--Child Development Laboratory with observation booth, and only infant care lab in the state.

EARLY CHILDHOOD
(Preschool Certification Program)
College of Education
(Bachelor of Science)

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

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

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>
GE-A	Science (select) ¹	3	3
GE-B 202	Introduction to Psychology ³	3	-
GE-C 100	Music Understanding ³	2	-
GE-C	Humanities (Art & Music are required) ^{2,3}	-	3
GE-D 101	English Composition ³	3	-
GE-D 117 or 119	Expository or Creative Writing ³	-	2
GE-D 107	Intermediate Algebra	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	P.E. Activity ³	-	2
GE-E 201	Healthful Living ³	-	2
Elective		<u>1</u>	<u>-</u>
		15	15

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B 212 or 301	American Government or U.S. History ³	4	-
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	3
CIM 227	Marriage and Family Living	3	-
CIM 237	Early Child Development I	3	-
F&N 100	Fundamentals of Nutrition	-	3
Psyc 301	Child Psychology	-	3
Elective		<u>-</u>	<u>3</u>
		15	15

¹See section on General Education for the Transfer Student.

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

³Teacher certification requirements include GE-B 202; GE-B 212 or 301; GE-C 100; an art class; GE-D 101; GE-D 117 or 119; GE-E 201; and GE-E 100-114.

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

Specific General Education courses listed are required for this program.

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

Excellent facilities--Child Development Laboratory with observation booth, and only infant care lab in the state.

The Economics major consists of 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117, 118, or 119	English Composition and Writing (select) ¹	3	2
GE-D	Speech (select) ¹	-	2 (3)
MATH 116	Finite Mathematics and Algebra	5	-
GE-E	Human Health and Well Being (select) ¹	2	-
MATH 117	Finite Mathematics and Calculus ²	-	5
		<u>16</u>	<u>15-16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select)	-	3
GE-C	Humanities (select) ¹	-	3
FL	Foreign Language ³	4	4
GE-E	Human Health and Well Being (select) ¹	2	-
*ECON 214, 215	Introduction to Macro and Micro Economics ⁴	3	3
Elective ⁵		<u>3</u>	<u>3</u>
		<u>15</u>	<u>16</u>

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

²The mathematics requirement for economics majors is Math 117 or 140 or 141. This also fulfills a Liberal Arts requirement.

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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

⁴Part of Economics major requirement. Economics 214 also satisfies part of GE-B 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.

See also: civil engineering, engineering: engineering mechanics option, engineering: thermal and environmental option, mechanical engineering, and mining engineering.

The Department of Electrical Engineering offers courses in the major areas of electrical and computer engineering. Students who choose the electrical engineering major prepare themselves for professional and technical employment or graduate studies leading to advanced degrees. Employment opportunities exist within a wide range of organizations, such as governmental laboratories; consumer goods manufacturers; and telecommunications, electric power, computer and microelectronic companies. Flexibility in this major allows students to choose among courses in application and theory of circuits, systems, communications, digital systems, controls, electronics, instrumentation, electromagnetics and power systems.

The electrical engineering major is a new program being created to replace the electrical sciences and systems engineering specialization. The electrical engineering major is virtually the same as the electrical sciences and systems engineering specialization and is accredited by the Accreditation Board for Engineering and Technology (ABET).

First Year		Fall	Spring
*ENGR 100	Introduction to Engineering	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	3	3
*GE-D 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GE-E	Human Health and Well Being (select) ^{1,2}	-	2
*CHEM 222a,c	Intro. to Chemical Principles and Lab ³	4	3
*MATH 150, 250	Calculus I & II ³	4	4
		17	17

Second Year		Fall	Spring
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics) ⁴	2	3
*GE-A	Introductory Biology or Zoology	3	-
GE-B	Social Studies (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	-	3
*GE-D 153	Public Speaking	3	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics and Lab ³	4	4
		17	16

*Required courses for a major in Engineering.

¹ See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses.

² Major requirements due to accreditation standards must include sixteen hours of Humanities and Social Studies; six or seven hours of oral and written communications and eighteen hours of basic science.

³ Substitutes for General Education requirements.

⁴ ENGR 260B is optional, for electrical engineering students.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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; 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, CE, EE, EM, ME, and MNGE.

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 three hours of English Composition, two hours of Technical Writing; three hours of Speech; eight hours of University Physics; seven hours of Chemistry; 11-14 hours of Math, including Calculus; two hours of Analytical Mechanics (Statics); and three hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

Representative First Job Titles: Electrical Engineer, Product Development and Design Engineer, Product Application and Test Engineer, Sales, Operations Research Analyst, Patent Engineer, Communications Engineer, Computer Engineer, Power Engineer, Systems Engineer, Electronics Engineer, Software Engineer, Control Engineer, Digital Signal Processing Engineer.

The 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 3081GX 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>
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-D 101	English Composition	3	-
STC 120, 220	Applied Accounting	3	3
STC 102 or GE-D 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
EDP 135	Data Processing Math	3	-
		<u>18</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
Elective	Approved Social Science	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	3	3
		<u>14</u>	<u>16</u>

Electronic Data Processing As A Major

A minimum of 60 hours of credit must be completed for graduation. A minimum grade of 'C' is required in all courses with an EDP prefix.

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

Electronic Data Processing As A Minor

Twenty hours of work in electronic data processing and related courses are required for a minor. A list of required courses is available from the program coordinator.

Representative First Job Titles: Computer Programmer, Systems Analyst.

ELECTRONICS MANAGEMENT
School of Technical Careers
(Bachelor of Science)

Dr. Rod Broker, Advisor
Division of Advanced Technical Studies
Telephone - 618-536-6682
STC Building, Room 126

The Division of Advanced Technical Studies (ATS) in the School of Technical Careers offers a bachelor of science degree in electronics management. The electronics management major combines advanced technical training with development of supervisory and management skills. Electronics management graduates enter a variety of electronic careers specialties including communications, automotive, avionics, personal computers, and biomedical applications.

The bachelor of science degree in electronics management allows students with an associate in applied science degree to build upon their technical training through a combination of ATS core courses, major requirements, approved major electives and SIU general education requirements.

The 45 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 45 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

First Year

GE-A	Science (select)	3	3
GE-B	Social Science (select)	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	4
GE-E	Human Health & Well Being (select) ¹	2	-
Electives or	Technical Specialization	7	5
		<u>18</u>	<u>18</u>

Second Year

GE-A	Science (select)	3	-
GE-B	Social Science (select)	3	3
GE-C	Humanities (select)	-	3
GE-D 118	Technical Report Writing	-	2
GE-D 152	Interpersonal Communication or		
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being (select)	-	2
Electives or	Technical Specialization	9	8
		<u>18</u>	<u>18</u>

*GE Total = 45 hours. See advisor to determine eligibility for Capstone option.

Third and Fourth Years

ATS core courses - 12 hours required.

ATS 364	Work Center Management	3
ATC 416	Applications of Technical Information	3

Two of the following:

ATS 332	Labor Management Problems	3
ATS 383	Data Interpretation	3
ATS 421	Professional Development	3
		<u>12</u>

Electronic Management Specialization Requirements - 15 hours

ELT 301	Biomedical Instrumentation Lecture	5
ELT 302	Optical Electronics Lecture	4
ELT 303	Microcomputer Const. & Trblsh. Lecture	5
ELT 304	Communication Systems	4
ELT 311	Biomedical Instrumentation Lab	6
ELT 312	Optical Electronics Lab	2
ELT 313	Microcomputer Const. & Trblsh. Lab	6
		<u>15</u>

NOTE: At least one set of ELT lecture and lab courses is required.

Electronics Management Specialization Electives - 9 hours

Courses must be approved by advisor.

Internship, Independent Study or approved equivalent - 12 hours.

Approved career electives - 27 hours.

TOTAL = 120 hours.

Representative First Job Titles: Electronics Technician, Service Representative.

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 both practical and theoretical experiences in electrical power.

Students will gain a thorough understanding of AC-DC and active element circuits so that they can design, construct, test and analyze new types of circuitry. They will learn digital circuits and CAD as well as industrial systems to include Robots 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>
GE-D 101	English Composition	-	3
GE-D 153	Public Speaking	-	3
STC 105a,b	Technical Mathematics	4	-
ELT 101	AC-DC Circuit Analysis Theory	5	-
ELT 111	AC-DC Circuit Analysis Lab	6	-
ELT 121	Electronics Devices	3	-
ELT 102	Electronics Circuits Theory	-	5
ELT 112	Electronics Circuits Laboratory	-	6
ELT 224	Computer System Applications	-	3
		<u>18</u>	<u>20</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
STC 102 or GE-D 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	Electronics Systems Analysis	3	-
ELT 202	Digital Electronics Theory	-	5
ELT 212	Digital Electronics Laboratory	-	6
EDP 217 or CS 202 or CS 212	Computing for Business Administration or Intro to Computer Programming or Intro to Business Computing	-	3
ELT 223	FCC Test Preparation	-	3
		<u>18</u>	<u>19</u>

Electronics Technology As A Major

Graduates are employed by major corporations such as: General Electric, Emerson Electric, AT&T Bell Research Laboratories, IBM, General Tire and Rubber Company, Digital Equipment Corporation, Texas Instruments, Rockwell, General Telephone (Automatic Electric), Motorola, and McDonnell-Douglas. About 60% of these graduates work in indirect support positions and the remaining 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 to include Microprocessors and Computer Aided Design and Industrial Systems which includes Robotics and other principles used in the electronics industrial world. Throughout the four semesters of study, students will have a minimum of ten hours of laboratory experiences (hands on) per week. Each laboratory class requires projects the student will design and construct. Second year students select projects related to personal interest within the framework of the class. While hands on experience is stressed, it by no means implies that theory is underemphasized. Each student receives eight hours per week of electronics theory lectures. Curriculum of both lectures and laboratories are constantly changing based on input from a very active Advisory Committee which is made up of representatives from IBM, AT&T, Texas Instruments, ITC/3M, Elcon Systems, Caterpillar, ALCOA, Zenith, Motorola, Gould, Delco, Emerson Electric, and McDonnell-Douglas.

Workbooks and supplies required for laboratory courses cost approximately \$150.00. A minimum of 72 hours of credit must be completed for graduation.

Students who wish to complete a four year degree may do so in the School of Technical Careers. Advanced electronics courses are available in biomedical electronics, optoelectronics, microcomputer construction, communication systems electronics and computer maintenance. While it is possible to enter the four year program as a transfer student, it is highly recommended each student enter the associate degree program in electronics at SIU to ensure all skills are obtained that are expected in the advance electronics courses.

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

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>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	3	3
GE-C	Humanities, Fine Arts (select) ^{1,2}	3	3
GE-D 101	English Composition ²	3	-
GE-D 117	Expository Writing ²	-	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking ²	3	-
GE-E	P.E. Activity ²	2	-
GE-E 201	Healthful Living ²	-	2
LANGUAGE ARTS	(select) ²	-	3
ED 201	Teacher's Role in Public School Education	-	1
		<u>17</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	2
GE-B 202	Introduction to Psychology ²	3	-
GE-B 301	History of U.S. ²	-	3
GE-C	Literature (select) ² (or English required)	3	-
MATH 114	Algebraic and Arithmetic Systems	3	-
MATH 314	Math for Elementary Teachers	-	3
MUS 101	Music Fundamentals (or GSC Music)	-	3
GE	Area of Interest (select) ^{2,3}		
GE-B 212	Introduction to American Government and Politics ²	3	-
		<u>15</u>	<u>15</u>

¹ See section on General Education for the Transfer Student.

² Teacher certification requirements.

³ Eight hours must be taken for an area of interest in one of the following: science, language arts, social studies, math, language other than English, media, multicultural studies, the arts, physical education or environmental education. Courses selected must be ones in addition to those used to meet general education 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

Engineering Mechanics Option
College of Engineering and Technology
(Bachelor of Science)

Dr. Philip K. Davis
Telephone - 618-536-2368
Technology Building, Room D23

See also: civil engineering, electrical engineering, engineering: thermal and environmental option, mechanical engineering, and mining engineering.

The engineering mechanics option is designed to help students prepare for a broad professional career in theoretical and applied mechanics or to prepare for graduate studies. Inherent in the program is a broad foundation in the basic engineering sciences. Coursework is offered by the department in theoretical and experimental stress analysis, vibrations, design, mechanics of materials, fluid mechanics, soil mechanics and foundations, structural analysis and design, numerical methods, and supersonic flow. The student, with the help of an adviser, is encouraged to choose a sequence of technical electives to achieve a solid and coherent specialization.

The four year undergraduate program leading to the Bachelor of Science degree in engineering with a specialization in engineering mechanics is a modern, flexible curriculum. The option in engineering mechanics is fully accredited by the Accreditation Board for Engineering and Technology (ABET).

First Year		Fall	Spring
*ENGR 100	Introduction to Engineering	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	3	3
*GE-D 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GE-E	Human Health and Well Being (select) ^{1,2}	-	2
*CHEM 222a,c	Intro. to Chemical Principles and Lab ³	4	3
*MATH 150, 250	Calculus I & II ³	4	4
		17	17
Second Year		Fall	Spring
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
*GE-A	Introductory Biology or Zoology ²	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	-	3
*GE-D 153	Public Speaking	3	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics and Lab ³	4	4
		17	16

*Required courses for a major in Engineering.

¹See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses.

²Major requirements due to accreditation standards must include sixteen hours of Humanities and Social Studies; six or seven hours of oral and written communications and eighteen hours of basic science.

³Substitutes for General Education requirements.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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; 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, CE, EE, EM, ME, and MNGE.

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 three hours of English Composition, two hours of Technical Writing; three hours of Speech; eight hours of University Physics; seven hours of Chemistry; 11-14 hours of Math, including Calculus; two hours of Analytical Mechanics (Statics); and three hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

Career and Employment Opportunities

Engineering mechanics graduates are successfully employed in industries such as aerospace, automotive, equipment manufacture, research, consulting nuclear, and many others.

ENGINEERING

Thermal & Environmental Engineering Option
College of Engineering and Technology
(Bachelor of Science)

Dr. Albert C. Kent, Chairperson
Telephone - 618-536-2396
Technology Building, Room B36

See also: civil engineering, electrical engineering, engineering: engineering mechanics option, mechanical engineering, and mining engineering.

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 with a specialization in thermal and environmental engineering is fully accredited by the Accreditation Board for Engineering and Technology (ABET). This specialization provides a strong engineering sciences background with depth in thermal systems, pollution control or heat and mass transfer processes related to chemical processes.

First Year		Fall	Spring
*ENGR 100	Introduction to Engineering	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	3	3
*GE-D 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GE-E	Human Health and Well Being (select) ^{1,2}	-	2
*CHEM 222a,c	Intro. to Chemical Principles and Lab ³	4	3
*MATH 150, 250	Calculus I & II ³	4	4
		17	17
Second Year		Fall	Spring
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
*GE-A	Introductory Biology or Zoology ²	3	-
GE-B	Social Studies (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	-	3
*GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics and Lab ³	4	4
		17	16

*Required courses for a major in Engineering.

¹ See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses.

² Major requirements due to accreditation standards must include sixteen hours of Humanities and Social Studies; six or seven hours of oral and written communications and eighteen hours of basic science.

³ Substitutes for General Education requirements.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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; 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, CE, EE, EM, ME, and MNGE.

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 three hours of English Composition, two hours of Technical Writing; three hours of Speech; eight hours of University Physics; seven hours of Chemistry; 11-14 hours of Math, including Calculus; two hours of Analytical Mechanics (Statics); and three hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

Representative First Job Titles: Mechanical Engineer, Plant Engineer, Product Development and Design Engineer, Product Application and Test Engineer, Sales, Patent Engineer, Quality Assurance Specialist, Environmental Protection Engineer.

ENGINEERING TECHNOLOGY

(Civil)

(Electrical)

(Mechanical)

College of Engineering and Technology

(Bachelor of Science)

Mr. Timothy Ziegler

Telephone - 618-536-3396

Technology Bldg, Room D105

Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the technician and the engineer at the end of the spectrum closest to the engineer.

All curricula in Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. These include the Civil Engineering Technology, Electrical Engineering Technology, and Mechanical Engineering Technology curricula.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
CHEM 115	Chemistry ¹	-	3
GE-B	Social Science (select)	3	3
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	2	-
ET 103, 104	Engineering Drawing I, II ²	3	3
MATH 111	College Algebra and Trigonometry ¹	5	-
MATH 150	Calculus I	-	4
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	-	3
GE-C	Humanities (select)	-	3
GE-D 153	Public Speaking	3	-
ET 245a	Electrical Systems for Industry	-	3
ET 260a,b	Principles of Mechanics, Statics & Dynamics	3	3
MATH 250	Calculus II	4	-
PHYS 203a,b & 253a,b	College Physics and Lab ¹	4	4
ENGR 222	Computational Methods	<u>2</u>	<u>-</u>
		<u>16</u>	<u>16</u>

¹Substitutes for General Education.

²Only students specializing in Mechanical Engineering Technology are required to take ET 104.

Engineering Technology As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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 115 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.

For the bachelor's degree the requirements are: 27 semester hours of mathematics and basic science; 25 semester hours of communications, humanities, and social studies; 65 semester hours of required and elective technology courses; and seven semester hours of specified electives.

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; by construction companies, testing laboratories and railroads; in the power and energy industries, in machinery manufacturing companies, and in many other areas.

Representative First Job Titles: Director of Engineering Technicians, Assistant Plant Engineer, Field Engineer, Engineering Technician, Technical Representative, Sales Engineer, Software Engineer, Assistant Engineer, Customer Tooling Engineer, Test Engineer, Systems Designer, Estimator, Surveyor, Structural Detailer, Power Engineer, Civil Engineer, Soil Mechanics Specialist, Sanitary Engineer, Plant Engineer, Electrical Equipment Manufacturers Engineer.

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>
GE-A	Science (select) ²	3	-
GE-B 212 or 301	American Government or U.S. History	3	-
GE-B 202	Introduction to Psychology	-	3
GE-C	Humanities (select) ²	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 117	Expository Writing	-	2
GE-E	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	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-B	Social Studies (select) ²	-	3
GE-C 330	Classical Mythology	-	3
GE-D 153	Public Speaking	3	-
GE-E 201	Healthful Living	2	-
ENG 209	Introduction to Forms of Literature	3	-
Electives ³		<u>5</u>	<u>6</u>
		16	15

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 Education 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.

In Addition

GPA 2.50 minimum for Teacher Education Program.

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

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

Dr. John M. Howell - Chairperson
Telephone - 618-453-5321
Faner 2370

The general background in English is designed for the student who desires a broadly based flexible education leading to a Bachelor of Arts degree with a concentration in English, American and world literatures, including study in the various forms and periods of literature. This specialization is preparatory for graduate study and for occupations placing more than usual emphasis upon effective communication and organization of ideas (e.g., journalism, publishing).

If you have an excellent undergraduate record, a taste for literary analysis and criticism, and a desire to teach young adults rather than adolescents, you might want to consider college teaching as a career. This specialization, which allows a great deal of flexibility in choosing upper-division courses, is specifically designed for the student planning to attend graduate school. The program is designed to give the student a thorough background in composition, language, and literature, both contemporary and historic.

The preprofessional specialization in English is designed for the student who wants to write clearly and effectively and to read with greater understanding. In its emphasis upon language and communication, this program may be particularly attractive to pre-law students. Surveys also show that the English major's verbal abilities are highly desirable in business and government. Courses in literature are included to refine the student's awareness of language, capacity for analytic thinking, and understanding of human behavior.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	3
GE-C 330	Classical Mythology ²	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		14	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	-
FL	Foreign Language ³	4	4
ENG	English Literature ²	-	3
ENG	American Literature ²	3	-
MATH or CS	or Computer Science ⁴	-	3
Elective ⁵		<u>3</u>	<u>4</u>
		16	14

¹See General Education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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 SIU. Any of the English options may be modified by entry into the departmental honors program.

Representative First Job Titles: Customer Services Personnel, Publications Personnel, Executive Secretary, Copywriter, Correspondent, Critical Writer, Feature Writer, Program Assistant, Reporter, Assistant Librarian, Rewriter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Interpreter.

The major in English may be pursued through the College of Liberal Arts or the College of Education if you are considering teaching English in secondary schools as a profession. The program is designed to give the student a thorough background in composition, language, and literature. The various forms of English, American and continental literature, contemporary and historic, are studied. The undergraduate major is preparatory for teaching, graduate study, or positions requiring effective communication of ideas.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science	3	-
GE-B 202	Introduction to Psychology ²	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 101 & 117			
118 or 119	English Composition and Writing (select) ^{1,2}	3	2
GE-D 107	Intermediate Algebra	-	3
GE-D 153	Public Speaking	-	3
GE-E	Human Health and Well Being--activity (select) ^{1,2}	-	2
GE-E 201	Healthful Living ²	<u>2</u>	<u>-</u>
		14	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 212 or 301	Intro to Am. Gov't or U.S. History ²	3	-
GE-A	Science (select) ¹	3	-
FL	Foreign Language ³	4	4
ENG	English Literature ⁴	-	3
ENG	American Literature ⁴	3	-
MATH OR CS	or Computer Science ⁵	-	3
Elective		<u>3</u>	<u>4</u>
		16	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 Education 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, four of these hours may be used for GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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.

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 SIU.

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 GPA in the major and successful ('C' or better) completion of English 300, Introduction to Language Analysis, for recommendation to Unconditional Status in the Teacher Education program.

Any of the English options may be modified by entry into the departmental honors program.

Students who wish to pursue and refine an interest in literature and language through their creative abilities may choose this specialization. The equivalent of seven courses, beyond the core curriculum required of all English majors, are offered on-campus, culminating in a senior writing project--a directed written project such as a collection of short stories or poems, a novel or a play. All instructors of these courses are people who have published their own creative writing and the major thrust of the work will be toward publication. An alternative to the senior project may be an internship in a publishing firm if appropriate arrangements can be made.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	3
GE-C 330	Classical Mythology ²	3	-
GE-D 101, 119	English Composition and Creative Writing ²	3	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	<u>2</u> 14	<u>2</u> 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	-
FL	Foreign Language ³	4	4
ENG 281,282,283	Beginning Fiction, Poetry, Drama ²	3	3
MATH or CS	or Computer Science ⁴	-	3
Elective ⁵		<u>3</u> 16	<u>6</u> 16

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

²Required by the major. The student should select two courses from 281, 282, and 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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 SIU.

Any of the English options may be modified by entry into the departmental honors program.

Representative First Job Titles: Customer Services Personnel, Public Relations Officer, Publications Personnel, Executive Secretary, Announcer, Continuity Writer, Copywriter, Correspondent, Critical Writer, Editorial Writer, Feature Writer, Program Assistant, Reportr, Assistant Librarian, Rewriter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Recreation Specialist, Interpreter.

FINANCE

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

Dr. Iqbal Mathur, Chairperson
Telephone - 618-453-2459
Henry J. Rehn Hall, 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>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
*GE-B 202	Introduction to Psychology	-	3
GE-C-3 or	Humanities (select) ¹ or Human Health		
GE-E-2	and Well Being (select) ¹	3 (2)	-
GE-C	Humanities (select) ¹	-	3
*GE-D 101	English Composition	3	-
MGT 202	Administrative Communications ²	-	3
*MGT 208	Interpretation of Business Data	-	4
*MATH 116-5 or	Finite Mathematics and Algebra or Finite Mathematics		
139-3			
		3 (5)	-
		14-16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-C-3 or	Humanities (select) ¹ or Human Health		
GE-E-2	and Well Being (select) ¹	3 (2)	-
GE-A/B/C	General Education Electives	-	3
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or	Intro. to Computer Programming (Pascal) or		
EDP 217	Computing for Business Admin. (Fortran)	-	3
*MATH 117 or	Finite Mathematics and Calculus or Short		
140-4	Course in Calculus	4 (5)	-
*ECON 214, 215	Economics, Macro and Micro ³	3	3
		14-16	15

*Required course for a major in Finance.

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

²MGT 202 substitutes for GE-D 118.

³ECON 214 or 215 counts toward GE-B 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.

The Division of Advanced Technical Studies in the School of Technical Careers offers a Bachelor of Science in Technical Careers degree. The Bachelor of Science in Technical Careers degree is designed to provide technically-oriented programs of study which are made up of required core courses, program major requirements, approved major electives, approved technical electives, and SIU general education requirements.

Students who meet the University's baccalaureate admission requirements are eligible for admission. Transfer students must have a cumulative 2.0 GPA or better, based on SIU coursework, to enter.

A minimum of 30 semester hours in program core and major courses must be taken with SIU, with at least 24 of these hours taken after admission to the program. Students must complete all coursework in the program core and major requirements and elective areas with a 2.0 GPA or better. Additionally, students must fulfill all University requirements including general education, total hour requirements, residency requirements, and grade point average requirements.

Qualified students may be admitted to the Capstone option. This option reduces the number of hours required in general education from 45 to 30. Graduates of two-year occupational programs are encouraged to investigate and pursue the Capstone option. Students holding associate degrees (or equivalent certification) of at least 60 semester hours in non-baccalaureate programs with a minimum grade point average of 2.25 are eligible. Qualified students can fulfill the Bachelor of Science in Technical Careers degree requirements by completing 60 additional semester hours of work approved by a Capstone advisor.

General education requirements may be satisfied by completing courses at any accredited institution of higher education or by credit received through CLEP, USAFI, DANTES, or proficiency examinations. Credit for health and physical education will be awarded for 12 or more months of military service.

Provision is made for recognizing many forms of previous educational, military, and occupational experience for credit toward the degree. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's advisor.

Admission to the Bachelor of Science in Technical Careers program does not imply admission to any STC associate degree program.

Fire Science Management Major (off-campus only)

This major is designed to provide advanced practical coursework in the areas of management and supervision. It is designed primarily for students who hold or are nearing completion of the Associate in Applied Science degree or its equivalent in a fire science-related field from a technical institute or community college. This major is presently offered only at off-campus sites.

Many graduates from the major are employed in supervisory and management positions in the fire service, insurance industry, fire equipment manufacturing industry, and related fields.

General Education Requirements	45
Requirements for Major	48
Core Requirements: ATS 364, 416, and two of the following: ATS 332, 383, 421	12
Fire Science Management Major Requirements: 15 hours selected from ATS 387, 402, 412, POLS 340, 443, IT 465	15
12 hours of internship, independent study, or approved equivalent	12
Fire Science Management Major Electives: 9 hours approved by advisor	9
Electives	<u>27</u>
TOTAL	120

FOOD AND NUTRITION

(Dietetics)

Department of Animal Industries

School of Agriculture

(Bachelor of Science)

Dr. A.W. Young, Chairperson

Telephone - 618-453-2329

Agriculture Building, Rm. 127

These courses give a strong scientific education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and community organizations. They meet the academic requirements of the American Dietetics Association.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology ¹	3	-
GE-B 104 or 108	The Human Experience: Anthropology or Sociological Perspective ¹	3	-
GE-C	Humanities (select) ²	3	3
GE-D 101	English Composition	3	-
GE-D 118 or 119	Technical Report Writing or Creative Writing ¹	-	2
GE-D 107	Intermediate Algebra ¹	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ²	1	-
F&N 100	Fundamentals of Nutrition	-	3
EDP 107	Electronic Data Processing Concepts	-	3
		<u>16</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology ¹	3	-
GE-B 211	Contemporary Economics ¹	-	3
GE-C	Humanities (select) ²	3	-
GE-A, B, C	(select) ²	-	3
GE-E	Human Health and Well Being (select) ²	2	1
CHEM 140a,b	Chemistry ³	4	4
CIM 237	Early Child Development I	3	-
MICR 301	Principles of Microbiology	-	4
		<u>15</u>	<u>17</u>

¹Required General Education courses.

²Refer to section on General Education for the Transfer Student.

³Chemistry 140a counts as GE-A credit. The chemistry requirement may be met by chemistry 222a,b; 340; 450. This sequence of chemistry is required for the clinical dietetic option.

Third and Fourth Year

The last two years of a student's program includes courses in nutrition, food service systems, diet therapy, and foods.

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)

Department of Animal Industries
School of Agriculture
(Bachelor of Science)

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

These courses prepare students for positions as food systems managers for restaurants, hotels, school food service, public and private 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>
GE-A 115	Biology ¹	3	-
GE-B	Social Sciences (select) ²	3	3
GE-C	Humanities (select) ²	-	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ²	3	2
GE-D 107	Intermediate Algebra	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ²	2	1
CHEM 140a	Chemistry ³	-	4
		<hr/> 15	<hr/> 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology ¹	-	3
GE-C	Humanities (select) ²	3	3
GE-A/B/C	Select ²	2	-
GE-E	Human Health and Well Being (select) ²	2	-
ACCT 220, 230	Principles of Accounting I & II	3	3
F&N 100	Fundamentals of Nutrition	3	-
MICR 301	Principles of Microbiology	-	4
PHSL	Physiology ⁴	3	-
Electives		-	3
		<hr/> 16	<hr/> 16

¹ Required General Education courses.

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

³ Chemistry 140a counts as GE-A credit.

⁴ A course in physiology approved by the department.

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 and lodging management. This major stresses the functions of organization and management in the hospitality industry.

Representative First Job Titles: Food Service Supervisor, Food Technologist, Food and Drug Inspector, Food Buyer, Food Industry Technician, Food Products Salesman, Food Processing Technician, Quality Control Technician, Agricultural Commodities Inspector, Consumer Safety Inspector, Research for Consulting Firm, Food and Beverage Control Officer.

FOOD AND NUTRITION

(Food and Nutrition Science)
Department of Animal Industries
School of Agriculture
(Bachelor of Science)

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

These courses give a strong scientific education to those interested in preparing for graduate study in food, nutrition or related disciplines; for research in university, industrial or governmental laboratories; or for educational and promotional work in industry or public health organizations.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology ¹	3	-
GE-B	Social Sciences (select) ²	3	3
GE-C	Humanities (select) ²	3	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ²	3	2
GE-E	Human Health and Well Being (select) ²	-	1
MATH 108, 109	College Algebra and Trigonometry ³	3	3
PHSL	Physiology ⁴	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology ¹	3	-
GE-C	Humanities (select) ²	-	3
GE-A, B, C	(select) ²	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ²	1	2
CHEM 222a,b	Introduction to Chemical Principles ⁵	4	4
F&N 100	Fundamentals of Nutrition	3	-
MICR 301	Principles of Microbiology	-	4
	Electives	-	<u>3</u>
		17	16

¹Required General Education courses.

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

³Math 108 meets the University Math requirements.

⁴A course in physiology approved by the department.

⁵Chemistry 222a counts as GE-A credit.

Third and Fourth Year

The last two years of a student's program concentrate on chemistry, nutrition, and biological sciences. Students in the food and nutrition science specialization gain experience in various research methodologies and develop a working knowledge of the scientific method.

Representative First Job Titles: Food Technologist, Food and Drug Inspector, Food Buyer, Food Industry Technician, Food Products Salesman, Food Processing Technician, Food Service Supervisor, Quality Control Technician, Agricultural Commodities Inspector, Consumer Safety Inspector, 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>
GE-A	Science (select) ¹	3	-
GE-B 301	History of U. S.	3	-
GE-B 202	Introduction to Psychology	-	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 117	Expository Writing	-	2
GE-E	PE Activity ¹	2	-
GE-E 201	Healthful Living	-	2
ED 201	Teacher's Role in Public School Education	-	1
FL	Elementary French, German, Latin, Spanish, or Russian	4	-
FL	Continue above	-	4
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	-	3
GE-C	English elective in Humanities (select) ¹	3	-
GE-C	Humanities (select) ¹	3	3
GE-D 153	Public Speaking	-	3
FL	Intermediate French, German, Latin, Russian, or Spanish	4	4
Elective		<u>2</u>	<u>-</u>
		<u>15</u>	<u>16</u>

¹Refer to section General Education for the Transfer Student.

Courses required for certification include GE-B 202; GE-B 212 or GE-B 301; GE-D 101; GE-D 117, 118, or 119; GE-D 153; GE-E 100-114 (2 hours); GE-E 201; one additional English course from GE-C, GE-D, 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.

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>
GE-A 118	Introductory Zoology	4	-
GE-C	Humanities (Select) ²	-	3
GE-D 101	English Composition	3	-
GE-E	Human Health and Well Being (select) ²	2	-
BOT 200	General Botany with Lab ¹	-	4
CHEM 140a & b	Chemistry ¹	4	4
MATH 140	Calculus ¹	-	4
FOR 200	Introduction to Forestry	1	-
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	3	3
GE-C	Humanities (select) ²	-	3
GE-D 118	Technical Report Writing	2	-
GE-D 153	Public Speaking	-	3
ABE 204	Agricultural Economics ¹	-	3
BIOL 307	Environmental Biology ¹	3	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	-
MATH 283	Introduction to Applied Statistics	3	-
PLSS 240	Soil Science	-	4
		<u>15</u>	<u>16</u>

¹Substitutes for General Education requirements.

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

Third and Fourth Years

The last two years of study is concentrated in a series of forestry and related areas which enable the student to develop professional competencies in the management of forest resources. Students gain experience with field applications of professional skills during a five week early summer session immediately following the junior year.

Forestry As A Major

Available to the Department of Forestry for teaching and research are the following: the Crab-Orchard National Wildlife Refuge; the Shawnee National Forest; the Union State Tree Nursery and Forest; 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 118	Introductory Zoology	4	-
GE-B	Social Studies (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition	3	-
GE-E	Human Health and Well Being (select) ²	-	1
BOT 200	General Botany with Lab ¹	-	4
CHEM 140a & b	Chemistry ¹	4	4
FOR 200	Introduction to Forestry	1	-
MATH 140	Calculus ¹	-	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	3	3
GE-C	Humanities (select) ²	3	3
GE-D 117,118,119	Writing (select) ²	2	-
GE-E	Human Health and Well Being (select) ²	1	2
BIOL 307	Environmental Biology ¹	3	-
FOR 201	Ecology of North American Forests	3	-
FOR 202	Tree Identification Lab	1	-
PLSS 240	Soil Science	-	4
	Elective	-	3-5
		<u>16</u>	<u>15-17</u>

¹Substitutes for General Education requirements.

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

Third and Fourth Year

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

¹Substitutes for General Education requirements.

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

Third and Fourth Year

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) has the option to 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. As an alternative or for additional credit, students who can enter at the 200 level or above 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>
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
FR 123a,b	Elementary French ²	4	4
GE-D 107	Intermedite Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	<u>2</u>	<u>-</u>
		15	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
FR 201a,b	Intermediate French ³	4	4
FR 220a,b	Intermediate French Conversation ⁴	2	2
MATH or CS	or Computer Science ⁵	<u>-</u>	<u>3</u>
		15	15

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

¹See General Education 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 usually 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), 14 hours on the 400 level (may include FL 436), and one literature course at the 300 or 400 level is required. A minor in French consists of 18 semester hours in courses above the 100 level (to include 320). Transfer students who major in a foreign language must complete a minimum of 12 semester hours in language courses at SIU.

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>
GE-A	Science (select) ²	3	3
GE-B 103	Geography of the Human Environment	3	-
GE-C	Humanities (select) ²	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118			
or 119	Writing (select) ²	-	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ²	2	-
GE-E 201	Healthful Living ²	-	2
ED 201	The Teacher's Role in Public School Education	1	-
		<u>15</u>	<u>13</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	-
GE-B 212 or 301	American Government or History of U.S. ²	3	-
GE-C	English elective in Humanities (select) ²	3	-
GE-D 153	Public Speaking ²	-	3
GEOG 300	Introduction to Geography	-	3
GEOG 302	Physical Geography	-	3
GEOG 310	Introduction to Cartography	3	-
Electives ^{2,3}		<u>3</u>	<u>6</u>
		<u>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 Education for the Transfer Student. The following specific General Education courses are required for teacher certification (these courses may be completed during the freshman or sophomore years): GE-B 202, Introduction to Psychology; GE-D 212, Introduction to American Government and Politics or GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118, or 119, Expository, Technical, or Creative Writing; GE-D 153 Public Speaking; GE-E 110-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D 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>
GE-A	Science (select) ¹	3	3
GE-B 103	Geography of the Human Environment (optional)	3	-
GE-C	Humanities (select) ¹	3	3
GE-D 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	2	2
		<u>14</u>	<u>13</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	3
FL	Foreign Language ²	4	4
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GEOG 310	Introductory Cartography ⁴	-	3
GEOG 300	Introduction to Geography ³	3	-
MATH or CS	Mathematics or Computer Science ⁵	-	3
Elective		3	-
		<u>16</u>	<u>15</u>

*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 Education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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.

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.

The department maintains the Environmental Simulations Laboratory (ESL) which develops software for computer simulation of environmental problems such as air and water pollution, floods, and earthquakes. The personal computer facilities of the ESL are used extensively for individualized instruction and computer assisted instruction in the classroom.

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, Cartographer, Map Cataloger, Regional Analyst, Photo-Intelligence Specialist, Climatological Analyst, Air Traffic Controller, Map Librarian, Location Analyst, Weather and Climate Analyst, Sales Representative, Planner, Conservation Specialist.

GEOLOGY

College of Science
(Bachelor of Science)
(Bachelor of Arts)

Dr. John E. Utgaard
Departmental Executive Officer
Telephone 618-453-3351
Parkinson Laboratory, Room 102

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 quality and 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 SIU can provide students with sound, broad training in geology.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Sciences (select)	-	3
GE-D 101	English Composition	3	-
GE-D 117 or 118	Expository Writing or Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	1	1
CHEM 222 a,b	Introduction to Chemical Principles ^{1,4}	4	4
GEOL 220	Physical Geology ¹	3	-
GEOL 221	Historical Geology	-	3
MATH 108,109	College Algebra and Trigonometry ^{1,4}	3	3
		14	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-C	Humanities (select)	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select)	1	1
FL	German, Russian or French recommended ^{1,4}	4	4
GEOL 310 or	Mineralogy ² or	4	-
MATH 150	Calculus I ³	(4)	-
GEOL 474 or	Geomorphology ² or	-	3
GE-B	Social Sciences (select)	-	(3)
PHYS 203, 253	College Physics or University Physics ^{1,3}	4	4
or 205, 255			
		16	15

¹Substitutes for General Education 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 and 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, six semester hours of physical sciences, and six semester hours of biological sciences.

Third and Fourth Years

The last two years of a student's program allow some concentration on 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. SIU is located close to a variety of geologic settings suitable for field research.

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 state of the art 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, Environmental Scientist, Economic Geologist, Geochemist, Geological Engineer, Geological Oceanographer, Geological Researcher, Geophysical Exploration Scientist, Geophysicist, Groundwater Geologist, Petroleum Geologist, Photogeologist, Resource Evaluator, Sedimentologist, Stratigrapher, Surveying Geologist, Geomorphologist, Structural Geologist, Product Studies and Testing Geologist, Seismologist, Paleontologist, Laboratory Assistant, Teacher.

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) has the option to 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).

First Year		Fall	Spring
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GER 126a,b	Elementary German ²	4	4
GE-E	Human Health and Well Being (select) ¹	2	-
GE-D 107	Intermediate Algebra	-	3
		15	15
Second Year		Fall	Spring
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GER 201a,b	Intermediate German ³	4	4
GE-E	Human Health and Well Being (select) ¹	2	-
MATH or CS	or Computer Science ⁴	-	3
		15	13

*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 Education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C. 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 SIU.

Representative First Job Titles: Airline Stewardess, Customer Services Personnel, Executive Secretary, Copywriter, Reporter, Technical Writer, Educational Television Staff, Manufacturer's Representative, Sales Agent, Recreation Specialist, Interpreter.

HEALTH CARE MANAGEMENT
School of Technical Careers
(Bachelor of Science)

Dr. Elaine M. Vitello, Coordinator
Division of Advanced Technical Studies
Telephone - 618-536-6682
STC Building, Room 126

The Division of Advanced Technical Studies (ATS) in the School of Technical Careers offers a bachelor of science degree in health care management (HCM). The health care management major provides coursework and experience across the spectrum of health care supervision and management. Many HCM graduates obtain supervisory and administrative positions in various health and medical care facilities such as hospitals, nursing homes, public health departments, voluntary health agencies, and health care training institutions.

The bachelor of science in health care management allows students who have completed an A.A.S. degree or diploma program to build upon their technical training through a combination of core courses, major requirements, approved major electives, and SIU general education requirements.

The 45 hour general education requirement may be satisfied by completing courses at any accredited college or university, credit received through CLEP, USAFI, DANTES or through proficiency examinations. Students who have completed an A.A.S. degree may be eligible for the Capstone option. This option reduces the hours required in general education from 45 to 30. Students may also receive credit for previous educational, military and occupational experience. Credit is established by departmental evaluation. In addition, field internships and independent study opportunities are available upon approval by the student's faculty advisor.

First Year

GE-A	Science (select)	3	3
GE-B	Social Science (select)	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	4
GE-E	Human Health & Well Being (select)	2	-
Electives or	Technical Specialization	7	5
		<u>18</u>	<u>18</u>

Second Year

GE-A	Science (select)	3	-
GE-B	Social Science (select)	3	3
GE-C	Humanities (select)	-	3
GE-D 118	Technical Report Writing	-	2
GE-D 152	Interpersonal Communication or		
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being (select)	-	2
Electives or	Technical Specialization	9	8
		<u>18</u>	<u>18</u>

*GE Total = 45 hours. See advisor to determine eligibility for Capstone option.

Third and Fourth Years

ATS core courses - 12 hours required.

ATS 364	Work Center Management	3
ATC 416	Applications of Technical Information	3

Two of the following:

ATS 332	Labor Management Problems	3
ATS 383	Data Interpretation	3
ATS 421	Professional Development	3
		<u>12</u>

Health Care Management Specialization Requirements - Minimum 15 hours

ATS 380	Seminar in Health Care Services	3
ATS 381	Health Care Management	3
ATS 382	Health Economics	3
ATS 384	Equipment and Material Management	3
ATS 385	Fiscal Aspects of Health Facilities	3
ATS 388	Legal Aspects of Health Care	3
		<u>15</u>

Health Care Management Specialization Electives - 9 hours.
Courses must be approved by advisor.

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

Approved Career Electives - 27 hours.

TOTAL - 120 hours.

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>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select) ¹	-	2
GE-E	Human Health and Well Being (select) ¹	2	2
Electives	Including P.E. Activity	<u>2</u>	<u>3</u>
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	3
GE-	Additional course work from A, B, or C (select) ¹	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-D 107	Intermediate Algebra	-	3
Electives		<u>6</u>	<u>6</u>
		15	15

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

Third and Fourth Years

For the remaining years of the degree program, the student will concentrate on specific requirements in health education and related areas.

The community health specialization is also an attractive bachelor's degree alternative for students holding an associate in applied science degree in a health field.

HEALTH EDUCATION
(Health Education in Secondary Schools)
College of Education
(Bachelor of Science)

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>
GE-A	Science (select) ¹	3	3
GE-B 202	Introduction to Psychology ²	3	-
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition ²	3	-
GE-D 117, 118 or 119	Writing (select) ^{1,2}	-	3
GE-D 107	Intermediate Algebra	-	3
GE-E 201	Healthful Living ²	-	2
GE-E	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>
GE-A	Science (select) ¹	-	3
GE-B 301 or 212	History of U.S. or American Government ²	3	-
GE-B	Social Science (select) ¹	-	3
GE-C	English Elective in Humanities (required) ²	3	-
GE-D 153	Public Speaking ²	-	3
GE-E	Human Health and Well Being ²	1	-
Electives		5	7
GE	Additional course from A, B, or C	3	-
		<u>15</u>	<u>16</u>

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

² The following specific General Education courses listed are required for Teacher's Certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics or GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical Report, or Creative Writing; GE-D 153, Public Speaking; GE-E 110-114 (2 hours), Physical Education activities; GE-D 201, Healthful Living; and one additional English course (GE-C, GE-D 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 "Third World" history offerings; i.e., either two courses in each of the three fields or three courses in each of two of the three fields. Illinois state certification requires a minimum of eight semester hours of American History. The student must also complete a total of three courses at the 400 level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select) ²	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118, or 119	Writing (select) ²	-	2
GE-D 153	Public Speaking	-	3
GE-E	Human Health and Well Being--activity	1	-
GE-E 201	Healthful Living	-	2
ED 201	Teacher's Role in Public School Education	-	1
HIST 205A	History of Western Civilization I	3	-
HIST 300	Origins of Modern America, 1492-1877	-	3
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	-
GE-B 301	Modern America from 1877 to Present	3	-
GE-B	Social Science (select) ²	-	3
GE-C	English Elective in Humanities (select) ²	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being--activity	1	-
HIST 205B	History of Western Civilization II	-	3
HIST	Electives	<u>6</u>	<u>6</u>
		<u>16</u>	<u>15</u>

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

² Refer to the section General Education for Transfer Students.

History As A Major

The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics OR GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118, 119, Expository, Technical, or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; one additional English course (GE-C, GE-D, or departmental).

HISTORY*
College of Liberal Arts
(Bachelor of Arts)

Dr. Howard W. Allen, Chairperson
Telephone - 618-453-4391
Faner, Room 3374

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 "Third World" 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 research paper prior to graduation.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
HIST 205	Western Civilization ²	3	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being (select) ¹	2	2
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B 301	Modern America - from 1877 to the Present ²	-	3
GE-B	Social Science (select) ¹	3	3
FL	Foreign Language ³	4	4
HIST 300	Origins of Modern America, 1492-1877 ²	3	-
MATH or CS	or Computer Science ⁴	-	3
Elective ⁵		3	3
		<u>16</u>	<u>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 Education 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. However, four of these hours may be used for GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

⁴One of these courses may be used to partially fulfill the Liberal Arts requirement.

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).

Third and Fourth Years

The history student has great flexibility in designing a third and fourth year program to meet specific career goals. Minimum requirements demand an additional twenty hours in the major, averaging one or two courses a semester. Additional courses may be devoted to studying some field of history in greater depth, or to developing a strong secondary field or job skill. Examples are computer science, foreign languages, secondary education, or journalism. When possible, transfer students should contact the department prior to their first semester of attendance. Transfer students must earn at least 16 semester hours of history credit at SIU.

History As A Major

Formerly, people thought that the only thing someone did with a history major was teach. Although that can be a fine career, the fact is that the majority of history majors do not teach. With a background in history many students enter library and archival work, government and diplomatic service or news and special events reporting. Currently, former SIUC history majors occupy positions in institutions ranging from the CIA and Chase-Manhattan Bank, through Sears Roebuck, British Airways, ABC, and Time-Life. The history major is also an excellent preparation for law school and for graduate work in a wide variety of fields.

Representative First Job Titles: Administrative Aide, Legal Assistant, Policy Researcher, Archival Worker, Records Manager, Museum Curator, Library Administrative Assistant, Market Researcher, Needs Analyst, Environmental Historian, Genealogical Researcher, Military Historian, Legislative Research Assistant, Editor or Editorial Assistant, Publishing Sales Representative, Peace Corps Volunteer, Historical Society Director, Newscaster, Budget Analyst, Teacher, Overseas Marketing Assistant, Corporate Archivist.

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

Phyllis Bubnas, 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>
GE-A	Science (select) ¹	3	3
GE-B 211 or 212	Contemporary Economics ² or Intro. to American Government and Politics	3	-
GE-C	Humanities (select) ¹	3	3
GE-C 101	Introduction to Art ²	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select) ¹	-	2
GE-E	Human Health and Well Being (select) ¹	2	2
GE	Electives	-	3
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B 108	The Sociological Perspective ²	-	3
GE-B 202	Introduction to Psychology ²	3	-
CIM 227	Marriage and Family Living	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-D 107	Intermediate Algebra	-	3
Electives		6	6
		<u>14 (15)</u>	<u>15</u>

¹Refer to section General Education 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

Phyllis Bubnas, 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>
GE-A	Science (select) ¹	-	3
GE-B 108	The Sociological Perspective	3	-
GE-B 212 or 301	Introduction to American Government & Politics or U.S. History	-	3
GE-C 101	Introduction to Art	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 101	English Composition	3	-
GE-D 116	Technical Report Writing	-	2
GE-E	Human Health and Well Being	-	2
F&N 100	Fundamentals of Nutrition	3	-
CHEM 140a	Chemistry ²	-	4
VES 338	Clothing Construction	-	2
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B 202	Introduction to Psychology	3	-
GE-E 201	Healthful Living	-	2
GE-C	Humanities (select) ¹	3	3
CIM 227	Marriage and Family Living	3	-
CIM 237	Child Development	-	3
CIM 336	Survey of Clothing	-	2
F&N 156	Fundamentals of Foods	3	-
CHEM 140b	Survey of Chemistry	4	-
GE-D 153	Public Speaking	-	3
		<u>16</u>	<u>16</u>

¹Refer to section General Education for the Transfer Student.

²Approved substitute for General Education.

Refer to Undergraduate Catalog for departmental requirements and requirements taught via General Education.

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

Phyllis Bubnas, 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. SIU is so approved for training home economics teachers.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 108	The Sociological Perspective	3	-
GE-C 101	Introduction to Art	3	-
GE-C	Humanities (select) ³	-	3
GE-D 107	Intermediate Algebra	3	-
GE-D 101	English Composition ¹	3	-
GE-D 117 or 118	Technical Report or Expository Writing ¹	-	2
GE-D 153	Public Speaking ¹	-	3
GE-E 201	Healthful Living ¹	-	2
CHEM 140	Chemistry ²	-	4
ED 201	Teacher's Role in Public School Education	-	1
F&N 100	Fundamentals of Nutrition	3	-
VES 338	Clothing Construction	-	3
		<u>15</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ³	3	3
GE-B 202	Introduction to Psychology ¹	3	-
GE-B 212	Introduction to American Government & Politics ¹	-	3
GE-C	English Elective in Humanities (select) ¹	-	3
GE-E	Human Health and Well Being (select) ¹	-	2
CIM 237	Early Child Development I	-	3
CIM 227	Marriage and Family Living	3	-
CEFM 340	Consumer Problems	3	-
F&N 156	Fundamentals of Foods	3	-
VES 320	Home Economics as a Profession	-	1
		<u>15</u>	<u>15</u>

¹The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics or GE-B 301, U.S. History; GE-D 101 English Composition, GE-D 117, 118 or 119, Expository Technical Report or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education activities; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D, or departmental).

²Substitutes for GE-A 106 Chemistry for Non-Science Majors.

³Refer to section General Education for the Transfer Student.

Home Economics Education As A Major

No minor required. No foreign language required.

Child Development practicum in nursery school; home management practicum; supervised student teaching in an area high school; field experience with a home economics extension advisor are available.

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

Phyllis Bubnas, 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>
GE-A	Science (select) ¹	3	3
GE-B 108	Sociological Perspective	3	-
GE-B 202	Introduction to Psychology ³	-	3
GE-C 101	Introduction to Art	3	-
GE-C	Humanities (select) ¹	3	-
GE-D 101	English Composition ³	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 118	Technical Report Writing ³	-	2
F&N 100	Fundamentals of Nutrition	-	<u>3</u>
<hr/>		15	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 153	Public Speaking ³	3	-
GE-B 212 or 301	Introduction to American Government & Politics or U.S. History ³	-	3
GE-C	English Elective in Humanities (select) ¹	3	-
GE-E 201	Healthful Living ³	2	-
GE-E	Human Health and Well Being (select) ^{1,3}	-	2
CHEM 140a	Survey of Chemistry ²	4	-
CIM 227	Marriage and Family Living	3	-
CIM 237	Early Child Development I	-	3
EDUC 201	Teacher's Role in Public School Education	1	-
VES 338	Clothing Construction	-	3
Elective		-	<u>3</u>
<hr/>		16	15

¹Refer to section General Education for the Transfer Student.

²Substitutes for GE-A 106, Chemistry for non-science majors.

³The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics, or GE-B 301, U.S. History; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical Report, or Creative Writing; GE-B 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; one additional English course (GE-C, GE-D, 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. Typical courses include robotics, processes, computer aided manufacturing, quality control, motion and time study, resource planning, and safety. Industrial Technology is an available Capstone option.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 106	Chemistry for Non-Science Majors ¹	-	3
GE-B	Social Science (select) (Psychology) ¹	3	3
GE-C	Humanities (select)	-	3
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	-	2
IT 105	Technical Sketching	3	-
MATH 111	Algebra and Trigonometry ²	5	-
MATH 140	Short course in Calculus	-	4
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Science (select)	-	3
GE-C	Humanities (select)	3	-
GE-D 153	Public Speaking	-	3
GE-E	Human Health and Well Being (select)	-	2
CS 212	Introduction to Business Computing	3	-
IT 208,209	Manufacturing Processes and Lab	3	3
IT 240	First Line Supervision (Human Relations)	3	-
PHYS 203a,b & 253a,b	College Physics and Lab ²	<u>4</u> 16	<u>4</u> 15

¹Recommended, not required.

²Substitutes for General Education requirements.

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.

For transfer students with an Associate of Applied Science degree in an occupational program, the required courses are dependent on the student's previous program.

Industrial Technology (Manufacturing) As A Major

Community college occupational and technical credit (data processing, electronics technology, management, marketing, mechanical technology, metals technology, plastics, transportation, building construction, architectural drafting to name a few) can be accepted as applicable towards degree requirements. This permits the student to obtain a Bachelor of Science degree in a minimum length of time.

For the bachelor's degree the recommended guidelines are met through the completion of 43 semester hours in the Industrial Technology core, and 31 in the technical specialization.

Career Opportunities

Employment opportunities for graduates are excellent which permits a wide range of initial job selectivity and more flexibility for later job promotion or job transfer. Federal statistics show that in the present decade, the need for technologists and related workers will continue. 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 manufacturing-related functions.

Representative First Job Titles: Manufacturing Manager, Production Planning and Control, Quality Assurance Specialist, Safety Engineer, Industrial Engineer, First Line Supervisor, Operations Planner, Marketing Support Engineer, Manufacturing Engineer, Salary Administrator, Plant Location Engineer.

INDUSTRIAL TECHNOLOGY
(Mining Technology Specialization)
College of Engineering and Technology
(Bachelor of Science)

Dr. Dale Besterfield
Telephone - 618-536-3396
Technology Bldg., Room D109

Industrial Technology (Mining) As A Major

The world-wide energy crisis has created a growing demand for coal and other mining products and the need for technologists and engineers in the mining industry is expected to increase dramatically in the next decade. To help meet this growing demand Southern Illinois University at Carbondale offers courses in mining technology which culminate in a Bachelor of Science degree in Industrial Technology. Industrial Technology is an available Capstone option.

The program is primarily designed to provide a capstone of subject matter for those students 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.

Career Opportunities

Employment opportunities in the mining industry are available in technical management positions for college educated people with mining experience.

Representative First Job Titles: Production Planning and Control, Safety Engineer, Motion and Time Study Analyst, First Line Supervisor, Operations Planner, Marketing Support Engineer, Manufacturing Engineer, Salary Administrator, Plant Location Engineer.

The interior design major offered by the School of Technical Careers is an architecturally oriented program accredited by the Foundation for Interior Design Education Research (FIDER). The student receives a comprehensive, interdisciplinary education in preparation for designing and administrative positions in the fields of residential, commercial, and contract design. The SIU Interior Design graduate is qualified to practice professionally in private practice, for interior design/space planning firms, for architectural firms as the interior designer or interior design team member, as a facilities planner for corporations, institutions and governmental agencies as well as in industrial design and sales.

The program emphasis is design with the required technical information to facilitate conception, development and execution of a student's ideas in conjunction with graphic and verbal communication skills.

In the world of interior design and architecture, the opportunities are more open and exciting than ever before. The vocabulary and pallet of design thinking and execution has never been as expansive as it is today. The need for students versed in the vocabulary of interior design within the context of architecture offers extensive professional opportunities. The program at SIU is a comprehensive four year program that encourages individuality in thinking. To be a good designer, one has to be a creative thinker and willing to look at alternatives of a possible design solution within the parameters of the project requirements which include the program, the budget and the project schedule. In developing the design solution for the client, the student is encouraged to solve the problems creatively. Once the ideas are conceived, it is very important to communicate this information verbally with the selling of one's design concept and graphically, with drawings such as plans, elevations, sections, details, perspectives, axonometric drawings, etc., and illustration such as furniture, lighting, color, materials, and finishes selections. The following is a recommended course of study for undergraduates.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 101, 117,			
118 or 119	English Composition ¹ and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra ¹	3	-
GE-E	Human Health and Well Being (select)	-	2
ART 110	Introduction to Drawing ²	3	-
STC 215a,b	Drafting Graphics ²	3	3
ID 111	Elements of Interior Design ²	3	-
ID 112	Principles of Interior Design ²	-	3
ID 142	Architectural Detailing ²	-	3
ID 234	Materials and Finishes ²	-	2
		<u>15</u>	<u>15</u>
<u>Second Year*</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	-	3
GE-C 205	Innovation for the Contemporary Environment	3	-
GE-	Select from Areas A,B,C,D,E	3	3
ID 221	Sketching Concepts ²	2	-
ID 222	Interior Design Presentation ²	-	3
ID 242	Interior Architectural Detailing ²	3	-
ID 262 & 363	History of Interior Design I/II ²	2	2
ID 351	Interior Design Programming ²	-	3
VES 335	Basic Textiles ²	2	-
		<u>15</u>	<u>14</u>

¹Required General Education courses. General Education courses other than those marked '1' are highly recommended for interior design majors.

²These courses are required for an Interior Design major. For specific information regarding the acceptibility of a major requirement from a junior college, you may contact the ID coordinator. A portfolio of work must be presented to, and approved by the ID coordinator for transfer credit.

*Transfer students should concentrate on General Education courses during the second year since more advanced major courses should be taken at SIU. Because of the large number of laboratory/studio 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.

Third and Fourth Years

Education during the third and fourth years consists of design studios and selected courses in advanced interior design and architecture. Special emphasis is given toward departmental requirements and recommended elective courses. Third and fourth year interior design courses include ID 334, 383, 384, 406, 462, 471, 495 and ID studios 391, 392, 493 and 496.

JOURNALISM

(News Editorial)

(Advertising)

(Photojournalism)

College of Communications and Fine Arts

(Bachelor of Science)

Dr. Vernon A. 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 the first writing course: JRNL 309 or JRNL 310.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Studies (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 101	English Composition	3	-
GE-D 117,118,119	Writing (select one) ¹	-	2
GE-D 152, 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ¹	1	1
Elective		3	-
JRNL 300	Mass Media in Modern Society	-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	-	3
GE-C	Humanities (select) ¹	3	3
GE-E	Human Health and Well Being (select) ¹	1	1
*JRNL 370	Principles of Advertising	3	-
*JRNL 310	Writing for the Mass Media	-	3
Electives		5	2
		<u>15</u>	<u>15</u>

*Required courses for major in Journalism.

¹See section on General Education for the Transfer Student.

Journalism As A Major

In addition to the General Education courses, the academic requirements for a Bachelor of Science Degree in Journalism include 30-34 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 Education courses and earn electives in areas of interest. It is preferred that students earn credit for courses in journalism skills at SIU.

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 Agency Account Executive, Advertising Copywriter, Advertising Layout Artist, Advertising Production Director, Advertising Salesperson, Assignment Editor, Cable Communication Coordinator, Copy Editor, Editor, Feature Writer, Graphic Designer, Magazine Production and Design Specialist, Magazine Writer, Media Account Executive, Media Planner, Media Researcher, News Editor, News Photographer, Newsletter Editor, Newspaper Circulation Manager, Photo Editor, Public Affairs Officer, Public Affairs Reporter, Public Information Specialist, Public Relations Representative, Public Opinion Researcher, Reporter, Retail Advertising Director, Sports Reporter, Teacher, Telecommunications Consultant.

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 135

Dr. 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>
GE-A	Science (select) ¹	3	-
GE-B 212 or 301	Introduction to American Government or U.S. History ²	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 101	English Composition ²	3	-
GE-D 153	Public Speaking ²	3	-
GE-D 117, 118 or 119	Writing (select) ^{1,2}	-	2
GE-D 107	Intermediate Algebra	-	3
GE-E 201	Healthful Living ²	-	2
GE-E	Human Health & Well Being-activity (select) ^{1,2}	2	-
ED 201	Teacher's Role in Public School Education	-	1
Electives		2	4
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-B 202	Introduction to Psychology ²	-	3
GE-C 200	Oral Interpretation of Literature ³	3	-
Electives		6	6
		<u>15</u>	<u>15</u>

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

²The following specific General Education courses are required for teacher certification (these courses may be completed during the freshman and sophomore years): GE-B 212, Introduction to American Government and Politics or GE-B 301, U.S. History; GE-B 202, Introduction to Psychology; GE-D 101, English Composition; GE-D 117, 118, or 119, Expository, Technical, or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activity; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D or departmental).

³Required for major.

In Addition

2.50 GPA required for Teacher Education Program.

The challenge put to law enforcement education is its ability to apply theoretical aspects of law, criminal behavior and policing to real life situations. The faculty of the law enforcement program meet this challenge by drawing upon their collective work experience in law enforcement to present instructional material and extra-curricular events for students that effectively bridges the gap between the classroom and the real world. Today law enforcement officers must prepare themselves through their educational experiences and training to respond to a variety of situations they may confront during the course of their duties.

Classroom experiences aimed at developing good human relations and communications skills in order to deal with people effectively and to be able to record and communicate facts accurately are important. Good decision making skills are also necessary for police to be able to think logically and quickly when called upon to do so.

The law enforcement program in conjunction with our campus student organization, Professional Law Enforcement Association, sponsors various events during the year to introduce students to a variety of policing and private security issues such as firearms, emergency driving techniques, corrections seminars and tours, crime investigation, suspect/vehicle stop and search techniques, institutional security and numerous guest speakers.

Students can readily receive their degree from this program in two years. Students who want to continue their law enforcement education at SIU may do so by working toward a bachelor of science degree with all course credits being transferred.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 108	Sociological Perspective	3	-
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
LE 103	Introduction to Criminal Justice	3	-
LE 105	Criminal Behavior	3	-
LE 108	Supervision in Criminal Justice	-	3
LE 115	Interpersonal Relations in Criminal Justice	3	-
LE 205	Criminal Investigation	-	3
LE 218	Introduction to Corrections	-	3
Elective		-	3
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	3	-
GE-B 212	American Government and Politics	3	-
GE-D 153	Public Speaking	3	-
LE 209, 210	Criminal Law I and II	3	3
LE 221	Police Administration	3	-
LE 395	Internship in Criminal Justice Practice	-	9
LE Elective	Introduction to Security	3	-
GE-A/C/D/E	Electives	-	3
		<u>15</u>	<u>18</u>

During the fourth semester of the program (or during the summer), students will serve an internship in which they work under supervision with a law enforcement agency in Illinois.

Provision is made in the program to accomodate working police officers who wish to attend part-time as well as transfer students.

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

Representative First Job Titles: Police Officer, Detective, State Police Officer, Correctional Officer, Private Security Officer, Deputy Sheriff.

The 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>
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
FL	Foreign Language ²	4	4
GE-D 101 & 117, 118, or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra ¹	-	3
GE-E	Human Health & Well Being (select) ¹	2	-
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
FL	Foreign Language Second Year ²	4	4
GE-D	Speech (select) ¹	-	2(3)
GE-E	Human Health & Well Being (select) ¹	2	-
Electives ³		3	-
MATH or CS	or Computer Science ⁴	-	3
		<u>15</u>	<u>15 (16)</u>

¹To determine what courses may be taken to satisfy the general education requirements for this program, see the section, General Education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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: Visitors' Guide, Writer, Border Patrol, Publications Staff, Archival Worker, Legislative Aide, International Trade Economist, International Banking Specialist, Market Research Analyst, Manufacturer's Representative.

MANAGEMENT

College of Business and Administration
(Bachelor of Science)

Dr. Robert Bussom, Chairperson
Telephone - 618-453-3307
Henry J. Rehn Hall, Rm 215

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

The three specialized areas in which a student can choose a course of study are entrepreneurship, management and decision sciences. All 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 management 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 management 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
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
*GE-B 202	Introduction to Psychology	-	3
GE-C	Humanities (select) ¹	-	3
GE-C-3 or GE-E-2	Humanities (select) ¹ or Human Health 'and Well Being	3 (2)	-
*GE-D 101	English Composition	3	-
MGT 202	Administrative Communications ²	-	3
*MGT 208	Interpretation of Business Data	-	4
*MATH 116-5 or 139-3	Finite Mathematics & Algebra	3 (5)	-
		<u>14-16</u>	<u>16</u>
Second Year		Fall	Spring
GE-A	Science (select) ¹	-	3
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-C-3 or GE-E-2	Humanities (select) ¹ or Human Health and Well Being (select) ¹	3 (2)	-
GE-A/B/C	General Education Electives	-	3
*ACCT 220, 230	Financial, Managerial Accounting	3	3
*CS 212 or EDP 217	Intro. to Computer Programming (Pascal) 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)	-
		<u>15-16</u>	<u>15</u>

*Required course for a major in Management.

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

²MGT 202 substitutes for GE-D 118.

³ECON 214 or 215 counts toward GE-B credit.

Management As A Major

Neither minor nor foreign language required.

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

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

The Department is 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 Management annually sponsors Career Day to acquaint students with opportunities in business and government.

Representative First Job Titles: Budget Administrator, Business Operations Analyst, Benefits Analyst, Community Relations Officer, Employee Relations Officer, Employment Interviewing Officer, Labor Relations Officer, Management Analyst, Manpower Planning Officer, Manpower Resources Education Officer, Organization Planner, Placement Assistant, Public Opinion Polls Officer, Public Relations Officer, Recruiting Officer, Wage-Salary Administrator, Workman's Compensation Officer, Budget Examiner, Claims and Benefits Examiner, Contract Negotiator, Credit Union Examiner, Management Representative, Management Supervisor.

MARKETING

College of Business and Administration
(Bachelor of Science)

Dr. R. Clifton Andersen
Telephone - 618-453-4341
Henry J. Rehn Hall, 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
*GE-B 202	Introduction to Psychology	-	3
GE-C-3 or GE-E-2	Humanities (select) ¹ or Human Health and Well Being	3 (2)	-
GE-C	Humanities (select) ¹	-	3
*GE-D 101	English Composition	3	-
MGT 202	Administrative Communications	-	3
*MGT 208	Interpretation of Business Data	-	4
*MATH 116-5 or 139-3	Finite Mathematics and Algebra	3 (5) 15 (16)	- 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-C-3 or GE-E 2	Humanities (select) ¹ or Human Health and Well Being (select) ¹	3 (2)	-
GE-A/B/C	General Education Electives	-	3
*ACCT 220, 230	Financial Managerial Accounting	3	3
*CS 212 or EDP 217	Intro. to Computer Programming (Pascal) 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 14-16	3 15

*Required course for a major in Marketing.

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

²MGT 202 substitutes for GE-D 118.

³ECON 214 or 215 counts toward GE-B credit.

Marketing As A Major

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

Neither minor nor foreign language required.

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

The Department is 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 Manager, Consumer Marketing Area or Territorial Manager, Commercial/Industrial Marketing Representative, Sales Representative Trainee, Marketing Trainee, Market Analyst, Management Trainee, Food Service Sales Representative, Bond Representative, Benefits Analyst, Budget Accountant, Budget Administrator, Business and Economics Statistician, Business Planner, Controller, Management Analyst, Manufacturer's Representative, Market Research Analyst, Sales Manager, Product Manager, Operations Research Analyst, Credit Manager, Customer Services Officer, Public Relations Officer.

A standard college algebra and trigonometry course is available as one course or as separate courses to incoming freshmen to prepare them for a three semester sequence in calculus and analytic geometry. Most mathematics students will take an introductory linear algebra course while completing the calculus. Then they will select junior level courses from those in algebraic structures, analysis, number theory, geometry, differential equations, and probability.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-B 212 or 301	Introduction to American Government or U.S. History ³	-	3
GE-C	Humanities (select) ²	3	-
GE-D 101	English Composition ³	3	-
GE-D 117 or 118 or 119	Writing (select) ^{2,3}	-	2
GE-E 201	Healthful Living ³	2	-
MATH 111	Pre-Calculus ⁴	5	-
MATH 150	Calculus I	-	4
CS 202	Introduction to Computer Programming	-	3
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	-
GE-B	Social Science (select) ²	-	3
GE-B 202	Introduction to Psychology ³	3	-
GE-C	English elective in Humanities (select) ^{2,3}	-	3
GE-C	Humanities (select) ²	3	-
GE-D 153	Public Speaking ³	-	3
GE-E	P.E. Activity ³	2	-
MATH 221	Introduction to Linear Algebra	-	3
MATH 250	Calculus II	4	-
MATH	Elective	-	3
ED 201	Teacher's Role in Public School Education	<u>1</u>	<u>-</u>
		<u>16</u>	<u>15</u>

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 Education for the Transfer Student.

³The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics OR GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118, or 119, Expository, Technical, or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; One additional English course (GE-C, GE-D, or departmental); Math 111, Pre-Calculus.

⁴Approved substitute for GE-D Math. Math 111 is not a requirement for the math major. Students may start with Math 150.

Mathematics As A Major

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

It is recommended that the following courses be completed during the first two years of the student's study: Math 111, 150, 250, 251, 221, Computer Science 202.

For specific major requirements see the Undergraduate Catalog.

Freshmen with four years of high school mathematics that includes trigonometry should start their university mathematics with the calculus sequence. Those lacking this high school mathematics background may wish to take a course in trigonometry, or in college algebra and trigonometry, before starting the calculus sequence. Mathematics majors at the junior and senior level may choose from a wide variety of mathematics courses to meet the needs of their individual occupational objectives.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-E	Human Health and Well Being (select) ¹	2	-
MATH 150 & 250	Calculus I and II ²	5 (4) 16 (15)	4 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	-	3
GE-D 152 or 153	Interpersonal Communications or Public Speaking	3	-
MATH 251	Calculus III ²	3	-
MATH 221	Introduction to Linear Algebra ²	-	3
MATH 319	Introduction to Abstract Algebra	-	3
CS 202	Introduction to Computer Programming ²	3	-
FL	Foreign Language ³	4 16	4 16

*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 Education for the Transfer Student.

²Required by major.

³Math 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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.

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.

The Department of Mathematics has graduate programs at both the Master's and Doctoral levels.

Representative First Job Titles: Junior Systems Analyst, Actuary (or Actuarial Assistant), Mathematician, Operations Research Analyst, Statistician, Biometrician, Demographer, Computing Analyst, Research Mathematician, Mathematical Programmer, Technical Sales Representative.

MATHEMATICS*

College of Science
(Bachelor of Science)

Dr. A. Baartmans - Chairperson
Telephone - 618-453-5302
Neckers Building, Room 363

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
GE-B	Social Science (select) ²	3	3
GE-C	Humanities (select) ²	-	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ²	3	2
MATH 111	Pre-Calculus	5	-
MATH 150	Calculus I	-	4
GE-E	Human Health & Well Being (select) ²	<u>1</u> 15	<u>1</u> 16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
	Physical Sciences ¹	3	3
GE-B	Social Science (select) ²	-	3
GE-C	Humanities (select) ²	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ²	-	2
FL	Foreign Language ³	4	4
MATH 250, 251	Calculus II and III	<u>4</u> 17	<u>3</u> 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 GE-A) biological sciences, and six semester hours in departmental (not GE-A) physical sciences. Choosing from the following will also meet General Education requirements: Biology 305, 306, 307, 308, 309; Botany 200; Zoology 118; Physiology 210; Chemistry 115, 140, 222, 224, 225; Geology 220; Physics 203, 205 253, 255. See list of approved substitutions for specifics.

²See section on General Education for the transfer student.

³The 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 GE-C humanities credit.

Mathematics As A Major

Students majoring in mathematics 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 mathematics courses numbered 150 or above.

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 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, 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.

See also: civil engineering, electrical engineering, engineering: engineering mechanics option, engineering: thermal and environmental option, and mining engineering.

Mechanical engineering is a broad-based engineering discipline. Mathematics, basic science, economics, and design principles are utilized to produce products and systems for the benefit of mankind.

The four year undergraduate program provides a balance of experience in thermal and mechanical systems and the opportunity for specialized design courses.

First Year		Fall	Spring
*ENGR 100	Introduction to Engineering	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	3	3
*GE-D 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GE-E	Human Health and Well Being (select) ^{1,2}	-	2
*CHEM 222a,c	Intro. to Chemical Principles and Lab ³	4	3
*MATH 150, 250	Calculus I & II ³	4	4
		17	17
Second Year		Fall	Spring
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
*GE-A	Introductory Biology or Zoology ²	3	-
GE-B	Social Studies (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	-	3
*GE-D 153	Public Speaking	3	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics and Lab ³	4	4
		17	16

*Required courses for a major in Engineering.

¹See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses.

²Major requirements due to accreditation standards must include sixteen hours of Humanities and Social Studies; six or seven hours of oral and written communications and eighteen hours of basic science.

³Substitutes for General Education requirements.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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; 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, CE, EE, EM, ME, and MNGE.

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 three hours of English Composition, two hours of Technical Writing; three hours of Speech; eight hours of University Physics; seven hours of Chemistry; 11-14 hours of Math, including Calculus; two hours of Analytical Mechanics (Statics); and three hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

Representative First Job Titles: Mechanical Engineer, Plant Engineer, Product Development and Design Engineer, Product Application and Test Engineer, Sales, Patent Engineer, Sales Engineer, Quality Assurance Specialist.

MICROBIOLOGY
College of Science
(Bachelor of Arts)

Dr. Jack Parker
Departmental Executive Officer
Telephone-618-536-2349
Life Science II, Room 131

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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
FL	Foreign Language ^{1,3}	4	4
CHEM 222a,b	Introduction to Chemical Principles ^{1,3}	4	4
MATH 110a,b			
or 111	College Algebra and Trigonometry ^{1,3}	3	3
GE-A 115	Biology	-	3
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-E	Human Health and Well Being	1	1
		15	17
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
MICR 301	Principles of Microbiology	4	-
MICR 302	Molecular Biology	-	3
BIOL 305	Genetics-Classical & Molecular	3	-
BIOL	Biology (select) ^{1,2}	-	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
GE-E	Human Health and Well Being (select)	-	1
		17	16

¹ Approved substitutes for General Education.

² Any one of Biology 306, 307, 308, 309.

³ Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

Third and Fourth Years

The student fulfills remaining General Education requirements, and chooses electives in microbiology to match his or her professional interests. The Department of Microbiology offers specialty courses in microbial genetics, microbial physiology/biochemistry, medical microbiology, immunology and bacterial diversity.

Microbiology As A Major

Opportunities for microbiologists with four years of university training are numerous and varied. Careers are available in such fields as 1) pharmaceutical industries involving the discovery and production of antibiotics and other therapeutic drugs, and the discovery, production and design of vaccines possibly effective even against cancer; 2) the food and beverage industries in areas such as research and development, microbial fermentations, and quality control; 3) clinical, veterinary and public health and university laboratories; 4) the exciting field of recombinant DNA and other areas of biotechnology based on microbiology. Biotechnology has applications in industry and pure research to make vaccines, hormones, and alter the genetic constitution of plants and animals. Teaching and research opportunities exist at the university level for the holder of the doctoral degree. A microbiologist planning a teaching career at the secondary school level should acquire a broad background in general biology. In addition to the academic career, high salaried positions are available in many local, state and federal agencies as well as in industry for the microbiologist with a good capacity for pure or applied research.

Representative First Job Titles: Biostatistician, Embryologist, Genetics Research Technician, Serologist, Histologist, Cytologist, Parasitologist, Virologist, Microbiology Researcher, Wine Chemist, Fishery Bacteriologist, Quality Control Specialist, Biological Photography Staff, Manufacturer's Representative.

See also: civil engineering, electrical engineering, engineering: engineering mechanics option, engineering: thermal and environmental option, and mechanical engineering.

Mining engineers engage in planning, design, development and management of surface and underground mining operations for exploitation of the earth's mineral deposits. The mining engineering program prepares graduates to meet the challenges of the mining industry. Coursework in the program includes such areas as surface and underground mining systems, mine ventilation, ground control and rock mechanics, mineral and coal processing, material handling systems, mineral economics, mine health and safety engineering, operations research, and computer-aided mine design. Facilities include modern, well-equipped rock mechanics, mine ventilation and mineral processing laboratories.

First Year		Fall	Spring
*ENGR 100	Introduction to Engineering	3	-
GE-B	Social Sciences (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	3	3
*GE-D 101 & 118	English Comp. & Technical Report Writing ^{1,2}	3	2
GE-E	Human Health and Well Being (select) ^{1,2}	-	2
*CHEM 222a,c	Intro. to Chemical Principles and Lab ³	4	3
*MATH 150, 250	Calculus I & II ³	4	4
		17	17
Second Year		Fall	Spring
*ENGR 222	Computational Methods for Engineers	2	-
*ENGR 260a,b	Mechanics of Rigid Bodies (Statics&Dynamics)	2	3
*GE-A	Introductory Biology, Physiology or Geology	3	-
GE-B	Social Studies (select) ^{1,2}	-	3
GE-C	Humanities (select) ^{1,2}	-	3
*GE-D 153	Public Speaking	3	-
*MATH 251, 305	Calculus III and Differential Equations I	3	3
*PHYS 205, 255	University Physics and Lab ³	4	4
		17	16

*Required courses for a major in Engineering.

¹See General Education for the Transfer Student. Transfer students without a baccalaureate-oriented associate degree will be required to take some specific general education courses.

²Major requirements due to accreditation standards must include sixteen hours of Humanities and Social Studies; six or seven hours of oral and written communications and eighteen hours of basic science.

³Substitutes for General Education requirements.

Engineering As A Major

To advance to upper division courses and be classified under a specific departmental major, an 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; 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, CE, EE, EM, ME, and MNGE.

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 three hours of English Composition, two hours of Technical Writing; three hours of Speech; eight hours of University Physics; seven hours of Chemistry; 11-14 hours of Math, including Calculus; two hours of Analytical Mechanics (Statics); and three hours of Graphics or Introduction to Engineering. Calculus is a prerequisite for most junior-level courses.

Career and Employment Opportunities

Mining engineers may work in an engineering or management position for mining and exploration and construction companies, equipment manufacturing concerns, research organizations or government agencies. The coursework also provides strong preparation for further study at the graduate level. The average starting salary offered to our graduates compares favorably with national trends.

MORTUARY SCIENCE AND FUNERAL SERVICE
School of Technical Careers
(Associate in Applied Science)

Don Hertz
Program Coordinator
Telephone - 618-536-6682
STC - Building, Room 18C

SIU 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>
GE-A 106	Chemistry for Non-Science Majors	3	-
GE-A 115	Biology	3	-
GE-B 202	Introduction to Psychology	3	-
GE-D 101	English Composition	3	-
GE-D 117,118 or 119	Expository, Technical Report, or Creative Writing		2
GE-D 153	Public Speaking	-	3
STC 120	Fiscal Aspects of Technical Careers	-	3
Scr 208	Applied Law	-	3
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

This program is designed to accommodate high school graduates as well as those who have first attended another college or university. High school graduates will complete the courses as listed above. Students transferring from other schools may receive transfer credits for general education courses. Many transfer students are able to complete the associate degree in a minimum of twelve months.

Students who desire to major in Mortuary Science and Funeral Service will be admitted as provisional majors. The student must then apply for admission to the program. This application can be obtained by writing to the program coordinator.

The program is accredited by the American Board of Funeral Service Education. Graduates are eligible to write the National Board examination as given by the Conference of Funeral Service Examining Boards.

A unique feature of the curriculum is the summer internship. This ten week course, MS 375, takes place at a funeral home where the student is assigned on a full time basis. The purpose is to provide experience in the practical aspects of the profession. Following the internship, students return to campus for a seminar, MS 380, followed by writing the National Board examination and graduation.

Students have their own professional fraternity, Sigma Phi Sigma, with programs and activities planned by the members.

Some students elect to continue their education beyond the associate degree and work toward a baccalaureate degree.

Representative First Job Titles: Funeral Director Trainee, Embalmer Trainee.

MUSIC¹
(College of Communications and Fine Arts
(Bachelor of Arts)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

Charles Fligel, Advisor
Telephone 618-453-2527
Altgeld Hall, Room 101

The Bachelor of Arts program is designed to provide a basis for various part time and musically related careers such as church music, popular music, private applied teaching, and occupations within the field of music industry and communications. Ordinarily, additional study, comparable to the Bachelor of Music curriculums offered in the College of Communications and Fine Arts, is necessary to qualify for a full time professional career in teaching, conducting, composition, or research.

The music major degree program is established in accordance with the published regulations of the National Association of Schools of Music, of which the School of Music is a member.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-B	Social Studies (select) ²	-	3
GE-C	Humanities (select) ²	-	3
GE-D 101, 117	English Composition; Expository Writing	3	2
GE-D 107	Intermediate Algebra	3	-
GE-E	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>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	-
GE-B	Social Studies (select) ²	-	3
GE-D 152	Interpersonal Communication	-	3
GE-E	Human Health and Well Being (select) ²	1	1
GE-C	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>17</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 Education for the Transfer Student. Music 102-2 and 105a-3 count toward GE-C 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 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: 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

Charles, Fligel, Advisor
Telephone 618-453-2527
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as an instrumentalist and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter 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>
GE-A	Science (select) ²	-	3
GE-C	Humanities (select) ²	-	2
GE-D 101, 117	English Composition; Expository Writing	3	2
GE-E	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>
GE-A	Science (select) ²	-	3
GE-B	Social Sciences (select) ²	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	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>14</u>	<u>15</u>

*Required courses for a major in music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of music classes and to avoid spending additional time completing the bachelor's degree.

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 Education for the Transfer Student. Music 102-2 and 105a-3 count toward GE-C 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

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: Classical Music Specialist, Symphony Orchestra Artist, Opera Artist, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Brass Instruments Specialist, Woodwinds Instruments Specialist, Church Organist.

MUSIC¹
(Keyboard Performance)
College of Communications and
Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

Charles Fligel, Advisor
Telephone 618-453-2527
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a keyboard performer and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter 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>
GE-A	Science (select) ²	3	3
GE-B	Social Studies (select) ²	-	3
GE-D 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>
GE-A	Science (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 152	Interpersonal Communication	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ²	-	2
*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 Education for the Transfer Student. Music 102-2 and 105a-3 count toward GE-C requirements.

Music As A Major

Credits in one's principal applied field are based on (1) private lessons with a member of the faculty, (2) weekly participation in Studio Hour (Mondays at 10:00 a.m.), and (3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011-Marching Salukis, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Classical Music Specialist, Symphony Orchestra Artist, Solo Performer, Opera Artist, Music Conductor, Instrumental Conductor, Instrumental Soloist, Choral Group Artist, Strings Instruments Specialist, Woodwinds Instruments Specialist, Church Organist.

MUSIC
(Music Business)
College of Communications and
Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

Charles Fligel, Advisor
Telephone 618-453-2527
Altgeld Hall, Room 101

One of the newer options in the School of Music is the Music Business specialization. This program is designed for students planning careers in business and aspects of the music profession other than performance, education, composition, or history-literature. Beginning with the second year, students take courses not only in music but also in accounting, administrative sciences, economics, finance, and marketing.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 101	Conceptual Insights into Modern Communications Systems ³	3	-
GE-D 101, 117	English Composition, Expository Writing	3	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ²	2	1
ECON 215	Introduction to Microeconomics ¹	-	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>
GE-A	Science (select) ²	3	-
GE-B	Social Science (select) ²	-	3
GE-C	Humanities (select) ²	3	3
GE-D 152 or 153	Interpersonal Communications or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ²	1	-
ACCT 220, 230	Principles of Accounting I,II ⁴	3	3
MUS 030	Piano Class ⁴	1	1
MUS 031	Voice Class	1	-
MUS 032, 033, 032, 035	String, Woodwind, Bass and Percussion Techniques	2	2
MUS 040-240	Applied Music (Principal Instrument)	1	1
MUS	Major Ensemble ⁴	1	1
		<u>18</u>	<u>17</u>

¹ Approved substitutes for General Education.

² See Section on General Education for transfer students.

³ Recommended but not required by major.

⁴ Required by Music Major, music business specialization. Students who plan to transfer from community colleges with an associate's degree should complete comparable music courses in order to avoid spending extra time pursuing the bachelor's degree.

Music As A Major

Credits in one's principal applied field are based on (1) private lessons with a member of the faculty, (2) weekly participations in Studio hour (Mondays at 10:00 a.m.), and (3) recorded attendance each term at seven campus recitals or concerts, approved for the purpose by the School of Music faculty, in which the student is not a participant.

All freshmen and sophomores pursuing a baccalaureate degree program in music must maintain satisfactory membership each term in residence, in one of the following: Music 011 Marching Salukis, 013 Symphonic Band, 014 Concert Wind Ensemble, 017 Symphony, 020 University Chorus, 021 SIU Chorale, or 022 University Choir.

Representative First Job Titles: Music Marketing Specialist, Audio-Marketing, Management Trainee for Recording Studio, Fund Raiser for Opera Company, Instrument Sales, Management Agency Specialist.

*MUSIC*¹
 (Music History-Literature)
 College of Communications and
 Fine Arts
 (Bachelor of Music)

Dr. Robert Roubos, Director
 Telephone - 618-453-2263
 Altgeld Hall, Room 105

Charles Fligel, Advisor
 Telephone 618-453-2527
 Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career in musical research and criticism and/or college teaching in these areas.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	-	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	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>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-C 152	Interpersonal Communication	-	3
GE-D 117	Expository Writing	2	-
GE-E	Human Health and Well Being (select) ²	2	-
*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>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.

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 Education for the Transfer Student. Music 102-2, 105a-3 and the second semester of foreign language count toward GE-C 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: Classical Music Specialist, Music Librarian, Music Historian, Specialist in Music Appreciation.

MUSIC¹
 (Music Theory-Composition)
 College of Communications and
 Fine Arts
 (Bachelor of Music)

Dr. Robert Roubos, Director
 Telephone - 618-453-2263
 Altgeld Hall, Room 105

Charles Fligel, Advisor
 Telephone 618-453-2527
 Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a musical composer and/or college teacher of music theory-composition.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	-	3
GE-C	Humanities (select) ²	-	3
GE-D 101, 117	English Composition; Expository Writing	3	2
GE-E	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>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-C	Humanities (select) ²	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	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>16</u>	<u>14</u>

*Required courses for a major in Music. Students who intend to transfer with an associate's degree from a community college should contact the Director of the School of Music well in advance to determine comparability of classes and to avoid spending additional time completing the bachelor's degree.

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 Education for the Transfer Student.

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, 013-Symphonic Band, 014-Concert Wind Ensemble, 017-Symphony, 020-University Chorus, 021-SIU Chorale, or 022-University Choir.

Representative First Job Titles: Classical Music Specialist, Composer, Arranger, Music Theory Specialist.

MUSIC¹
(Vocal Performance)
College of Communications and
Fine Arts
(Bachelor of Music)

Dr. Robert Roubos, Director
Telephone - 618-453-2263
Altgeld Hall, Room 105

Charles Fligel, Advisor
Telephone 618-453-2527
Altgeld Hall, Room 101

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

The following illustrates the course of study to be followed during the first two years by those intending to pursue a career as a singer and/or private applied teacher. One wishing to attempt this specialization should, before the sophomore year, secure approval by the appropriate applied jury, and thereafter 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>
GE-D 101, 117	English Composition; Expository Writing	3	2
GE-D 107	Intermediate Algebra	-	3
GE-E	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
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	-	3
GE-E	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
		<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 Education for the Transfer Student. Music 102-2, 105a-3 and the second semester of foreign language count toward GE-C 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, Television Artist, Opera Artist, Folk Music Specialist, Choral Group Artist, Assistant to Music Director, Church Choirmaster, Music Librarian.

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 135

The School of Music offers programs to prepare students for careers in musical performance, conducting, composition, teaching, research, and related areas in the music industry. It is assumed that students planning one of these careers will have had extensive pre-university experience in performing with school groups and/or as soloist, basic music reading ability, strong sensitivity to music, and a desire to communicate it to others.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-B	Social Science (select) ²	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118			
or 119	Writing (select) ²	-	2
GE-E 201	Healthful Living	2	-
*MUS 030a,b	Piano Class ³	1	1
*MUS 102	Survey of Music Literature	-	2
*MUS 104a,b	Aural Skills	1	1
*MUS 105a,b	Basic Harmony	3	3
*MUS 140	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
		<u>16</u>	<u>18</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	-
GE-B 202	Introduction to Psychology	-	3
GE-B 212 or 301	American Government or U.S. History	3	-
GE-C	Humanities (select) ²	3	-
GE-C	English elective in Humanities	-	3
GE-D 107	Intermediate Algebra	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being - Activity	2	-
*MUS 034, 035	Brass Class; WW Class (for Instrumental Music)	1	2
or MUS 030a,b	Piano Class ³ (for choral Music Education)	(1)	(1)
*MUS 204	Advanced Aural Skills	1	-
*MUS 240	Applied Music (principal instrument)	2	2
*MUS	Major Ensemble (see below)	1	1
		<u>16 (17)</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.

¹Music education curriculums are available in both the College of Communication and Fine Arts and 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 Education for the Transfer Student.

³Students 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: GE-B 202, Introduction to Psychology; GE-B 212 or GE-B 301; GE-D 101; GE-D 117 or 118 or 119; GE-D Speech; GE-E 100-114 (2 hours); GE-E 201; plus one additional English course from GE-C, GE-D 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.

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 Education
 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>
GE-A 101	Conceptual Insights into Modern Communication Systems	3	-
GE-A 106	Chemistry for Non-Science Majors	-	3
GE-B 212 or 301	Introduction to American Government and Politics or U.S. History ²	3	-
GE-B 202	Introduction to Psychology ²	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition ²	3	-
GE-D 117, 118 or 119	Writing (select) ^{1,2}	-	2
GE-E 201	Healthful Living ²	-	2
GE-E	Human Health and Well Being - Activity ²	1	-
ED 201	Teacher's Role in Public School Education	-	1
Elective		<u>2</u>	<u>2</u>
		16	16
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Education (select) ¹	3	-
GE-C	English in Humanities (select) ^{1,2}	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 153	Public Speaking ²	3	-
GE-E	Human Health and Well Being - Activity ²	-	1
VES 360A,B	Vocational, Occupational & Career Simulation Cluster Education	3	3
VES 362	Vocational, Occupational & Career Orientation & Exploration	-	3
Elective		<u>-</u>	<u>6</u>
		15	16

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

² The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics, or GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; one additional English course (GE-C, GE-D 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 assistant, whether in private practice, legal aid offices, or the law-related operations of business, industry, education, or government.

In overall philosophy, as well as in curriculum content and format, the Paralegal Studies Program follows the lead of the American Bar Association Special Committee on Legal Assistants in its "Proposed Curriculum for the Training of Law Office Personnel."

The program has two components:

1. A core of legal specialty courses and administration related courses designed to provide career specificity and professional competency.
2. A range of social science, humanities, and communication skills courses designed to provide a spirit of inquiry and a depth of vision of the various contexts within which the paralegal's professional life will take place.

In addition, the student must meet all University requirements as well as appropriate College of Liberal Arts requirements.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	3	-
GE-B 212	Intro. to American Government & Politics ^{1,2}	-	3
GE-C	Humanities (select)	2	-
GE-D 101 & 118	English Composition and Writing	3	2
GE-D 107	Intermediate Algebra ¹	-	3
Foreign Language (select) ⁴		4	4
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
EDP 107 or CS 102	Electronic Data Processing Concepts or Computers in Society	-	3
SCR 220 or SCR 223 ³	Legal Documents Production or Legal Administrative Support Procedures ³	3 (4)	-
ACCT	Accounting ³	3	-
GE-D 153	Public Speaking ^{1,2}	-	3
ENG 290	Intermediate Expository Writing ^{3,5}	-	3
GE-E		2	2
GE-C	Humanities (select) ¹	3	3
		<u>14 (15)</u>	<u>14</u>

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

²Recommended but not required for major.

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 GE-C credit and four hours may be used to complete the thirty hours which are required from GE-A, GE-B, and GE-C.

⁵Computer Science 102 and English 290 may be used toward partial fulfillment of the Liberal Arts requirements.

Representative First Job Titles: Legal Assistant, Paralegal.

The Philosophy Department offers a broad range of courses covering the areas of ethics, aesthetics, logic, metaphysics, the history of both Western and Oriental philosophy, as well as art, education, history, and religion.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	3
GE-C 102	Problems in Philosophy ²	-	3
GE-D 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being (select) ¹	2	2
MATH or CS	Mathematics or Computer Science ³	-	3
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	-
FL	Foreign Language ⁴	4	4
GE-C 208	Elementary Logic	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
PHIL 304	Ancient Philosophy ⁵	3	-
PHIL 305	Modern Philosophy ⁵	-	3
Elective ⁶		-	6
		<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 Education 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 Fall 1978 or later. However, four of these hours may be used for GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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, NY; Sam Fox, President, Ethol Chemical Company, Chicago, IL; Don Beyer, Director, Photographic Services, Standard Oil, Chicago, IL; David Goldstein, President, D.O. Industries, Rochester, NY; Jeannie Krettler, Photographic Department, Television City, Los Angeles, CA; Dale Plank, President, Plant Photographic Inc., St. Charles, MO.

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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 106	Chemistry for Non-Science Majors	3	-
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
STC 105a	Technical Mathematics	-	2
		<u>15</u>	<u>14</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 101	English Composition	3	-
GE-D 152	Interpersonal Communication	2	-
EDP 217	Computing for Business Administration	-	3
FIN 305	Personal Finance	-	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 65 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 or in combination with community college or other acceptable extra-institutional educational experience.

The concentration is intended to qualify young people for positions as teachers, coaches, or specialists in public and private elementary or secondary schools, colleges, and universities as well as other social agencies which promote physical activity programs. Courses have been designed to meet the requirements of state departments of education and other agencies which have adopted professional standards.

Complete and integrated experience in teaching physical education and assisting in coaching under qualified supervisors is provided in the cooperating schools of the area. Added experiences are gained through membership in the Club; membership in professional associations, participation on intramural teams; assisting in service class testing; professional journals; and working with recreational and school groups in teaching techniques of various activities.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology	3	-
GE-B 301 or 212	History of U.S. or Intro. to American Government & Politics ²	-	3
GE-B 202	Introduction to Psychology ²	3	-
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition ²	3	-
GE-D 117, 118			
or 119	Writing (select) ^{1,2}	-	2
GE-D 107	Intermediate Algebra	-	3
GE-E 201	Healthful Living ²	2	-
EDUC 201	Teacher's Role in Public School Education	1	-
Electives		-	3
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-C	English Elective in Humanities (required) ²	-	3
GE-D 153	Public Speaking ²	2	-
GE-E	Human Health and Well Being ²	-	2
PE	Electives	7	7
PHSL	Physiology ³	-	3
		<u>15</u>	<u>15</u>

¹ Refer to the section General Education for Transfer Students.

² The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government, or GE-B 301, U.S. History; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical Report or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours) Physical Education activity; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D or departmental).

³ A course in physiology approved by the department.

Physical Education As A Major

GPA 2.50 minimum for Teacher Education Program.

A secondary concentration (the student may select the area) is recommended.

Refer to the Undergraduate Catalog for specific major requirements.

Minors are available in Aquatics, Athletic Training, and Coaching.

PHYSICAL EDUCATION
 Athletic Training Specialization
 College of Education
 (Bachelor of Science)

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

Michael Wade, Chairperson
 Physical Education
 Telephone - 618-453-2296
 Davies Gymnasium, Room 106

The Athletic Training program is designed to train students to provide exemplary first-aid care for student-athletes, and administer rehabilitation, therapeutic treatment, and preventative conditioning programs under the supervision of a physician. This program prepares graduates for careers as Athletic Trainers in public schools, colleges and private and industrial settings.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 101	Conceptual Insights into Modern Communication Systems	3	-
GE-B 202	Introduction to Psychology	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 117, 118			
or 119	Writing (select) ¹	-	3
GE-E	Human Health and Well Being	-	2
CHEM 115	Chemistry	-	3
F&N 100	Fundamentals of Nutrition	3	-
Electives	Health	-	4
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 118	Introductory Zoology	4	-
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	3
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being	-	2
PHSL	Physiology ²	-	3
Electives	Health	3	4
		<u>16</u>	<u>15</u>

¹Refer to the section General Education for Transfer Students.

²A course in physiology approved by the department.

Physical Education Athletic Training Specialization

Refer to the Undergraduate Catalog for specific major requirements.

Major GPA required is 2.50.

Students interested in either the athletic training major or minor should apply in the Physical Education Department in Davies Gym. Enrollment is limited.

PHYSICAL EDUCATION

Dance Pedagogy Specialization
Dance Performance/Choreography Specialization
College of Education
(Bachelor of Science)

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

Michael Wade, Chairperson
Physical Education
Telephone - 618-453-2296
Davies Gymnasium, Room 106

The Dance program offers specializations in dance pedagogy and in performance/choreography. The curriculum is designed to prepare the dancer both in education and in the performing and choreographic arts. Students in dance can audition to become members of the Southern Illinois Repertory Dance Company--the resident company serving both faculty and students.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology	3	-
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	3
GE-D 117, 118			
or 119	Writing (select) ¹	-	3
GE-E	Human Health and Well Being	-	2
PE	Electives (Dance)	3	3
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being	-	2
MUS 101	Music Fundamentals	3	-
PE	Electives (Dance)	3	7
PHSL	Physiology ²	3	-
		<u>15</u>	<u>15</u>

¹ Refer to the section General Education for Transfer Students.

² A course in physiology approved by the department.

Physical Education Dance Specializations

Refer to the Undergraduate Catalog for specific requirements.

PHYSICAL EDUCATION

Exercise Science and Physical Fitness
Specialization
College of Education
(Bachelor of Science)

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

Michael Wade, Chairperson
Physical Education
Telephone - 618-453-2296
Davies Gymnasium, Room 106

This program is designed for students who wish to direct physical fitness programs in private, industrial and public settings. Preparation in this program enables the graduate to assess components of adult fitness, design individual exercise programs for the development and maintenance of physical fitness, and manage a physical fitness program. Graduates will have the foundation for continued study at the graduate level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology	3	-
GE-B 202	Introduction to Psychology	-	3
GE-B	Social Science (select) ¹	5	-
GE-C	Humanities (select) ¹	3	-
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	-	4
GE-D 118	Technical Writing	-	3
GE-E	Human Health and Well Being	2	-
PE	Electives	1	5
		<u>17</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
CHEM 140a,b	Chemistry	3	3
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 110	Basic Applications of Statistics	-	3
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being	-	2
CS 202	Introduction to Computer Programming	3	-
PE	Electives (Aerobic Dance)	3	2
ACCT 220	Accounting I	-	3
		<u>15</u>	<u>17</u>

¹ Refer to the section General Education for Transfer Students.

Physical Education - Exercise Science and Physical Fitness Specialization

Refer to the Undergraduate Catalog for specific requirements.

PHYSICAL EDUCATION

Physical and Special Education Specialization
College of Education
(Bachelor of Science)

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

Michael Wade, Chairperson
Physical Education
Telephone - 618-453-2296
Davies Gymnasium, Room 106

Many handicapped students exhibiting learning problems also exhibit motor development deficiencies. Teachers trained in Special Education are responsible for delivering motor skill instruction to their students, but often lack the theoretical knowledge necessary to educate handicapped children. The Department of Physical Education offers an interdisciplinary approach to training, to address this pre-service deficiency, by combining the majors of Special Education and Physical Education. Graduates from this program are certified to teach in both areas. This allows the student to seek employment as a Special Education classroom teacher, a regular Physical Education teacher, an adapted Physical Education teacher, or any combination thereof.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 115	Biology	3	-
GE-B 301 or 212	History of U.S. or Intro. to American Government & Politics ¹	3	-
GE-B 202	Introduction to Psychology ¹	-	3
GE-C 100	Music Understanding	-	3
GE-C 101	Introduction to Art	3	-
GE-D 101	English Composition ¹	3	-
GE-D 117 or 119	Expository or Creative Writing ¹	-	2
GE-E	Human Health and Well Being ¹	-	2
MATH 114	Algebraic & Arithmetic Systems	-	4
ED 201	Teacher's Role in Public School Education	-	1
PE	Activities (Electives)	3	-
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B 108	The Sociological Perspective	-	3
GE-C	Literature (select) ¹	3	-
GE-D 153	Public Speaking ¹	-	3
GE-E 201	Healthful Living ¹	2	-
MUS 101	Music Fundamentals	-	3
MATH 314	Topics in Mathematics for Elementary Teachers	4	-
PE	Activities (electives)	3	2
PHSL	Physiology ²	3	-
		<u>15</u>	<u>14</u>

¹The following courses are required for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government, or GE-B 301, U.S. History; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical Report or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours) Physical Education activity; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D or departmental).

²A course in physiology approved by the department.

Physical and Special Education Specialization

Refer to the Undergraduate Catalog for specific major requirements.

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 73 credit hours is required for the associate degree.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 118	Introductory Zoology	4	-
GE-B 202	Introduction to Psychology	-	3
GE-D 101	English Composition	3	-
GE-D 152	Interpersonal Communication	-	2
AHC 105	Medical Terminology	2	-
PTH 100	Physical Therapy Orientation	2	-
PTH 113	Therapeutic Modalities I (8 weeks)	1.5	-
PTH 207	Massage (8 weeks)	1.5	-
PHSL 208, 209	Physiology	-	4
PHSL 300	Human Anatomy	-	3
PTH 202	Physical Rehabilitative Techniques	-	2
PTH 204	Practicum I	-	2
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 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	2	-
PTH 205	Physical Therapy Science	-	2
PTH 208, 209	Therapeutic Exercise I & II	3	3
PTH 213	Therapeutic Modalities II	3	-
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 (3)
		<u>16</u>	<u>17</u>
		<u>Summer</u>	
PTH 321a,b	Clinical Internship	8	
PTH 322	Clinical Seminar	2	
		<u>10</u>	

Physical Therapist Assistant As A Major

The student should expect to spend approximately \$125.00 for uniforms and insurance.

The student under the supervision of the registered physical therapist will be able to utilize various physical agents such as heat, cold, light, water, electricity and sound. The student will also be able to administer massage and therapeutic exercises as well as teach gait and other activities of daily living. Other duties will include record keeping and general physical therapy housekeeping.

In addition to the physical therapy activities, the student will assist the physical therapist in more complex procedures such as administering manual muscle tests, electrical tests and other evaluative examinations. The student also observes, records and reports to the supervisor conditions, reactions, and responses related to his or her assigned duties.

Before graduation, the student will serve an internship of twelve weeks in two separate hospitals located away from the campus.

Representative First Job Titles: Physical Therapist Assistant.

A major in Physics may be pursued through either the College of Science or the College of Education. The program of study provides for a mastery of the basic principles of classical and quantum physics. It also provides a breadth of coverage in the applications of physics principles to neighboring fields. Because of the central position of physics among the physical sciences, the physics graduate with his analytical and instrumental skills can flexibly contribute to the solution of pressing national problems of energy supply, water resources, transportation, environmental healthfulness, security and other vital concerns. A basic knowledge of classical and quantum physics is essential for a successful entry into a very wide variety of interdisciplinary areas of science such as biophysics, geophysics, communications science, space science, environmental science, medical science, and engineering.

The program at SIU, 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.

First Year		Fall	Spring
GE-B 212 or 301	Intro to American Government & Politics or U.S. History	3	-
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition	3	-
GE-E 201	Healthful Living	-	2
GE-D 117, 118 or 119	Writing (select) ²	-	2
CHEM 222a,b	Intro. to Chemical Principles & Lab	4	4
MATH 111	Pre-Calculus ³	5	-
MATH 150	Calculus I	-	5
		<u>15</u>	<u>16</u>
Second Year		Fall	Spring
GE-A	Science (select) ²	3	-
GE-B 202	Introduction to Psychology	3	-
GE-B	Social Science (select) ²	-	3
GE-C	English, Elective in Humanities (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 153	Public Speaking	-	3
GE-E	P.E. Activity ²	-	2
MATH 250	Calculus II	4	-
PHYS 205a&b, 255 a&b	University Physics & Lab ⁴	4	4
EDUC 201	Teacher's Role in Public School Education	-	1
		<u>17</u>	<u>16</u>

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 Education for the Transfer Student.

³Math 111 substitutes for GE-D Mathematics.

⁴These courses count towards the GE-A 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 222.

Physics As A Major

The following specific General Education courses are required for teacher certification (these courses may be completed during the freshman and sophomore years): GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics, or GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118, or 119, Expository, Technical or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D 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 SIU, building upon a solid foundation of classical physics, provides a sound introduction to atomic molecular physics with options for specializing in solid state, nuclear, mathematical physics, biophysics and applied physics.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-D 101	English Composition	3	-
GE-E	Human Health and Well Being (select) ²	1	2
FL	Foreign Language ^{3,4}	4	4
MATH 111	Pre-calculus ⁴	5	-
*MATH 150	Calculus I ⁴	-	5
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
BIOL	Biological Sciences (not GE-A) ^{3,4}	3	3
GE-B 211	Contemporary Economics	3	-
GE-C	Humanities (select) ²	3	-
GE-E	Human Health and Well Being (select) ²	-	1
*MATH 250	Calculus II	4	-
*CHEM 222a,b	Introduction to Chemical Principles and Lab ^{3,4,5}	4	4
*PHYS 205 a & b			
and 255 a & b	University Physics and Lab ^{3,4}	4	4
*PHYS 301	Theoretical Methods in Physics	-	2
		<u>18</u>	<u>17</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 Education for the Transfer Student.

³ Approved substitutes for General Education.

⁴ Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

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 222.

Physics As A Major

At SIU 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, Biophysicist, Astronomer, Geodesist, Crystallographer, Air Pollution Analyst, Theoretical Physicist, Health Physicist.

Physiology involves studying the functioning of organisms during life and how life processes operate. Courses include 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.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
FL	Foreign Language (select) ^{2,3}	4	4
CHEM 222a,b	Introduction to Chemical Principles ^{2,3}	4	4
MATH 108,109	College Algebra and Trigonometry ^{2,3}	3	3
		<u>17</u>	<u>16</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Science (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
BIOL 305	Genetics ³	3	-
BIOL	Select from Biology 307, 308, 309 ^{2,3}	-	3
PHYS 203a,b and 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
		<u>16</u>	<u>15</u>

¹Refer to section General Education for the Transfer Student.

²Approved substitutes for General Education.

³Students in the College of Science must take one year of foreign language, one year of math, six semester hours of physical sciences, and six semester hours of biological sciences.

Third and Fourth Years

Students fulfill remaining General Education 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 scalars 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, Biological Warfare Personnel, Bioastronautician, Physiological Researcher, Genetics Researcher, Manufacturer's Representative, Pathologist, Technical Writer, Biostatistician, Researcher, Toxicologist, Pharmaceutical Sales Representative.

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 Education, and seminars. A course of study in international agriculture can be taken if the student so desires.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well Being	2	2
CHEM 140a	Chemistry ¹	-	4
BOTANY 200	General Botany and Lab ¹	4	-
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	2	-
GE-B	Social Studies (select)	3	-
GE-C	Humanities (select)	-	3
GE-D 153	Public Speaking	-	3
GE-A or B or C	Elective	-	3
ABE 204	Intro to Agricultural Economics ¹	3	-
ACCT 210	Accounting Principles and Control	-	3
CHEM 140b	Chemistry	4	-
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
		<u>15</u>	<u>16</u>

¹Substitutes for General Education requirements.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. A total of 40 hours in agriculture is required which includes 28 hours in Plant and Soil Science, and seven hours from two other departments in the School of Agriculture. Of the 28 required hours in Plant and Soil Science, at least fifteen hours must be at the 300 and 400 level with no less than nine hours at the 400 level. In addition, the student must take either Marketing 304 or ABE 360, AD SC 301, seven hours of business electives, and Botany 320. The student may select courses within the University for eight hours of outside electives.

Plant And Soil Science As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with potential employers and assists students in finding internships and permanent positions. A minor is not required and there is no foreign language requirement. An honors program and a work experience program are available.

Representative First Job Titles: Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.

The Environmental Studies option is designed to familiarize the student with environmental problems relating to plants and soils. Thorough training in the solution to these problems will prepare students for interesting careers with environmental protection agencies, pollution control boards and other agencies.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 220	Survival of Man	3	-
GE-C 221	Survival of Man	-	3
GE-C	Humanities (select)	3	-
GE-D 101	English Composition	3	-
GE-D 118	Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	2	-
BOTANY 200	General Botany and Lab ¹	-	4
CHEM 222a&b	Intro. to Chemical Principles and Lab ¹	4	4
ECON 214	Intro. to Macroeconomics ¹	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 330	Weather	-	3
GE-B 212	Intro. to American Government & Politics	3	-
GE-C	Humanities (select)	-	3
GE-D 153	Public Speaking	3	-
GE-E	Human Health and Well Being (select)	-	2
GE-A, B or C	Elective	3	-
AG 333	Agr. & Forestry Env. Problems	-	3
ECON 215	Introduction to Microeconomics	3	-
MATH 108, 109	College Algebra and Trigonometry	3	3
PLSS 220	General Horticulture	-	3
		<u>15</u>	<u>17</u>

¹Substitutes for General Education requirements.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. The student must enroll in the following courses: ANI 455-2, AGRI 401-3, and 440-3; BOT 320-4; ECON 333-3, PLSS 200-3, 240-4, 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 three hours of outside electives, and nine 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 Education, and seminars. A course of study in international agriculture can be taken if the student so desires.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select) ²	3	-
GE-C	Humanities (select) ²	-	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	2	2
ABE 204	Agricultural Economics ¹	-	3
BOTANY 200	General Botany and Lab ¹	4	-
CHEM 140a	Chemistry ¹	-	4
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	2	-
GE-B	Social Studies (select) ²	3	-
GE-C	Humanities (select) ²	3	3
GE-D 153	Public Speaking	-	3
GE-A or B or C	Elective	-	3
CHEM 140b	Chemistry	4	-
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
PLSS elective		-	3
		<u>15</u>	<u>16</u>

¹Substitutes for General Education requirements.

²Consult the section General Education for the Transfer Student.

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. A total of 45 hours in agriculture is required which includes 28 hours in Plant and Soil Science, six hours from two other departments in the School of Agriculture and Botany 320-4. Of the 28 required hours in Plant and Soil Science, at least fifteen hours must be at the 300 and 400 level with no less than nine hours at the 400 level. In addition, the student may select courses within the university for nineteen hours of outside electives.

Plant And Soil Science As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with potential employers and assists in finding internships and 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>
GE-B	Social Sciences (select) ²	3	-
GE-C	Humanities (select)	-	3
GE-D 101	English Composition	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well Being (select) ²	2	2
ABE 204	Agricultural Economics ¹	-	3
BOTANY 200	General Botany and Lab ¹	4	-
CHEM 140a	Chemistry ¹	-	4
PLSS 220	Principles of Field Crop Production	-	3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select)	-	2
GE-B	Social Sciences (select) ²	3	-
GE-C	Humanities (select) ²	3	3
GE-D 153	Public Speaking	-	3
GE-A, B, or C	Elective	3	-
AdSc 301	Management and Supervision	-	3
AGEM 376	Applied Graphics	2	-
CHEM 140b	Chemistry	4	-
PLSS 240	Soil Science	-	4
PLSS 200	Principles of Field Crop Production	-	3
		<u>15</u>	<u>18</u>

¹Substitutes for General Education requirements.

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

Third and Fourth Years

The last two years of a student's program concentrate on specific professional objectives. The student must enroll in the following courses: BIOL 307-3, BOT 320-4, 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 four to six hours of outside electives, and ten 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. James Tweedy, 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 Education, and seminars. A course of study in international agriculture can be taken if the student so desires.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 101	English Composition	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well Being (select)	2	2
ABE 204	Agricultural Economics ¹	-	3
BOTANY 200	General Botany and Lab ¹	4	-
CHEM 222a&b	Introduction to Chemical Principles ¹	4	4
MATH 108, 109	College Algebra and Trigonometry ¹	3	3
PLSS 200	Principles of Field Crop Production	-	3
		<u>16</u>	<u>17</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select)	3	3
GE-C	Humanities (select)	3	3
GE-D 153	Public Speaking	-	3
GE-A or B or C	Elective	3	-
PHYS 203a&b	College Physics	3	3
PLSS 220	General Horticulture	3	-
PLSS 240	Soil Science	-	4
AG electives		<u>2</u>	<u>-</u>
		<u>17</u>	<u>16</u>

¹Substitutes for General Education requirements.

Third and Fourth Years

The last two years of a student's program concentrates on specific professional objectives. A total of 40 hours in agriculture is required which includes 28 hours in Plant and Soil Science, and six hours from two other departments in the School of Agriculture. Of the 28 required hours in Plant and Soil Science, at least fifteen hours must be at the 300 and 400 level with no less than nine hours at the 400-level. In addition, the student must take Botany 320, Chem 340 and 341 and four hours of courses in mathematics, physical sciences, or biological sciences. The student may select courses within the University for nine hours of outside electives.

Plant And Soil Science As A Major

Numerous job opportunities are available for graduates of this option. The department maintains close contact with many universities and research laboratories and assists in placing students. A minor is not required and there is no foreign language requirement. An honors program and a work experience program are available.

Representative First Job Titles: Soil Conservationist, Water Conservationist, Soil Erosion Prevention Specialist, Geological Environment Mapping Scientist, Aquifers and Rocks Characteristics Scientist, Plant and Soil Laboratory Technologist, Production Manager, Plant Quarantine Inspector, Plant Pest Control Inspector, Farm Manager, Entomologist, Foreman-Park Maintenance, Public and Environmental Health Scientist, Plant Ecologist, Plant Breeding Expert, Plant Morphologist, Technical Service Representative, Plant Pathologist, Plant Physiologist, Plant Taxonomist, Soil Bacteriologist.

POLITICAL SCIENCE¹

(Government)
College of Education
(Bachelor of Science)

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

The Department of Political Science offers an undergraduate major in the College of Liberal Arts and the College of Education. The major requires a minimum of thirty-four hours in Political Science courses. A minimum GPA of 2.5 is required. Furthermore, at least three courses must be taken at the 400 level.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	-
GE-B 202	Introduction to Psychology	-	3
GE-B 211	Contemporary Economics ³	-	3
GE-B 212	Intro. to American Government & Politics	3	-
GE-C	Humanities (select) ²	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select) ²	-	2
GE-E	Human Health and Well Being ²	2	-
GE-D 107	Intermediate Algebra	-	3
ED 201	Teacher's Role in Public School Education	-	1
		<u>14</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ²	3	3
GE-C	English Elective in Humanities	3	-
GE-B 301 or HIST 300	Modern America from 1877 to the Present Origins of Modern America, 1492-1877	-	3
GE-B 250	Intro. Comparative Government & Politics ³	3	-
GE-E 201	Healthful Living	-	2
GE-D 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 Education 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 Education courses are required for teacher certification. (These courses may be completed during the freshman and sophomore years.): GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics, or GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D 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 33 hours in five different fields. A minimum GPA of 2.0 is required. Furthermore, at least three courses must be taken at the 400 level, and at least 15 of the required 33 hours must be earned at SIU.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	3
GE-B 212	Intro. to American Government & Politics ²	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 101 & 117			
or 118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	<u>2</u>	<u>-</u>
		14	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
FL	Foreign Language ³	4	4
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select) ¹	-	2
MATH or CS	or Computer Science ⁴	3	-
POLS 270	Intro. to International Relations ⁵	-	3
Elective ⁶		<u>3</u>	<u>3</u>
		16	15

*See also the program under the College of Education.

¹See General Education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

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 Greek word "idiot" meant one who has no interest in politics and the affairs of state. Hence, the study of political science is one of the oldest and most central of mankind's intellectual activities. Some of the major topics of political science are: What is the best form of government? How do various governments around the world actually work? What is the appropriate relationship between the individual and the state? How can conflicts between nations be resolved short of violence?

Political science majors work with questions as old and important as the above as well as with recently developed social science research techniques. Courses in political science encourage students to question, analyze and reason in addition to improving written and verbal communication skills. They also provide a great deal of expertise on the inner workings of all levels of government and the relationships between government and the private sector.

Political Science majors are encouraged to receive a broad education tailored to their particular career plans. Those interested in foreign affairs should stress a foreign language. A student interested in social science research skills can combine political science with economics, statistics and computer science. Someone interested in a legal career can join political science with English, philosophy and a range of other social sciences. The SIU Department of Political Science offers a full range of courses in the field and has developed significant visibility for its research efforts in recent years.

Career Opportunities: A major in political science provides excellent training for the public service, scientific polling and political analysis, management training programs, and teaching, particularly at the secondary level. A political science major also provides an excellent foundation for professional graduate training in law, journalism, public administration or public affairs as well as for graduate work in political science which is essential for a career in higher education. For the non-vocationally oriented student, political science is an excellent major for anyone with a keen interest in politics and public affairs.

The SIU 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>
GE-A 118	Introductory Zoology	4	-
GE-B	Social Studies (select)	3	3
GE-C	Humanities	-	3
GE-D 101	English Composition	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well Being	2	-
MATH 108, 109	College Algebra and Trigonometry	3	3
ZOOL 220b ¹	Diversity of Animal Life (Vertebrate)	-	4
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select)	3	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	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
ENG 290 ³	Intermediate Expository Writing or other	-	3
		<u>17</u>	<u>14</u>

¹Community college students may substitute one or two semesters of general biology for zoology if the biology courses are 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. Courses in which students receive intensive faculty critiques of their writing skills are highly recommended. Preparation in composition is essential and preparation in public speaking is of great value.

The fields of history (particularly English and American history), political science, psychology, economics, and sociology are important to an appreciation of human institutions and values and their relation to law.

An understanding of financial statements and of elementary accounting principles has become almost indispensable. Some familiarity with computers is also helpful.

There are opportunities in special types of practice for those who concentrate in particular fields, such as engineering, business administration, chemistry, physics, or agriculture before entering law school.

Refer to the section General Education for the Transfer Student to determine what courses may be taken to satisfy the University's general education requirements.

Pre-Law

Pre-Law is not a major in that students cannot receive a degree in Pre-Law. Since most law schools now require applicants to possess a bachelor's degree, students are advised to select a major in the academic unit where they would like to obtain a degree.

PRE-MEDICINE (INCLUDING OSTEOPATHIC MEDICINE)

Pre-professional
(Select Academic Unit)

Patricia Sims
Health Professions Information Office
Telephone - 618-536-2147
Neckers A-160

At SIU 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>
GE-A 118	Introductory Zoology	4	-
GE-B	Social Studies (select)	3	3
GE-C	Humanities (select)	-	3
GE-D 101	English Composition	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
GE-E	Human Health and Well-Being (select)	2	-
MATH 108, 109	College Algebra and Trigonometry	3	3
ZOOL 220b ¹	Diversity of Animal Life (Vertebrate)	-	4
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select)	3	-
GE-D 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
		<u>16-17</u>	<u>16</u>

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. Chemistry majors should begin chemistry in the first year.

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 SIU 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)
 Undergraduate Academic Services

Billie Jacobini
 Pre-Major Advisement Center
 Telephone - 618-453-4351
 Woody Hall, Wing C, Room 117
 or
 Mary Goss
 Pre-Major Advisement Center
 Telephone - 618-453-4351
 Woody Hall, Wing C, Room 117

The baccalaureate degree in nursing is offered at Southern Illinois University at Edwardsville. Students may complete selected General Education and nursing 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>
GE-B 104	The Human Experience - Anthropology	3	-
GE-B 108	The Sociological Perspective	-	3
GE-C 104	Moral Decision	-	3
GE-D 101	English Composition	3	-
GE-D 117	Expository Writing	-	2
GE-D 107	Intermediate Algebra	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
CHEM 140a,b	Chemistry (inorganic, organic, and biochemistry)	4	4
PHSL 208, 209	Principles of Physiology & Lab	-	4
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology	3	-
GE-B 262	Marriage & Family in Contemporary Society	3	-
GE-C	Select	3	6
GE-C 208	Elementary Logic	-	3
HED 311	Human Growth and Development	3	-
MICRO 301	Principles of Microbiology	4	-
PHSL 301	Survey of Human Anatomy	-	4
PSYC 305	Psychology of Personality	-	3
		<u>16</u>	<u>16</u>

As soon as possible after advisement for the Fall Semester, freshman year, the student should see Mrs. Goss, Nursing Advisor, to initiate application to the School of Nursing at SIUE. Deadline date is at least three quarters prior to the quarter the student is applying for. After three semesters at SIU, it takes at least eight 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 (4.0 scale) will be considered admissible up to the limit of available space.

Constitution requirement is still required at Edwardsville.

Students who take GE-B 104, GE-B 202, and GE-B 108 will be considered as having fulfilled the Social Studies requirements for the General Education 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 optometry requirements until the third and fourth years.

<u>First Year</u> ¹		<u>Fall</u>	<u>Spring</u>
GE-A 118	Introductory Zoology	4	-
GE-B 202	Psychology	-	3
GE-C	Humanities (select)	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select)	-	2
MATH 108, 109	College Algebra and Trigonometry	3	3
ZOOL 220b ²	Diversity of Animal Life (Vertebrate)	-	4
		<u>16</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-C	Humanities (select)	3	-
CHEM 222a,b ³	Introduction to Chemical Principles	4	4
MATH 282	Statistics	-	3
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
MATH 150	Calculus I (with analytic geometry)	4	-
	Elective	-	3-5
		<u>15</u>	<u>14-16</u>

¹See information above concerning course selection.

²Community college students may substitute one or two semesters of general biology if it is a course for science majors and if it includes 3-4 hours per week in laboratory.

³Chemistry majors or other students hoping to enter optometry school after three years must begin a chemistry sequence in the first year and take organic chemistry in the second in order to take the Optometry College Admissions Test one year prior to optometry school entry. Students with no high school chemistry must begin with CHEM 115.

⁴Any three-hour statistics course taught by business, mathematics, or psychology department is acceptable.

Third and Fourth Years

No degree is given in pre-optometry. Students may choose any major at SIU. Additional requirements of optometry schools include microbiology, organic chemistry, and additional psychology courses. Students interested in Indiana must have a course in either human or comparative anatomy and a year of college level foreign language or two years of high school foreign language.

Recommended courses include child (or developmental) and other psychology, introductory business, genetics, embryology, and cell biology.

Optometry As A Career

Optometry training requires four years in an accredited professional school. The candidates then take a licensing examination.

Career opportunities exist in individual or group practice, in hospitals or eye clinics, in public health agencies, in industrial health programs, and in consultant services to other professions, such as educators in remedial reading, illuminating engineers, or highway safety planners. It is estimated that 20,000 newly trained optometrists will be needed by 1990.

Current changes in pharmacy programs make it imperative that pre-pharmacy students have come particular school in mind and are aware of its requirements. The only Illinois program (University of Illinois at Chicago) now is a Doctor of Pharmacy (Pharm. D.) program requiring two years of preparatory courses such as the following:

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 118 ³	Introductory Zoology	4	-
GE-B 108 ¹	The Sociological Perspective	-	3
GE-D 101	English Composition	3	-
GE-D 117 or 118	Expository or Technical Report Writing	-	2
CHEM 222a,b	Introduction to Chemical Principles	4	4
MATH 108,109	Algebra-Trigonometry	3	3
PHSL 208 & 209	Principles of Physiology and Lab	-	4
		<u>14</u>	<u>16</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>
GE-B 202	Introduction to Psychology	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
CHEM 344, 346	Organic Chemistry	4	2
CHEM 345, 347	Laboratory Techniques	2	3
MATH 140 or 141	Short Course in Calculus	-	4
PHSL 301	Survey of Human Anatomy	-	4
MICR 301	Principles of Microbiology	4	-
Electives	See additional requirements below	-	3
		<u>16</u>	<u>16</u>

In Addition

Students must complete fourteen additional hours of general education courses consisting of fine arts (art, music, or drama), physical sciences (astronomy, geology, or physics), and humanities (history or philosophy) before entering the Pharm. D. program. These may be added to the suggested schedule above or taken during summer terms. Accepted students will then spend four years in the professional school.

The nearest B.S. in Pharmacy program is located at the St. Louis College of Pharmacy. Students may take one or, at most, two years of pre-pharmacy courses at SIU and apply to enter as second or third year students in the five-year program. A pharmacy doctorate is also available.

Applicants for the St. Louis program would add economics or government and botany to the first year courses above and delete physiology. During the second year (if taken at SIU), they must include the physiology majors course (PHSL 210), medical terminology, western cultural tradition, and statistics, but may delete calculus, microbiology and speech courses. However, it will be advantageous to the students to be on the pharmacy school campus during the second year in order to begin courses taught only by the pharmacy school.

Pharmacy As A Career

Students with an aptitude for science and interest in the pharmaceutical field will find that pharmacy offers a variety of careers. The pharmacist may practice in a retail business, in a hospital or clinic or in public health facilities. In industrial pharmacy there are opportunities in research, manufacturing, quality control, administration and sales. Graduate programs are available for pharmacists who seek advancement to careers requiring a master's or doctoral degree.

PRE-PHYSICAL THERAPY

Pre-professional
College of Science

Patricia Sims, Advisor
Health Professions Information Office
Telephone - 618-536-2147
Neckers A-160

SIU 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>
GE-A 118	Introductory Zoology	-	4
GE-B 202	Psychology	-	3
GE-C	Humanities (select)	3	-
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select)	-	2
GE-E	Human Health and Well Being	2	-
CHEM 222A,b	Introduction to Chemical Principles	4	4
MATH 108, 109	College Algebra and Trigonometry	3	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 104 or 108	Anthropology or Sociological Perspective	-	3
GE-C	Humanities (select)	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
CHEM 222a,b ³	Introduction to Chemical Principles	4	4
PHSL 210	Introductory Human Physiology or other approved Physiology course	5	-
PHYS 203a,b	College Physics	3	3
PHYS 253a,b	College Physics Laboratory	1	1
PSYCH 301	Child Psychology	3	-
PSYCH 305	Personality Psychology	3	-
PSYCH 431	Psychopathology	-	3
ZOOL 220b	Diversity of Animal Life (Vertebrate)	-	4
		<u>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, 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 SIU for a third year as admission there requires a minimum of ninety semester hours. During the third year students should work toward requirements for a degree in an SIU 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 sixteen 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 sixty semester hours plus physical education hours. A baccalaureate degree in physical therapy is awarded by the professional schools.

STUDENTS WHO DECIDE TO REMAIN AT SIU 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 SIU degree, nor does it guarantee admission into a professional school.

New requirements are expected. Entry level into the physical therapy program is expected to require a masters by 1990. Schools are now planning changes in their programs to achieve that goal.

PRE-VETERINARY MEDICINE

Pre-professional
(Select Academic Unit)

Patricia Sims, Advisor
Health Professions Information Office
Telephone - 618-536-2147
Neckers A-160

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>
GE-A 118	Introductory Zoology	4	-
GE-B	Social Studies (select)	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select)	-	2
GE-E	Human Health and Well Being (select)	-	2
BOT 200 ¹	General Botany and Laboratory	-	4
MATH 108, 109	College Algebra and Trigonometry	3	3
GE-C	Humanities (select)	-	3
ANI 121	Science of Animals	3	-
ANI 122	Production and Processing Practices	1	-
		<u>14</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-B	Social Studies (select)	3	3
GE-C	Humanities (select)	3	-
GE-E	Human Health and Well Being	-	2
PHYSs 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
		<u>17</u>	<u>16</u>

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, 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 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. With the diversity of offerings at SIU, 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 mathematics major consists of ten psychology courses including GE-B 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>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select) ¹	-	2
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being (select) ¹	2	2
MATH 139	Finite Mathematics ²	-	3
Elective ³		3	3
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B 202	Introduction to Psychology	3	-
GE-B	Social Science (select) ¹	-	3
FL	Foreign Language ⁴	4	4
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
PSYC	Psychology Elective	-	3
Elective ³		3	6
		<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 Education 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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

Psychology As A Major

The major program serves three main classes of students: 1) those who wish an interesting major but who plan no postgraduate academic work, 2) those who plan non-psychology graduate work for which an undergraduate major may be useful (e.g., medical school, social welfare, rehabilitation counseling), and 3) those preparing for graduate work in psychology. As a consequence, the program is aimed at providing broad general education rather than training in specialized psychological skills.

Representative First Job Titles: Alcoholism & Drug Addiction Researcher, Child Care Worker, Sales Agent, Senior Citizens Center (Director), Prisoner Classification Interviewer, Probation and Parole Incharge, Rehabilitation and Resettlement Personnel, Claims Authorizer, Drug Abuse Counselor, Mental Health Clinic Technician.

RADIO-TELEVISION

College of Communications and Fine Arts
(Bachelor of Arts)

Dr. Sam Swan, Chairperson
Telephone 618-536-7555
Communications Building, Rm 1056

A major in Radio-Television may be pursued through the College of Communications and Fine Arts. The program leads to the Bachelor of Arts degree. The program is designed to prepare students for leadership positions in the broadcasting industry or in related fields. As a part of the educational experience, students are encouraged to gain actual experience in any phase of broadcasting at the University-operated stations or local stations. 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>
GE-A 101	Conceptual Insights into Modern Communication Systems	3	-
GE-A	Science (select) ¹	-	3
GE-B	Social Studies (select) ¹	3	3
GE-C	Humanities (select) ¹	3	3
*GE-D 101, & 117 or 119	English Composition ² & Expository or Creative Writing ²	3	2
GE-D 152 or GE-D 153	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ¹	<u>2</u> 14	<u>1</u> 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Studies (select) ¹	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	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 GE level	-	3
	Foreign Language or Computer Science	<u>3-4</u> 14-15	<u>3-4</u> 16-17

*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 Education for the Transfer Student.

²Each student in Radio and Television must complete GE-D 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. Students must also demonstrate a typing ability of 30 words per minute.

³Radio-Television 300M and 300P are required of all majors before enrollment in other Radio-Television courses is permitted. Both RT 300M and 300P must be passed with a grade of 'C' or better.

Transfer of Broadcasting Credits

Transfer students with broadcasting credits in content covered by RT 300M and/or RT 300P may qualify for a Competency Test over that curriculum. If the 300M and/or 300P test is passed, the student need not repeat 300M and/or 300P at SIU. Other broadcasting credits from two-year institutions will apply toward the major but not as equivalencies to any specific SIU Radio-Television courses.

A minor of 15 hours is required of all students in Radio-Television. The minor should include courses in a single discipline outside the department and include courses beyond the GE level. Students should consult with their academic advisor for specific recommendations.

The major in Radio-Television consists of 35-38 hours minimum in Radio-TV coursework. Of those, 19 hours are required of all majors: RT 300M, RT 300P, RT 305, 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. Students are also required to complete an 8 semester-hour block in computer programming or foreign language.

The Department of Radio-Television, with over 600 majors, is one of the largest and most respected programs of its kind in the nation. It boasts a placement record of close to 90 percent of its graduates.

Representative First Job Titles: Producer, Director, Sales Representative, News Writer, Copywriter, News Reporter, Newscaster, Announcer, Program Director, Sales Manager, Researcher, Community Affairs Director, Disc Jockey, Station Manager, Broadcast Engineer, Radio Sales, Camera Technician, Scriptwriter, News and Film Editor, Cosmetic Specialist.

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 general education courses designated under "first year" below. The advanced radiologic technology courses combine classroom and clinical education which upon completion allows the graduate to become registry eligible to receive an associate in applied science degree in radiologic technology.

The professional courses may be completed in two calendar years. Both summer sessions and regular semester sessions will utilize classroom, laboratory, and clinical education experiences.

FIRST YEAR - "PRE-REQUISITES"

Fall		<u>Lecture</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credits</u>
GE-D 107	Intermediate Algebra	4	0	0	4
GE-D 152 or	Interpersonal Communication or	3	0	0	3
GE-D 153	Public Speaking	3	0	0	3
AHC 141	Intro to Physiology & Human Anatomy	4	0	0	4
AHC	Secondary Specialty-Allied Health	6	0	0	6
					<u>16/17</u>
Spring					
GE-A 106 or	Chemistry or	3	0	0	3
STC 107	Applied Physics	3	2	0	4
GE-B 202	Introduction to Psychology	3	0	0	3
GE-D 101	English Composition	3	0	0	3
AHC	Secondary Specialty-Allied Health	6	0	0	6
					<u>15/16</u>

Summer session may be used to accommodate non-completed courses and two to four semester hours of elective courses.

SECOND YEAR - "PROFESSIONAL COURSES"

Fall		<u>Lecture</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credits</u>
AHC 102	Introduction to Radiologic Technology & Radiographic Technique	4	0	0	4
AHC 112	Anatomy & Positioning I (8 wks.)	3	6	0	3
AHC 132	Anatomy & Positioning II (8 wks.)	3	6	0	3
AHC 202	Radiographic Physics	3	0	0	3
					<u>13</u>
Spring					
AHC 222	Clinic I (8 wks.-40 hrs.) (8 wks.-32 hrs.)	0	0	36	10
AHC 372A	Film Critique I (8 wks.)	4	0	0	2
					<u>12</u>
Summer					
AHC 212	Special Procedures	4	0	0	2
AHC 232	Selected Systems Radiography	6	4	0	4
					<u>6</u>

THIRD YEAR - "PROFESSIONAL COURSES"

Fall		<u>Lecture</u>	<u>Lab</u>	<u>Clinic</u>	<u>Credits</u>
AHC 332	Clinic II (8 wks.-40 hrs.) (8 wks.-32 hrs.)	0	0	36	10
AHC 372B	Film Critique II (8 wks.)	4	0	0	2
					<u>12</u>
Spring					
AHC 312	Radiographic Pathology	3	0	0	3
AHC 322	Cross-Sectional Anatomy & Radiographic Computerization	3	2	0	4
AHC 342	Radiation Biology, Therapy & Nuclear Medicine	2	0	0	2
AHC 352	Special Imaging Modalities	4	0	0	4
					<u>13</u>
Summer					
AHC 362	Clinic III (8 wks.)	0	0	40	4
AHC 372C	Film Critique (2 wks.)	16	0	0	2
					<u>6</u>

SEE ALLIED HEALTH CAREERS SPECIALTIES

RECREATION

(Program Services)
(Therapeutic Recreation)
College of Education
(Bachelor of Science)

Dr. John Allen, Chairperson
Telephone - 618-453-4331
Faner Hall, Room 4026

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>
*GE-A 312	Conservation of Natural Resources	-	3
GE-A	Science (select) ^{1,2}	3	-
*GE-B 108	The Sociological Perspective	3	-
**GE-B 202	Introduction to Psychology	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118, or 119	Writing (select) ¹	-	2
GE-E	Human Health and Well Being (select) ¹	-	2
**REC 300	Introduction to Leisure and Recreation	3	-
**REC 302	Recreation Program Leadership	-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
*GE-A 240	Ecology	3	-
*GE-A	Physiology	-	3
*GE-B	Social Science (select) ¹	3	-
GE-C	Humanities (select) ¹	3	-
GE-D 107	Intermediate Algebra	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	-	3
GE-E	P.E. Activity ¹	-	2
**REC 305	Recreation Programming and Leadership	-	3
**HED 334	Standard First Aid	-	2
ACCT or PSYCHOLOGY	Electives	3	3
		<u>15</u>	<u>16</u>

¹Refer to section General Education for the Transfer Student. See also the Undergraduate Catalog for specific departmental requirements.

²Therapeutic Recreation specialization requires a course in physiology approved by the department.

*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.

If you are interested in any one or more of the following questions, think seriously about doing some work in Religious Studies: 1) Does my religious faith need to be examined and refined? 2) Am I suspicious that religion may be doing more harm than good? 3) Do I get involved in arguments about religion with other students? 4) Is modern society doomed because people are losing religious faith? Or because the churches are not doing the right things? 5) Is religion outdated in the modern world? 6) Are all religions basically alike? Or do they have serious differences and conflicts? 7) What do non-Christians believe?

Any one question or combination of these questions makes Religious Studies a fruitful and exciting academic program.

The study of religion, like politics, economics, the arts and technology, is one of the major ways of understanding what makes people behave as they do. Religion is one of the world's oldest modes of behavior, both social and individual. The Religious Studies Department does not promote any one religion; rather it provides a neutral territory for comparing religious options, both old and new. Such a study is particularly useful for anyone who wants to work with people.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	3
FL	Foreign Language ²	4	4
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	<u>2</u>	<u>2</u>
		15	14
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-C 215	Types of Religion ³	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
MATH or CS	or Computer Science ⁴	-	3
RELS 201	Issues in Religion	-	3
Elective ⁵		<u>4</u>	<u>3</u>
		16	15

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

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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C. Greek or Hebrew is recommended.

³Either or both of 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 GE-C 215 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.

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 Care (NBRC) and the Pulmonary Specialty Exam (CPFT).

To be accepted into the respiratory therapy degree program, the student must be admitted to both the University and the Allied Health Careers Specialties program. The advanced respiratory therapy courses consist of both formal classroom and clinical experiences. The clinical experience will be in a variety of locations to provide maximum opportunity for procedures. Upon satisfactory completion of the curriculum, the student is awarded an associate degree.

It is highly recommended the student complete all pre-requisites before starting the professional sequence. The student should have all program application materials completed before March 1 for fall entry.

These professional courses can be completed in one and one-half calendar years (three semesters and one summer session). While the regular semesters will utilize both classroom and clinical education experiences, the final fall semester is a full-time clinical internship at a designated full-service hospital.

Requirements for Major in Respiratory Therapy

Completion of Allied Health Careers Specialties degree program	65
Respiratory Therapy Advanced Courses (AHC designated)	23
	<u>88</u>

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 106	Chemistry	3	-
GE-A 115	Biology	3	-
GE-B 202	Psychology	-	3
GE-D 101	English Composition	3	-
GE-D 107	Algebra	4	-
GE-D 152	Interpersonal Communication	-	3
STC 107a	Physics	-	2
AHC 141	Intro to Physiology & Human Anatomy	-	4
MS 256	Microbiology	-	4
***AHC	Elective	6	3
		<u>19</u>	<u>19</u>

<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
AHC 203	Principles of Respiratory Therapy	5	-
AHC 213	Respiratory Therapy Exercises	1	-
AHC 223	Patient Care Techniques	2	-
AHC 243	Cardiopulmonary Physiology	3	-
AHC 253	Clinical Practice I	1	-
AHC 263	Principles of Mechanical Ventilation	-	2
AHC 273	Mechanical Ventilation Laboratory	-	1
AHC 283	Survey of Pulmonary Diseases	2	-
AHC 293	Clinical Practice II	-	2
AHC 323	Respiratory Pathophysiology	-	3
AHC 343	Neonatal/Pediatric Respiratory Care	-	2
AHC 363	Pulmonary Evaluation and Monitoring	-	3
***AHC	Elective	-	3
		<u>14</u>	<u>16</u>

		<u>Summer</u>
AHC 310	Trends and Issues in Allied Health	3
AHC 313	Pharmacology	3
		<u>6</u>

<u>Third Year</u>		<u>Fall</u>
AHC 353	Clinical Internship	8
AHC 373a	Clinical Practice III - Special Procedures	2
AHC 353b	Clinical Practice III - Research Project	2
		<u>12</u>

***AHC electives (twelve credit hours) must be approved by the respiratory therapy advisor.

SEE ALLIED HEALTH CAREER SPECIALTIES

Programs of study in foreign languages leading to the Bachelor of Arts degree (with or without teacher certification) are offered in Classics, 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) has the option to 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>
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
RUSS 136a,b	Elementary Russian ²	4	4
GE-E	Human Health and Well Being (select) ¹	2	-
GE-D 107	Intermediate Algebra	-	3
		<u>15</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
RUSS 201a,b	Intermediate Russian ³	4	4
GE-E	Human Health and Well Being (select) ²	2	-
MATH or CS Elective	or Computer Science ⁴	-	3
		<u>15</u>	<u>16</u>

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

¹See General Education 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 SIU.

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
Program Coordinator
Telephone - 618-536-6682
STC Building, Room 107

The business world offers many opportunities for secretarial and office personnel with special interest and intense training in specific areas such as legal, medical, administrative, word processing and court reporting. Both men and women find these rewarding career choices.

Students in this program are not forced into a mold. They may prepare for the career they want in the field of their choice by selecting their program of study. Students complete the same core of basic courses during their first year. They then move into their special program area for the second year.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-D 101 & 118	English Composition & Technical Report Writing	3	2
GE-D 152	Interpersonal Communication	-	3
VES 302	Communication in Business	-	3
SCR 101a,b,c,d	Typewriting	5	5
SCR 102a,b,c,d or	Gregg Shorthand ¹		
SCR 103a,b,c,d	Machine Shorthand ¹	(5)	(5)
SCR 104	Machine Transcription	-	3.5
STC 120	Fiscal Aspects of Technical Careers I	-	3
SCR 107	Filing & Records Management	2	-
SCR 109	Calculating Numerical Information	3	-
SCR 208	Applied Law for Technical Careers	3	-
		<u>16</u>	<u>19.5</u>

¹The word processing and medical specialties within the program do not require shorthand. Electives will be taken. Shorthand may be taken as an elective in these specialties. Court reporting requires the machine shorthand while legal and administrative usually use Gregg.

Secretarial And Office Specialties As A Major

When students enter this program, they are given the opportunity to take placements tests in skill courses such as typing and shorthand. Success on any level will result in credit awarded to the student. Through this credit, the student is placed at the correct level or coursework and is granted credit for past experience.

Individuals entering the program with a strong secretarial background may qualify for PACE (Program for Advanced Curriculum Entry) which will allow the student to advance place and thus receive the two year associate degree in one year and a summer. This is a traditional associate degree, not a certificate.

All graduates of this program are trained on microcomputers with word processing software.

Second Year

Individual programs are developed for students in each specialty area during the second year of training. Co-op work experience is required during the second year of the program. Work is in a related type office.

The court and conference reporting option combines classroom instruction with actual courtroom experience in the company of a certified reporter. These students are prepared to pass the National Shorthand Reporters Association test.

There is a very active chapter of ALS (Association of Legal Students) in the program. All students are encouraged to join and take part in the activities.

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 and/or discs. Students in court reporting are required to purchase a shorthand machine at the end of their first year. They may rent their machine from the Student Center Bookstore for their first year. Cost of the machine is dependent upon the selection of the machine (electric or manual).

A minimum of 64 credit hours is required for the associate degree.

Representative First Job Titles: Legal Secretary, Medical Secretary, Administrative Secretary, Court Reporter, Word Processor.

SOCIAL STUDIES
College of Education
(Bachelor of Science)

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

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

A major in Social Studies may be pursued through the Department of Curriculum, Instruction and Media in the College of Education. Course work includes the areas of history, political science, economics, geography, and anthropology - psychology - sociology. Such a major is designed to prepare individuals for teaching in junior and senior high schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
*GE-A 330	Weather	-	3
*GE-B 104	The Human Experience: Anthropology	3	-
*GE-B 202	Introduction to Psychology ²	3	-
*GE-B 212	Intro. to American Government & Politics ²	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 101	English Composition ²	3	-
GE-D 117, 118, or 119	Writing (select) ^{1,2}	-	2
GE-D 153	Public Speaking ²	-	3
GE-E 201	Healthful Living ²	-	2
EDUC 201	Teacher's Role in Public School Education	-	1
*POL SCI 213 or HIST 205A	State and Local Government History of Western Civilization	- -	3 3
		<u>15</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
*GE-B 301	Modern America from 1877 to Present ²	-	3
GE-C	Humanities (select) ¹	3	-
GE-C	English Humanities Elective (required) ²	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being--activity ²	-	2
*ECON 214	Introduction to Macroeconomics	-	3
*SOC 301	Principles of Sociology	-	4
HIST 205B	History of Western Civilization	3	-
*HIST 300	Orgins of Modern America, 1492 to 1877 ²	3	-
		<u>15</u>	<u>15</u>

*Required courses in Social Studies.

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

² Required courses for teacher certification include: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics, or GE-B 301 U.S. History; GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical Report or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education activity; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D or departmental).

Social Studies As A Major

Students should be aware of requirements for entrance into the Teacher Education Program, which are described in another section of this book.

SOCIAL WORK

Division of Social and Community Services
College of Human Resources
(Bachelor of Science)

Divisional Executive Officer
Telephone - 618-453-2243
Quigley Hall, Room 4

The Social Work program at SIU offers a professional accredited curriculum which is designed to meet the educational needs of students with career interests in the human services field. It leads to a Bachelor of Science degree in Social Work. The curriculum provides an interdisciplinary approach to understanding man in contemporary society, basic social problems, and some of the issues associated with the prevention and treatment of these problems. Students are helped to understand the principles and basic skills employed in developing and delivering services to individuals, families, groups, and communities. Students are prepared for direct service practice in both rural and urban settings. Positions in child welfare, gerontology, mental health, health services, women's programs, public and private social service agencies are typically available to graduates.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-B 108	Sociological Perspective ²	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 107	Intermediate Algebra	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-E	Human Health and Well Being (select) ¹	<u>1</u>	<u>2</u>
		15	13
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-A/B/C	(select) ¹	-	3
GE-B 202	Introduction to Psychology ²	3	-
GE-C	Humanities (select) ¹	3	-
GE-D 152	Interpersonal Communication or Public Speaking	-	3
GE-E	Human Health and Well Being (select) ¹	1	-
SW 375	Social Welfare as a Social Institution ³	-	3
Electives		<u>5</u>	<u>6</u>
		15	15

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

²Students are required to take these Area B courses.

³This course is required for a Social Work major. For specific information regarding the acceptability of a major requirements from a junior college, the Director of the division may be contacted.

Third and Fourth Years

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

A unique aspect of the Social Work program is an intensive field practicum. The practicum provides an opportunity to integrate theoretical knowledge and helping skills learned in the classroom with the "real world" settings of southern Illinois social services agencies. A concurrent weekly seminar supports this integration of theory and practice.

Representative First Job Titles: Social Worker, Social Welfare Aide, Rehabilitation Counselor, Casework Assistant, Neighborhood Worker, Residential Welfare Facilitator, School Counselor, Employment Aide, Cooperative Extension Service Worker, Recreation Worker, Alcoholism & Drug Addiction Counselor, Child Placement Agent, Community Planning & Redevelopment Expert, Probation and Parole, Case Aide, Medical Social Worker, Outreach Worker, Residential Care Worker, Mental Health Worker, Activities Director.

Sociology is the science of society. It explains how human groups, institutions and social movements shape our lives. Sociology has always been a discipline which prepares students to think and act critically in the practical details of life. Sociology students, therefore, study such topics as sex roles, the city, juvenile delinquency, marriage and the family, criminology, social change, complex organizations, power and social inequality.

Training in Sociology is basic both to creative living and to such practical tasks as the development and effective working of businesses, families, community service agencies, political movements and parties, churches, social clubs, government, industry and schools.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117,			
118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being (select) ¹	2	2
MATH or CS	or Computer Science ²	-	3
Elective ³		3	-
		<u>14</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	3
FL	Foreign Language ⁴	4	4
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
SOC 301	Principles of Sociology ⁵	-	4
Elective ³		3	3
		<u>16</u>	<u>14</u>

¹See General Education for the Transfer Student.

²One of these courses may be used to partially fulfill the Liberal Arts requirement for students beginning college anywhere Fall 1978 or later.

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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

⁵Required for the sociology major.

Sociology As A Major

The Department of Sociology offers two alternative plans of study for completion of its major.

General Sociology is for those seeking a broad academic background in sociology and is usually chosen either by those who want a general liberal arts education in the social sciences or those anticipating graduate study in one of the social sciences. Applied Sociology combines the general program in sociology with individually planned programs built around applied courses and field work experience. This program is designed to give people actual experience in a variety of applied settings and to enhance mastery of specific skills sought by employers. Such employers might include research institutes, women's centers, senior citizen centers and community planning agencies.

Representative First Job Titles: Administrative Aide (Gov't.), Business Management Officer, Child Care Worker, Corrections/Parole Officer, Community Relations Personnel, Gerontologist, Labor Relations Specialist, Public Survey Analyst, Social Analyst, Social Stratification Analyst, Teacher, Urban Planner, Administrative Aide.

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) has the option to 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>
GE-A	Science (select) ¹	-	3
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
SPAN 140a,b	First-year Spanish ²	4	4
GE-E	Human Health and Well Being (select) ¹	2	-
GE-D 107	Intermediate Algebra	-	3
		<hr/> 15	<hr/> 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	-	3
GE-C	Humanities (select) ¹	3	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	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
GE-E	Human Health and Well Being (select) ¹	-	1
		<hr/> 16	<hr/> 15

*See also the program under the College of Education.

¹See General Education 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 SIU.

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. Norma Ewing, 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>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	3	-
GE-C 100	Music Understanding	-	2
GE-C 101	Introduction to Art	-	3
GE-D 101	English Composition ²	3	-
GE-D 117 or 119	Expository or Creative Writing ²	-	2
MATH 114	Algebraic & Arithmetic Systems	4	-
GE-E 201	Healthful Living ²	-	2
GE-E	P.E. Activity ^{1,2}	2	-
ED 201	Teacher's Role in Public School Education	-	1
Electives		-	3
		<u>15</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B 202	Introduction to Psychology ²	3	-
GE-B 212 or 301	Introduction to American Government or U. S. History ²	-	3
GE-C	Humanities (select) ¹	3	-
GE-C	Literature (select) ^{1,2}	-	3
GE-D 152 or 153	Public Speaking or Interpersonal Communication ²	3	-
MUS 101	Music Fundamentals	2	-
MUS 302	Music in Special Education	-	3
MATH 314	Topics in Mathematics for Elementary Teachers	4	-
SPED 400	Introduction to Special Education	-	3
		<u>15</u>	<u>16 (15)</u>

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

² The following are required courses for teacher certification: GE-B 202, Introduction to Psychology; GE-B 212, American Government OR GE-B 301, History of the United States; GE-C 100, Music Understanding; GE-C 101, Introduction to Art, or GE-C 205, Innovation for the Contemporary Environment; Music 101, Fundamentals of Music for GE-C (substitution); GE-D 101, English Composition; GE-D 117, 118 or 119, Expository, Technical or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours) Physical Education activity; GE-E 201, Healthful Living; and one additional English course (GE-C, GE-D or departmental).

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

The Communication Arts and Studies specialization provides students with strong basic communication skills, and the opportunity to structure much of their majors to their own tastes. Enough open electives remain for students who wish a second major.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	3	3
GE-C	Humanities (select) ¹	3	-
*GE-C 200	Oral Interpretation of Literature	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118			
or 119	Writing (select) ¹	-	2
GE-D 152 or 153	Interpersonal Communication	-	3
	or Public Speaking	-	-
GE-E	Human Health and Well Being - Activity	1	-
Electives		3	3
		<u>16</u>	<u>17</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Studies (select) ¹	3	-
GE-C	Humanities (select) ¹	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being(select) ¹	1	2
*SPCH 221	Advanced Public Speaking	3	-
*SPCH 230	Introduction to Communication Theory	3	-
*SPCH 262	Interpersonal Communication II	-	3
Electives		2	4
		<u>15</u>	<u>15</u>

*Departmental requirements.

¹Refer to section General Education for the Transfer Student.

Secondary students and community college students are encouraged to take part in as much speech activity work as possible prior to entering SIU. Those who are interested in specializing in oral interpretation should also take as many literature courses as possible. Those students interested in other aspects of oral communication should take elective work in high school or at the community college in the social science areas.

Speech Communication As A Major

No minor required; no foreign language required.

The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

Graduate degrees (M.A., M.S., and Ph.D.) are available in Speech Communication. Students choose electives to build desired specialization.

Representative First Job Titles: Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer.

SPEECH COMMUNICATION
(Communication Education)
College of Communications and Fine Arts
College of Education
(Bachelor of Science)

Ken Hawkinson, Advisement
Telephone - 618-453-2291
Communications Building, Room 2002

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

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

The Communication Education specialization meets the Illinois requirements for teaching certification in speech at the secondary level. Students have the opportunity to take a minor, thus gaining a second teaching area.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B 202	Introduction to Psychology	3	-
GE-B 212 or 301	Introduction to American Government and Politics or U.S. History	-	3
*GE-C 203	Introduction to Theater	3	-
*GE-C 200	Oral Interpretation of Literature	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118 or 119	Writing (select) ¹	-	2
*GE-D 153	Public Speaking	-	3
GE-E	Human Health and Well Being--Activity	1	1
GE-E 201	Healthful Living	2	-
ED 201	Teacher's Role in Public School Education	1	-
		16	15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Studies (select) ¹	-	3
GE-C	English in Humanities (select) ¹	-	3
GE-D 107	Intermediate Algebra	3	-
*SPCH 221	Advanced Public Speaking	3	-
*SPCH 230	Introduction to Communication	3	-
*SPCH 261	Small Group Communication	-	3
*SPCH 262	Interpersonal Communication II	-	3
Electives		3	3
		15	15

*Departmental requirements.

¹ Refer to section General Education for the Transfer Student.

College of Education requires for certification: GE-B 202; GE-B 212 or 301; GE-D 101; GE-D 117, 118 or 119; GE-D 153; GE-E 100-114 (2 hours), GE-E 201; and one additional English course from GE-C, GE-D 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)

Ken Hawkinson, Advisement

Telephone - 618-453-2291

Communications Bldg, Rm 2002

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Oral Interpretation majors often pursue careers in theater, radio and television, and publishing. The Calipre Stage, which has regular productions and reading hours, provides a place for students and faculty to perform.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Studies (select) ¹	-	3
*GE-B 202	Introduction to Psychology	3	-
GE-C	Humanities (select) ¹	3	-
*GE-C 200	Oral Interpretation of Literature	-	3
GE-D 101	English Composition	3	-
GE-D 117, 118			
or 119	Writing (select) ¹	-	2
GE-D 152 or 153	Interpersonal Communication		
	or Public Speaking	-	3
*GE-E 103d	Dance (Beginning Contemporary)	2	-
Electives		3	3
		<u>17</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Studies (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 107	Intermediate Algebra	-	3
GE-E	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>16</u>

*Departmental requirements.

¹Refer to section General Education for the Transfer Student.

Secondary students and community college students are encouraged to take part in as much activity work as possible prior to entering SIU. 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: 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)

Ken Hawkinson, Advisement
Telephone - 618-453-2291
Communications Bldg., Room 2002

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Public Relations students are fully prepared to accept positions in such areas as public relations, advertising, marketing, government relations and sales. The Pyramid Public Relations Agency, run by students in the program under faculty supervision, gives students practical experience in applying what they have learned. The Department also encourages internships and practicums.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
*GE-B 202	Introduction to Psychology	3	-
GE-B 212	Intro. to American Gov't & Politics	-	3
GE-C	Humanities (select) ¹	3	3
GE-D 101	English Composition	3	-
GE-D 117, 118			
or 119	Writing (select) ¹	-	2
*GE-D 153 or 152	Public Speaking or Interpersonal Communication	2 (3)	-
GE-E	Human Health and Well Being - Activity	1	1
ECON 214	Macroeconomics	-	3
		<u>15 (16)</u>	<u>15</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
GE-D 107	Intermediate Algebra	3	-
GE-E	Human Health and Well Being - Activity	2	-
*JRNL 300	Mass Media in Modern Society	-	3
*JRNL 310	Writing for the Mass Media	-	3
*R&T 200	Understanding Radio and Television	-	3
SPCH 261	Small Group Communication	-	-
SPCH 280	Business & Professional Communication	3	-
*SPCH 326	Persuasion	-	3
		<u>14</u>	<u>15</u>

*Departmental requirements.

¹ Refer to section General Education for the Transfer Student.

NOTE: Students must demonstrate proficiency in typing at least 30 words per minute.

Public Relations (Speech Communication) As A Major

The public relations specialization is an interdisciplinary program with a focus on communication studies designed with the assistance of and approved by the Public Relations Society of America. The Speech Communication Department uses direct advisement of all new, transfer, and continuing students.

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.

Many careers demand the ability to communicate well. The Department of Speech Communication, with 16 professors, many having national and international scholarly reputations, teaches a wide range of courses in the history, theory and successful use of communication. The Department also sponsors co-curricular activities in debate, forensics, oral interpretation, creative drama and public relations. Students on the debate and forensics teams travel regularly, and are ranked among the best in national competition. The creative drama students bring their talents to schools throughout Southern Illinois.

Students who desire a B.A. instead of a B.S. degree take the same speech communication courses as students in the Communication Arts and Studies specialization, as well as the supplemental requirements of the College of Liberal Arts.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	-
GE-B	Social Science (select) ¹	3	3
GE-C	Humanities (select) ¹	-	3
GE-D 101 & 117, 118 or 119	English Composition and Writing (select) ¹	3	2
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-D	Math (select) ¹	-	4
GE-E	Human Health and Well Being (select) ¹	2	2
Elective ²		2	-
		<u>16</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	3	3
GE-B	Social Science (select) ¹	-	3
GE-C 200	Oral Interpretation of Literature	3	-
FL	Foreign Language ⁴	4	4
SP 22I	Advanced Public Speaking ³	3	-
SP 26I	Small Group Communication	-	3
MATH or CS	or Computer Science ⁵	3	-
Elective ²		-	3
		<u>16</u>	<u>16</u>

*This is not a professional concentration, but a liberal arts concentration. See also the programs under the College of Communications and Fine Arts and the College of Education.

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

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 GE-C credit and three hours may be used to complete the thirty hours which are required from GE-A, GE-B, or GE-C.

Representative First Job Titles: Technical Writer, Visitors' Guide, Communications Specialist, Advertising Agent, Editor, Public Information Officer, Public Relations Officer, Publications Staff, Personnel Interviewer, Publicity Staff, Newspaper Reporter, Radio Announcer, Speech Writer, Manufacturer's Representative, Salesperson, Newscaster, Television Announcer.

THEATER

(Acting-Directing)
(Design-Technical)
(Playwriting-Dramatic Literature)
College of Communications and Fine Arts
(Bachelor of Arts)

David Stevens, Chairperson
Telephone - 618-453-5741
Communications Bldg, Room 1033

The Department of Theater blends scholarship and practice into an academically based theater experience preparing the student for a career in professional, educational or community theater, as well as establishing a solid academic foundation for many complementary fields. The extensive production schedule in two theaters--a proscenium house, the McLeod Theater, seating 580 and a flexible Laboratory Theater seating about 100--provides training in all aspects of theater, augmented by courses in acting, voice, movement, directing, playwriting, design and technical theater. Courses in theater history, dramatic theory and criticism and specialized courses, e.g., children's theater and theater management, complement the program. The production schedule is extensive enough to allow students the opportunity to design sets, lights, costumes, and to write, act and direct for these productions. Seminars in international and ethnic theater and drama coordinated with ongoing research projects and visits of artists-in-residence enhance the total experience.

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Studies (select) ¹	3	-
GE-C	Humanities (select) ¹	-	3
GE-C 103	Introduction to Theater	3	-
GE-D 101	English Composition	3	-
GE-D 153 or 152	Public Speaking or Interpersonal Communication	3	-
GE-D 107	Intermediate Algebra	-	3
GE-E	Human Health and Well Being (select) ¹	-	2
*THEA 217 or 218 Acting ³ or Beginning Stagecraft ⁴		3	3
		<u>15</u>	<u>14</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A	Science (select) ¹	-	3
GE-B	Social Studies (select) ¹	3	3
GE-C 365	Shakespeare	-	3
GE-E	Human Health and Well Being	2	-
*THEA 218b,c	Beginning Stagecraft ⁴	3	3
*THEA 203	Voice and Diction or		
or 213	Stage Movement ³	3	3
*THEA 300	Production	3	-
Electives ²		3	5
		<u>17</u>	<u>17</u>

*Theater core requirement.

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

²Students should consult with the department regarding the selection of courses to fulfill this requirement.

³For students who plan to fulfill the Acting-Directing specialization.

⁴For students who plan to fulfill the Design-Technical specialization.

Theater As A Major

No minor is required. The Department of Theater offers the M.F.A. degree with specializations in acting, acting-directing, design, and playwriting. Doctoral studies in theater are sponsored by the Department of Speech Communication.

During the academic year, six productions (four plays, one opera, and one musical) are performed in the McLeod Theater and numerous original one-act plays and other shows are produced in the Laboratory Theater.

Each summer, a resident stock company produces two plays and two musicals in the McLeod Theater and members of the Playwrights' Workshop produces three original plays in the Laboratory Theater.

The heavy production schedule provides many opportunities for practical experience in all aspects of theater.

Scholarships are available.

Representative First Job Titles: Costume Designer, Sound Effect Technician, Theater Drafting Technician, Sales (Magazine), Lighting Effect Technician, Scenery Specialist, Costume Specialist, Performing Artist, Choreographer (Dance Composer), Understudies Artist, Cosmetic Specialist, Actor/Actress, Publicist, Theater Instructor, Travel Coordinator, Costume Designer, Playwright, Music Score Specialist.

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.

First Year

		<u>Fall</u>	<u>Spring</u>
GE-D 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>

Second Year

GE-B	Social Science elective	-	3
GE-D or STC	Speech or Technical Writing	-	3 (2)
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>16 (15)</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>
GE-B 202 or 212	Introduction to Psychology or Introduction to American Govt. & Politics	-	3
GE-D 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 Control	2	-
TT 185, 186	Technical Drawing I & II	4	4
		<u>20</u>	<u>20</u>
<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 Practices, 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
		<u>20</u>	<u>16</u>

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 SIU, if the student is a continuing or re-entry SIU student.
 - b. The 2.25 must be the overall GPA on all previous college work for a transfer student entering SIU 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 Education requirements.
2. No more than 40 semester hours, in addition to General Education requirements, may be taken or passed in any SIU 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 Education	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>
GE-B 212 or 301	Introduction to American Government or U.S. History ³	-	3
GE-D 101	English Composition ³	3	-
GE-D 117, 118, or 119	Writing ³	-	2
GE-E 201	Healthful Living ³	-	2
GE-E	P.E. Activity ^{2,3}	-	-
**CHEM 222a,b	Introduction to Chemical Principles & Lab ¹	4	4
*MATH 111	Pre-Calculus	5	-
ZOOL 220a,b	Diversity of Animal Life	4	4
		<hr/> 17	<hr/> 15
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B 202	Introduction to Psychology ³	3	-
GE-B	Social Studies (select) ²	-	3
GE-C	English Elective in Humanities (select) ^{2,3}	3	-
GE-C	Humanities (select) ²	3	3
GE-D 153	Public Speaking ³	-	2
GE-E	P.E. Activity ³	-	1
**BOT 200	General Botany	-	4
**BIOL 307	Environmental Biology	3	-
ED 201	Teacher's Role in Public School Education	1	-
ZOOL 300	Vertebrate Embryology	4	-
ZOOL or	Botany Electives	-	4
		<hr/> 17	<hr/> 17

*Approved substitute for GE-D Math.

**Approved substitutes for GE-A.

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

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

³The following are required courses for certification: GE-B 202, Introduction to Psychology; GE-B 212, Introduction to American Government and Politics OR GE-B 301, History of the United States; GE-D 101, English Composition; GE-D 117, 118, 119, Expository, Technical, or Creative Writing; GE-D 153, Public Speaking; GE-E 100-114 (2 hours), Physical Education Activities; GE-E 201, Healthful Living; One additional English course (GE-C, GE-D, or departmental); Math 111 or Pre-Calculus or 108, 109 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. DuWayne C. Englert
Dir. of Undergraduate Studies
Telephone - 618-536-2314
Life Science 11, 351 or 355F

The zoology curriculum provides the student with a knowledge of animals, their biology and their conservation. The 25 faculty members of the Department of Zoology represent a wide range of professional zoological disciplines. A wide variety of courses is offered in the biologically rich and diverse environment of Southern Illinois. Our excellent study facilities in the life science building are equipped with specialized laboratories, computer facilities, research museum, and animal quarters. Associated with the department are the Cooperative Fisheries and Wildlife Research Laboratories which make important contributions to the education of many undergraduates.

The department's faculty and graduate students provide personal opportunities for student introduction to interesting specialties. This is augmented by the unique INDIVIDUALIZED CURRICULUM prepared for each student majoring in zoology. Arrangements are made through the Director of Undergraduate Studies for each student to select a faculty advisor to plan with him or her the specific program of courses in zoology and supporting areas (usually other biological sciences, math and chemistry).

<u>First Year</u>		<u>Fall</u>	<u>Spring</u>
GE-A 118	Introductory Zoology ²	4	-
GE-B	Social Studies (select)	3	-
GE-C	Humanities (select)	-	3
GE-D 101	English Composition	3	-
GE-D 117,118 or 119	Writing (select)	-	2
Elective or			
CHEM 115	Introductory General Chemistry ^{1,2,4}	3	-
CHEM 222a	Introduction to Chemical Principles ^{1,2,4}	-	4
MATH 108,109	College Algebra and Trigonometry ^{1,2,3}	3	3
ZOOL 220a	Diversity of Animal Life (invertebrate) ²	-	4
		<u>16</u>	<u>16</u>
<u>Second Year</u>		<u>Fall</u>	<u>Spring</u>
GE-B	Social Studies (select)	-	3
GE-C	Humanities (select)	2	-
GE-D 152 or 153	Interpersonal Communication or Public Speaking	3	-
GE-E	Human Health and Well Being (select)	-	1
BIOL 307	Environmental Biology ^{1,2}	-	3
CHEM 222b	Introduction to Chemical Principles ^{2,4}	4	-
FL	Foreign Language ^{1,2}	4	4
MATH 140 or 150	Calculus ⁵	-	4
ZOOL 220b	Diversity of Animal Life (vertebrate)	4	-
		<u>17</u>	<u>15</u>

¹Approved substitutes for General Education.

²The 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.

³GE-D 107 or 1½ years of high school algebra is a prerequisite to Math 108 and 111.

⁴CHEM 115 is for students who have less than one year of high school chemistry. CHEM 222a,b will satisfy Zoology Department requirements for inorganic chemistry. For some students, CHEM 140a,b will be adequate.

⁵Computer Science 202-3, Math 282-3 or Educational Psychology 402-3 will also satisfy this requirement.

Zoology As A Major

Majors in zoology should consult with the Director of Undergraduate Studies in Zoology as soon as possible and arrange to develop an individualized curriculum under the supervision of a faculty advisor.

A major in zoology is an appropriate beginning for anyone planning to specialize in teaching or research in the biological sciences and allied fields such as conservation, environmental protection, fisheries or wildlife management, dentistry, medicine, or veterinary medicine. Most positions are available in schools, local, state, and federal government agencies, museums, hospitals, and chemical, instrument, food and drug industries.

Graduate degree programs leading to M.A., M.S., and Ph.D. are available.

Representative First Job Titles: Zoologist, Animal Breeding Technician, Animal Ecologist, Animal Husbandry Supervisor, Animal Taxonomist, Biological Warfare Technician, Genetics Technician, Medical Laboratory Assistant, Quality Control Laboratory Technician, Technical Library Operator, Entomologist, Physiologist, Wildlife Lab Assistant, Wildlife Refuge Manager, Parasitologist, Zoological Park Keeper, Mammalogist, Research Technician, Researcher, Reclamation Technician, Teacher, Technical Sales Representative.

INDEX

A

Academic Status, 37
Accelerated Programs, 31, 34
Accounting, 61
Accreditation, 9
Achieve, 24, 25
ACT/APP, 11
ACT Family Financial Statement, 22, 23
Activities, 24-26
Administration of Justice, 62
Administrative Sciences (see Management), 153
Admissions, 11
 College of Engineering & Technology, 15
 High School Requirements, 12, 13
 Formal Teacher Education Program, 14
 International Students, 16
 Transfer Requirements, 13, 14
Advance Placement Programs, 30
Advertising, 149
Advisement, 19
Advisement Centers, 20
Aerospace Studies (AFROTC), 58
Agribusiness Economics, 63
Agricultural Education, 64
Agricultural Education and Mechanization, 65, 66
Agriculture, General, 67
Agriculture, School of, 47
Allied Health Careers, 68
Animal Industries, 69, 70
Anthropology, 71
Apparel Design, 95
Application, Requests and Procedures, 11
Appointments, Advisement, 19
Architectural Technology, 72
Army Military Science, 59
Art Education, 73
Art History-Aesthetics, 73
Art, Studio, 73
Art, Studio-Crafts, 74
ASEP, 75, 76
Associate Degrees, 10
Athletic Scholarships, 27, 28
Athletic Training, 175
Athletics, 27, 28
Automotive Technology, 75, 76
Aviation Flight, 77
Aviation Maintenance Technology, 78
Aviation Management, 79
Avionics Technology, 80

B

Baccalaureate Degree, 10
Basic Skills, 16, 48
Biological Science, 81, 82
Botany, 83, 84
Business & Administration, 85
Business & Administration, College of, 48
Business Economics, 86
Business Education, 87, 88

C

Calendar, University, 3
Campus, 6
Campus Map, 4
Campus Visits, 3
Capstone Program, 34, 35
Career Counseling, 24
Career Development, 89
Career Planning & Placement Center, 24, 60
Catalog Requests, 225
Center for English as a Second Language, 25
Chemistry, 90, 91
Child and Family Services, 106
Cinema and Photography, 92
Civil Engineering, 93

Civil Engineering Technology, 118
Class Standing, 38
Classics, 94
CLEP, 31, 43
Clinical Center Achieve, 24, 25
Clothing and Textiles, 95, 96
College of Business & Administration, 48
College of Communications & Fine Arts, 49
College of Education, 50, 51
College of Engineering & Technology, 52
College of Human Resources, 53
College of Liberal Arts, 53
College of Science, 54
Commercial Graphics-Design, 97
Communications Disorders & Sciences, 98
Communications & Fine Arts, College of, 49
Computer Science, 99, 100
Computing Average, 37
Construction Technology (Building), 101
Consumer Economics & Family
 Management, 102, 103
Consumer Services in Business, 102
Cooperative Education, 33
Correspondence courses, credit for, 44
Costs, 21
Counseling and Testing, 24
Course Substitution, 42
Court Reporting, 205
Creative Writing, 122
Credit, Hours of, 38
Curricula, undergraduate, 10

D

D Work, Transferability of, 44
Dance (see Physical Education), 176
Degrees, 9, 10
Dental Hygiene, 104
Dental Technology, 105
Dentistry, Pre-Professional, 190
Departmental Organizations, 25, 47-55
Design, 106
Developmental courses, credit, 44
Dietetics, 125
Directory, University, 7
Disabled Student Services, 24

E

Early Admissions, 12
Early Childhood Education, 107, 108, 109
Economics, 86, 109
Education, College of, 50, 51
Electrical Engineering, 111
Electrical Engineering Technology, 118
Electronic Data Processing, 112
Electronics Management, 113
Electronics Technology, 114
Elementary Education, 115
Engineering, 116
Engineering Mechanics & Materials, 116
Engineering Technology, 118
Engineering and Technology, College of, 52
English, 119-122
English, Teacher Training, 119, 121
English as a Second Language, 25
Enrichment Programs, 30
Enrollment, 9
Entry Level Job Titles, 60
Environment, 9
Evaluation of Transfer Credits, 43
Evening and Weekend Program, 16
Exercise Science & Physical Fitness, 177
Expense, 21
Extension, credit for, 44
Extra-Curricular Activities, 25, 26
Faculty, 8

F

Faculty, 8
Family Financial Statement, 22, 23
Family Service Consultant, 103
Fees Payment, 21
Film, 92
Fire Science Management, 124
Finance, Financial Management and Financial Institutions, 123
Financial Assistance, 22, 23
Flight, 77
Food and Nutrition, 125-127
Foreign Languages (Teaching), 128
Foreign Students, 15, 16, 44
Forestry, 129-131
Fraternalities (see Social Organizations), 25
French, Non-Teaching, 132
French, Teaching, 128
Freshmen Admission Requirements, 12, 13

G

GED Applicants, 11, 13
General Academic Programs, (see Undergraduate Academic Services), 46
General Agriculture, 67
General Education, 39, 46
General Education Flexibility, 30, 32, 33
General Education for the Transfer Student, 39-42
General Information, 8, 9
 Degrees,
 Environment,
 University,
 Student Data,
 Personnel
General Studies, 39, 46
Geography, 133, 134
Geology, 135
German, Non-Teaching, 136
German, Teaching, 128
Government (see Political Science), 188, 189
Graduate School, 56
Graduation Requirements, 38
Greek (Classics), 94

H

Handicapped Student Services (see Disabled Student Services), 24
Health Care Management, 137
Health Education, 138, 139
High School Admission Requirements, 12
History, 140, 141
Home Economics Education, 142-145
Honors Work, 30, 33, 46
 Recognition, 30
Horticulture, 186
Hotel and Restaurant Administration (see Food and Nutrition), 126
Housing, 17, 18
 Information
 Policies
 Procedures
 Married Student Housing
Human Resources, College of, 53

I

Illinois Guaranteed Loan, 22, 23
Industrial Technology, 146, 147
Instructional Aids Work-Study, 22, 23
Intercollegiate Athletics, 27, 28
Interior Design, 148
International Students, 15, 16, 44
Intramurals, 26
ISSC, 22, 23

J

Job Titles-Entry Level, 60
Journalism, 149
Junior College Scholarship, 22, 23
Justice, Administration of, 62

L

Landscape Horticulture, 186
Language Arts (English & Reading), 150
Latin (Non-Teaching), 94
Latin (Teaching), 128
Law Enforcement, 62, 151
Law, Pre-Professional, 191
Law, School of, 57
Learning Disabled, 24, 25, 210
Liberal Arts, College of, 53
Linguistics, 152
Loans, 22, 23

M

Majors, 10
Management, 153
Map, Campus, 4
Map, Illinois Travel, 6
Marketing, 154
Married Student Housing, 17, 18
Mathematics, 155-157
Mechanical Engineering, 158
Mechanical Engineering Technology, 118
Medicine, Pre-Professional, 192
Medicine, School of, 57
Microbiology, 159
Military Experience Credit, 44
Mining Engineering, 160
Mining Technology, 147
Minors, 10
Motor Vehicles, 29
Mortuary Science and Funeral Services, 161
Music, 162-169

N

National Direct Student Loan, 22, 23
Need Analysis, ACT-FFS, 22, 23
Numerical Control, 218
Nursing, Pre-Professional, 193

O

Occupational Education, 170
Offices, 7, 20
Optometry, Pre-Professional, 194
Orientation, 25
Osteopathy, Pre-Professional, 192
Outdoor Recreation, 131, 201

P

Paralegal Studies, 171
Park and Community Recreation, 201
Pell Grant, 22, 23
Pharmacy, Pre-Professional, 195
Philosophy, 171
Photographic Production Technology, 173
Photojournalism, 92, 149
Photography, 92
Physical Education, 174-178
Physical Therapist Assistant, 179
Physical Therapy, Pre-Professional, 196
Physics, 180, 181
Physiology, 182
Plant and Soil Science, 183-187
Political Science, 188, 189
Pre-Dentistry, 190
Pre-Law, 191
Pre-Major Advisement, 46
Pre-Medicine, 192

Pre-Nursing, 193
 Pre-Optometry, 194
 Pre-Osteopathy, 192
 Pre-Pharmacy, 195
 Pre-Physical Therapy, 196
 Pre-professional Programs, 45
 President's Scholars, (see University Honors), 30, 33, 46
 Pre-Veterinary Medicine, 70, 197
 Probation, Academic, 37
 Professional Degrees, 9, 10
 Proficiency Examinations, 30, 31
 Project Achieve, 24, 25
 Psychology, 198
 Publications, 225
 Public Relations, 214

R

Radio - Television, 199
 Radiologic Technology, 68, 200
 Reading Education, 150
 Recreation, 201
 Regional and Non-Regional Accreditation, 43, 44
 Registration, 20
 Religious Studies, 202
 Repeating Courses, 44
 Residence Halls, 17, 18
 Respiratory Therapy, 68, 203
 Retailing, 96
 ROTC, 58, 59
 Russian, Non-Teaching, 204
 Russian, Teaching, 128

S

Satisfactory Progress, 22, 23, 37
 Scholarships, 22, 23
 Scholastic and Professional Honoraries, 26
 Scholastic Standards, 37
 School/College Relations, 12
 School of Agriculture, 47
 School of Law, 57
 School of Medicine, 57
 School of Technical Careers, 56
 School Speech Clinician, 98
 Science, College of, 54
 Secondary Education, 51
 Secretarial and Office Specialities, 205
 Semester Hours, 38
 Services, 24
 SIU Scholarships, 22
 Social Organizations, 25
 Social Studies, 206
 Social Work, 207
 Sociology, 208
 Sororities (see Social Organizations), 25
 Spanish, Non-Teaching, 209
 Spanish, Teaching, 128
 Special Education, 145, 178, 210
 Special Interest Groups, 25, 26
 Special Major, 34, 35
 Special Programs, 34-36
 Specialized Student Services (see Disabled Student Services), 24
 Speech Communication, 211-215
 Speech Clinician, 98
 Speech Pathology and Audiology, 98
 Student Data, 9
 Student Development, 25
 Suspension, Academic, 37

T

Teacher Education Program, 14, 50
 Technical Careers, 33, 56, 89
 Technical Careers, School of, 56
 Theater, 216
 Therapeutic Recreation, 201

Thermal and Environmental Engineering, 117
 Tool & Manufacturing Technology, 217, 218
 Touch of Nature, 26
 Transfer Admission Requirements, 13-15
 Transfer Student, 11
 Transcripts and Test Scores, 11, 43
 Travel Map, Illinois, 6
 Travel Study, 35, 36
 Tuition and Fees, 21

U

Unclassified Adults, 16
 Undecided Major, 46
 Units, Academic, 7, 45-57
 University, 8
 University Honors, 30, 33, 46
 University Studies Degree, 34, 46, 219

V

Veterans-
 Admissions, 16
 Benefits, 22, 23
 Credit, 44
 Veterinary Medicine, Pre-Professional 69, 196
 Vocational-Technical Institute (see School of Technical Careers), 56

W

Wildlife (See Zoology), 221
 Women's Services, 24
 Work Experience Credit, 32
 Work Study, 22, 23

Z

Zoology, 220, 221

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 Publications.

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 Catalog

This pictorial and factual booklet contains information and guidelines for the prospective student as well as an application for admission. It is distributed at college days, night programs, and in correspondence. Quantities will be sent on request. Write University Publications 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

